



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAI 90/94/290 Office Phone Number, if available: _____

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

I-90/I-94 between Grand Avenue and 14th Street (ISGS #2615V2-1)

City: Chicago State: IL Zip Code: 60607

County: Cook Township: NA

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

Latitude: 41.87698 Longitude: -87.64575
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 0316325541 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 4,022

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

See attachment A for locations sampled within the construction zone at ISGS #2233V2-1 (ROW). Refer to PSI Report for ISGS #2615V2-1 (ROW) including Table 4-3, and Figures 4-2 through 4-12.

- 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 J212292-1, J212399-1, J212467-1, J212658-1, and J212721-1.

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

I, Tom Campbell (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: WSP USA
 Street Address: 115 W Washington St., Suite 1270S
 City: Indianapolis State: IN Zip Code: 46204
 Phone: (317) 972-1706

Tom Campbell
 Printed Name:

Tom Campbell

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

03/22/2022

Date:



Expires 11/30/2023

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

Attachment A

2615V2-01-B02

2615V2-01-B03

2615V2-01-B04

2615V2-01-B05

2615V2-01-B10

2615V2-01-B11

2615V2-01-B12

2615V2-01-B15

2615V2-01-B16

2615V2-01-B17

2615V2-01-B19

2615V2-01-B20

2615V2-01-B21

2615V2-01-B26

2615V2-01-B28

2615V2-01-B30

2615V2-01-B31

2615V2-01-B32

2615V2-01-B34

2615V2-01-B35

2615V2-01-B36

2615V2-01-B39

2615V2-01-B40

2615V2-01-B41

2615V2-01-B42

2615V2-01-B43





2615V2-01-B45

Analytical Data Summary
PTB #196-002; Work Order 08 - IDOT Job # D-91-441-20

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.
- † = 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 #196-002; Work Order 08 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-1 (ROW)				Comparison Criteria						
	2615V2-01-B02		2615V2-01-B03	2615V2-01-B04	MACs			TACO			
BORING	2615V2-01-B02 (0-2)		2615V2-01-B03 (0-2)	2615V2-01-B04 (0-2)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
SAMPLE	Soil	Soil	Soil	Soil							
MATRIX	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-2	0-2	0-2	0-2							
pH	8.6	8.8	7.6	8.0							
PID (meter units)	--	--	--	--							
VOCs (mg/kg)											
2-Butanone (MEK)	ND	U	ND	U	ND	U	ND	U	--	--	--
Acetone	ND	U	ND	U	ND	U	ND	U	25	--	--
SVOCs (mg/kg)											
2-Methylnaphthalene	0.023	J	ND	U	ND	U	0.033	J	--	--	--
Acenaphthene	0.019	J	0.011	J	0.013	J	0.067		570	--	--
Acenaphthylene	0.014	J	0.012	J	ND	U	0.045		--	--	--
Anthracene	0.061		0.049		0.045		0.22		12,000	--	--
Benzo(a)anthracene	0.21		0.21		0.20		0.75		0.9	1.8	1.1
Benzo(a)pyrene	0.23	†	0.24	†	0.20	†	0.83	J	0.09	2.1	1.3
Benzo(b)fluoranthene	0.37		0.37		0.25		1.2	J	0.9	2.1	1.5
Benzo(g,h,i)perylene	0.078		0.067		0.048		0.21	J	--	--	--
Benzo(k)fluoranthene	0.14		0.13		0.11		0.49	J	9	--	--
Bis(2-ethylhexyl) phthalate	ND	U	ND	U	ND	U	ND	U	46	--	--
Carbazole	ND	U	ND	U	ND	U	ND	U	0.6	--	--
Chrysene	0.23		0.24		0.22		0.79		88	--	--
Dibenz(a,h)anthracene	0.024	J	0.022	J	0.016	J	0.082	J	0.09	0.42	0.2
Dibenzofuran	ND	U	ND	U	ND	U	ND	U	--	--	--
Di-n-butyl phthalate	ND	U	ND	U	ND	U	ND	U	2,300	--	--
Fluoranthene	0.44		0.44		0.35		1.5		3,100	--	--
Fluorene	0.023	J	0.013	J	0.015	J	0.075		560	--	--
Indeno(1,2,3-cd)pyrene	0.073		0.065		0.044		0.25	J	0.9	1.6	0.9
Naphthalene	0.041		ND	U	ND	U	0.028	J	1.8	--	--
N-Nitrosodiphenylamine	ND	U	ND	U	ND	U	ND	U	1	--	--
Phenanthrene	0.28		0.21		0.24		0.89		--	--	--
Pyrene	0.42	J	0.41	J	0.46	J	1.8		2,300	--	--
Inorganics (mg/kg)											
Antimony	0.33	J	0.28	J	0.36	J	0.33	J	5	--	--
Arsenic	3.8	J	4.3		5.3		3.5		11.3	13	--
Barium	28		32		37		35		1,500	--	--
Beryllium	0.35		0.37		0.80		0.35		22	--	--
Boron	6.1	J	6.0		10		8.4		40	--	--
Cadmium	ND	U	ND	U	ND	U	0.39		5.2	--	--
Calcium	68,000		59,000		23,000		130,000		--	--	--
Chromium	9.2		10		16		7.6		21	--	--
Cobalt	5.4		7.5		13		4.1		20	--	--
Copper	17		19		26		19		2,900	--	--
Iron	8,600		9,200		17,000	†m	8,500		15,000	15,900	--
Lead	34		34		16		73		107	--	--
Magnesium	27,000		25,000		14,000		81,000		325,000	--	--
Manganese	310		360		220		200		630	636	--
Mercury	0.14		0.14		0.077		0.10		0.89	--	--
Nickel	13		14		35		10		100	--	--
Potassium	930	J	1,000		2,500		750		--	--	--
Selenium	ND	UJ	ND	U	ND	U	ND	U	1.3	--	--
Silver	0.12	J	0.15	J	0.23	J	0.087	J	4.4	--	--
Sodium	270		260		260		160		--	--	--
Thallium	ND	U	ND	U	0.77		ND	U	2.6	--	--
Vanadium	11		12		15		8.3		550	--	--
Zinc	64		67		48		92		5,100	--	--
TCLP Metals (mg/L)											
Barium	0.48	J	0.48	J	0.59		0.52		--	--	--
Boron	0.056	J	0.057	J	0.073	J	0.052	J	--	--	--
Cadmium	0.0020	J	0.0023	J	ND	U	0.0033	J	--	--	--
Chromium	ND	U	ND	U	ND	U	ND	U	--	--	--
Cobalt	ND	U	ND	U	0.013	J	ND	U	--	--	--
Iron	ND	U	ND	U	ND	U	ND	U	--	--	--
Lead	0.0076	L	ND	U	ND	U	0.0098	L	--	--	--
Manganese	0.87	L	0.95	L	1.2	L	0.80	L	--	--	--
Mercury	ND	U	ND	U	ND	U	ND	U	--	--	--
Nickel	ND	U	ND	U	0.015	J	ND	U	--	--	--
Zinc	0.081	J	0.083	J	0.073	J	0.15	J	--	--	--
SPLP Metals (mg/L)											
Cadmium	NA		NA		NA		NA		--	--	--
Lead	0.17	L	NA		NA		0.18	L	--	--	--
Manganese	0.38	L	0.55	L	0.99	L	0.20	L	--	--	--
Nickel	NA		NA		NA		NA		--	--	--

PTB #196-002; Work Order 08 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-1 (ROW)				Comparison Criteria					
	2615V2-01-B05	2615V2-01-B10	2615V2-01-B11	2615V2-01-B12	MACs			TACO		
BORING	2615V2-01-B05 (0-3)	2615V2-01-B10 (0-3)	2615V2-01-B11 (0-3)	2615V2-01-B12 (0-2)						
SAMPLE	Soil	Soil	Soil	Soil						
MATRIX	0-3	0-3	0-3	0-2						
DEPTH (feet)	8.6	7.2	7.8	7.3						
pH	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
PID (meter units)										
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
2-Methylnaphthalene	0.0071 J	ND U	0.16	ND U	--	--	--	--	--	--
Acenaphthene	0.014 J	0.0077 J	0.21	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.015 J	ND U	0.031 J	ND U	--	--	--	--	--	--
Anthracene	0.048	0.042	0.42	0.014 J	12,000	0.042	--	23,000	610,000	--
Benzo(a)anthracene	0.16	0.059	0.78	0.058	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.18 †	0.065	0.82 †	0.069	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.29	0.092	1.3 †	0.10	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.047	ND U	0.087	0.026 J	--	--	--	--	--	--
Benzo(k)fluoranthene	0.085	0.039 J	0.47	0.044	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND UJ	ND UJ	ND U	46	--	--	46	4,100	--
Carbazole	ND U	ND U	0.21	ND U	0.6	--	--	32	6,200	--
Chrysene	0.18	0.067	0.79	0.071	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.020 J	ND U	0.042	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	0.20	ND U	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--
Fluoranthene	0.32	0.28	1.8	0.12	3,100	--	--	3,100	82,000	--
Fluorene	0.023 J	0.0073 J	0.29	ND U	560	--	--	3100	82000	--
Indeno(1,2,3-cd)pyrene	0.061	0.016 J	0.12	0.019 J	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.0077 J	0.0084 J	0.27	ND U	1.8	--	--	170	1.8	--
N-Nitrosodiphenylamine	ND U	ND U	ND U	ND U	1	--	--	130	25,000	--
Phenanthrene	0.22	0.21	1.8	0.070	--	--	--	--	--	--
Pyrene	0.35	0.13	1.7	0.10	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	ND U	0.70 J	0.62 J	0.61 J	5	--	--	31	82	--
Arsenic	4.0	6.6	5.9	6.7 J	11.3	13	--	13	61	--
Barium	18	84	65	91	1,500	--	--	5,500	14,000	--
Beryllium	0.29	0.78	0.67	0.81	22	--	--	160	410	--
Boron	4.5	7.0	8.4	5.9 J	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	66,000	18,000	50,000	8,200 J	--	--	--	--	--	--
Chromium	7.3	18	16	19	21	--	--	230	690	--
Cobalt	5.3	10	6.8	11	20	--	--	4,700	12,000	--
Copper	10	16	15	15	2,900	--	--	2,900	8,200	--
Iron	8,800	17,000 †m	14,000	18,000 †m	15,000	15,900	--	--	--	--
Lead	25	21	21	24	107	--	--	400	700	--
Magnesium	27,000	11,000	24,000	6,400 J	325,000	--	--	--	730,000	--
Manganese	310	540	310	550 J	630	636	--	1,600	4,100	--
Mercury	0.033	0.033	0.035	0.076	0.89	--	--	10	0.1	--
Nickel	11	19	15	18	100	--	--	1,600	4,100	--
Potassium	650	1,900	1,700	1,800 J	--	--	--	--	--	--
Selenium	ND U	0.70	ND U	0.45 J	1.3	--	--	390	1,000	--
Silver	0.086 J	0.32	0.24 J	0.30 J	4.4	--	--	390	1,000	--
Sodium	150	180	140	57 J	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	10	25	22	27	550	--	--	550	1,400	--
Zinc	47	59	48	55	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.35 J	0.57	0.63	0.47 J	--	--	--	--	--	2
Boron	0.056 J	0.076 J	0.090 J	0.056 J	--	--	--	--	--	2
Cadmium	0.0026 J	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	0.21 J	ND U	0.29 J	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.1 L	1.1 L	0.89 L	1.6 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	ND U	ND U	ND U	0.012 J	--	--	--	--	--	0.1
Zinc	0.11 J	0.053 J	0.083 J	0.055 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.19 L	0.079	ND U	0.55 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 08 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-1 (ROW)				Comparison Criteria					
	2615V2-01-B15	2615V2-01-B16	2615V2-01-B17	2615V2-01-B19	MACs			TACO		
BORING	2615V2-01-B15 (0-3)	2615V2-01-B16 (0-1)	2615V2-01-B17 (0-3)	2615V2-01-B19 (0-3)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil						
MATRIX	0-3	0-1	0-3	0-3						
DEPTH (feet)	7.8	8.1	8.0	7.7						
pH	--	--	--	--						
PID (meter units)										
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
2-Methylnaphthalene	0.024 J	0.010 J	0.034 J	0.059 J	--	--	--	--	--	--
Acenaphthene	0.020 J	0.22	0.080	0.023 J	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	0.0057 J	0.014 J	ND U	--	--	--	--	--	--
Anthracene	0.0063 J	0.033 J	0.20	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.0049 J	0.11	0.42	0.011 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	0.11 †	0.43 †	ND UJ	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	0.16	0.63	ND UJ	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.012 J	0.040	0.13	0.019 J	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	0.072	0.22	ND UJ	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	0.11 J	ND UJ	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.028 J	0.11	0.45	0.041 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	0.011 J	0.044	ND UJ	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	0.18 J	0.057 J	ND U	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--
Fluoranthene	0.013 J	0.29	1.1	0.017 J	3,100	--	--	3,100	82,000	--
Fluorene	0.0093 J	0.12	0.086	ND U	560	--	--	3100	82000	--
Indeno(1,2,3-cd)pyrene	ND U	0.041	0.14	ND UJ	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.017 J	0.0082 J	0.039	0.022 J	1.8	--	--	170	1.8	--
N-Nitrosodiphenylamine	ND U	ND U	ND U	ND U	1	--	--	130	25,000	--
Phenanthrene	0.11	0.17	0.82	0.16	--	--	--	--	--	--
Pyrene	0.023 J	0.24	0.93	0.047	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.39 J	0.57 J	ND U	0.81 J	5	--	--	31	82	--
Arsenic	9.2	7.0	5.2	9.8	11.3	13	--	13	61	--
Barium	31	74	39	39	1,500	--	--	5,500	14,000	--
Beryllium	0.78	0.88	0.62	0.62	22	--	--	160	410	--
Boron	13	7.6	13	15	40	--	--	16,000	41,000	--
Cadmium	ND U	0.36	0.26	ND U	5.2	--	--	78	200	--
Calcium	42,000	34,000	130,000	56,000	--	--	--	--	--	--
Chromium	14	18	14	16	21	--	--	230	690	--
Cobalt	12	9.1	5.3	15	20	--	--	4,700	12,000	--
Copper	30	30	18	38	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	18,000 †m	12,000	23,000 †m	15,000	15,900	--	--	--	--
Lead	16	30	42	18	107	--	--	400	700	--
Magnesium	25,000	20,000	79,000	27,000	325,000	--	--	--	730,000	--
Manganese	290	380	280	430	630	636	--	1,600	4,100	--
Mercury	0.024	0.030	0.063	0.027	0.89	--	--	10	0.1	--
Nickel	32	23	15	41	100	--	--	1,600	4,100	--
Potassium	2,400	1,800	1,400	3,000	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	0.56	1.3	--	--	390	1,000	--
Silver	0.29 J	0.30 J	ND U	0.079 J	4.4	--	--	390	1,000	--
Sodium	270	150	250 J	300	--	--	--	--	--	--
Thallium	0.76 J	ND U	ND U	0.45 J	2.6	--	--	6.3	160	--
Vanadium	15	20	12	18	550	--	--	550	1,400	--
Zinc	39	72	48	53	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.48 J	0.51	0.27 J	0.42 J	--	--	--	--	--	2
Boron	0.069 J	0.069 J	0.098 J	0.069 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	0.057	ND U	ND U	0.045	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.9 L	0.76 L	1.1 L	2.0 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.14 L	ND U	0.017 J	0.11 L	--	--	--	--	--	0.1
Zinc	0.034 J	0.027 J	0.041 J	0.028 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.024 J	0.34 L	ND U	0.035	--	--	--	--	--	0.15
Nickel	ND U	NA	NA	ND U	--	--	--	--	--	0.1

PTB #196-002; Work Order 08 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-1 (ROW)				Comparison Criteria					
	2615V2-01-B20	2615V2-01-B21	2615V2-01-B26	2615V2-01-B28	MACs			TACO		
BORING	2615V2-01-B20 (0-3)	2615V2-01-B21 (0-1)	2615V2-01-B26 (0-3)	2615V2-01-B28 (0-1)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil						
MATRIX	0-3	0-1	0-3	0-1						
DEPTH (feet)	7.6	7.7	8.0	7.4						
pH	--	--	--	--						
PID (meter units)										
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
2-Methylnaphthalene	0.040 J	0.015 J	0.056 J	0.022 J	--	--	--	--	--	--
Acenaphthene	0.022 J	0.038 J	0.034 J	0.047	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	0.012 J	ND U	0.015 J	--	--	--	--	--	--
Anthracene	ND U	0.095	0.045	0.083	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	0.44	0.13	0.26	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND UJ	0.78 J †	0.14 †	0.30 †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND UJ	1.2 J †	0.21	0.45	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.015 J	0.24 J	0.058	0.051	--	--	--	--	--	--
Benzo(k)fluoranthene	ND UJ	0.40 J	0.071	0.16	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND UJ	ND U	ND U	ND UJ	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.036 J	0.54	0.16	0.30	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND UJ	0.083 J	0.015 J	0.018 J	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--
Fluoranthene	ND U	0.71	0.31	0.57	3,100	--	--	3,100	82,000	--
Fluorene	ND U	0.032 J	0.023 J	0.043	560	--	--	3100	82000	--
Indeno(1,2,3-cd)pyrene	ND UJ	0.24 J	0.053	0.054	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.014 J	0.015 J	0.038 J	0.018 J	1.8	--	--	170	1.8	--
N-Nitrosodiphenylamine	ND U	ND U	0.12 J	ND U	1	--	--	130	25,000	--
Phenanthrene	0.14	0.39	0.32	0.47	--	--	--	--	--	--
Pyrene	0.030 J	1.2	0.36	0.60	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.50 J	0.56 J	0.49 J	0.60 J	5	--	--	31	82	--
Arsenic	9.3	6.2	6.9	7.5	11.3	13	--	13	61	--
Barium	37	67	38	49	1,500	--	--	5,500	14,000	--
Beryllium	0.61	0.54	0.63	0.75	22	--	--	160	410	--
Boron	14	12	17	15	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	52,000	86,000	58,000	64,000	--	--	--	--	--	--
Chromium	17	18	18	18	21	--	--	230	690	--
Cobalt	14	9.7	12	11	20	--	--	4,700	12,000	--
Copper	33	26	30	32	2,900	--	--	2,900	8,200	--
Iron	21,000 †m	19,000 †m	19,000 †m	17,000 †m	15,000	15,900	--	--	--	--
Lead	15	34	19	81	107	--	--	400	700	--
Magnesium	24,000	49,000	24,000	31,000	325,000	--	--	--	730,000	--
Manganese	380	330	300	290	630	636	--	1,600	4,100	--
Mercury	0.020	0.039	0.051	0.16	0.89	--	--	10	0.1	--
Nickel	38	25	33	29	100	--	--	1,600	4,100	--
Potassium	3,000	2,000	3,100	2,400	--	--	--	--	--	--
Selenium	0.43 J	ND U	ND U	0.34 J	1.3	--	--	390	1,000	--
Silver	ND U	ND U	0.11 J	0.27 J	4.4	--	--	390	1,000	--
Sodium	330	370	390	530	--	--	--	--	--	--
Thallium	0.40 J	0.33 J	0.39 J	ND U	2.6	--	--	6.3	160	--
Vanadium	18	20	19	18	550	--	--	550	1,400	--
Zinc	54	73	47	80	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.54	0.38 J	0.21 J	0.19 J	--	--	--	--	--	2
Boron	0.066 J	0.091 J	0.088 J	0.093 J	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	0.0025 J	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.038	ND U	0.015 J	0.036	--	--	--	--	--	1
Iron	ND U	ND U	ND U	0.24 J	--	--	--	--	--	5
Lead	ND U	ND U	ND U	0.012 L	--	--	--	--	--	0.0075
Manganese	1.9 L	1.5 L	1.4 L	2.8 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.091	0.012 J	0.039	0.041	--	--	--	--	--	0.1
Zinc	ND U	0.043 J	0.034 J	0.097 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	ND U	--	--	--	--	--	0.0075
Manganese	0.039	0.037	ND U	0.024 J	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 08 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-1 (ROW)				Comparison Criteria					
	2615V2-01-B30	2615V2-01-B31	2615V2-01-B32	2615V2-01-B34	MACs			TACO		
BORING	2615V2-01-B30 (0-3)	2615V2-01-B31 (0-1)	2615V2-01-B32 (0-1)	2615V2-01-B34 (0-3)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil						
MATRIX	0-3	0-1	0-1	0-3						
DEPTH (feet)	9.0	8.9	8.7	9.0						
pH	--	--	--	--						
PID (meter units)										
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	0.0035 J	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	0.038	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	ND U	ND U	0.14	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	0.033 J	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	0.0060 J	0.019 J	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.018 J	0.021 J	0.026 J	0.043	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.029 J	0.024 J	ND U	ND UJ	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.022 J	0.037 J	0.045	ND UJ	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.016 J	ND UJ	0.014	ND UJ	--	--	--	--	--	--
Benzo(k)fluoranthene	0.028 J	0.016 J	ND U	ND UJ	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND UJ	ND U	ND UJ	46	--	--	46	4,100	--
Carbazole	ND UJ	ND U	ND UJ	ND U	0.6	--	--	32	6,200	--
Chrysene	0.026 J	0.027 J	0.036	0.090	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND UJ	ND UJ	ND UJ	ND UJ	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	0.048 J	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--
Fluoranthene	0.036	0.037	0.053	0.089	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	0.018 J	560	--	--	3100	82000	--
Indeno(1,2,3-cd)pyrene	0.016 J	ND UJ	0.019 J	ND UJ	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	0.057	1.8	--	--	170	1.8	--
N-Nitrosodiphenylamine	ND U	ND U	ND U	ND U	1	--	--	130	25,000	--
Phenanthrene	0.022 J	0.022 J	0.029 J	0.28	--	--	--	--	--	--
Pyrene	0.055	0.046	0.063	0.13	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.24 J	0.27 J	0.28 J	0.55 J	5	--	--	31	82	--
Arsenic	1.4	1.6	3.0	6.6	11.3	13	--	13	61	--
Barium	7.5	11	9.7	36	1,500	--	--	5,500	14,000	--
Beryllium	0.17 J	0.27	0.20	0.68	22	--	--	160	410	--
Boron	7.3	12	10	15	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	100,000	200,000	210,000	110,000	--	--	--	--	--	--
Chromium	7.1	6.2	ND U	14	21	--	--	230	690	--
Cobalt	2.1	1.5	2.3	9.9	20	--	--	4,700	12,000	--
Copper	4.6	5.6	5.9	28	2,900	--	--	2,900	8,200	--
Iron	4,900	5,000	5,400	18,000 †m	15,000	15,900	--	--	--	--
Lead	4.7	4.5	8.8	19	107	--	--	400	700	--
Magnesium	56,000	110,000	98,000	56,000	325,000	--	--	--	730,000	--
Manganese	120	200	180	250	630	636	--	1,600	4,100	--
Mercury	ND U	ND U	0.013 J	0.029	0.89	--	--	10	0.1	--
Nickel	5.9	5.1	6.1	26	100	--	--	1,600	4,100	--
Potassium	530	580	660	2,300	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	0.21 J	4.4	--	--	390	1,000	--
Sodium	1,100	270	800	560	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	7.4	5.0	6.4	15	550	--	--	550	1,400	--
Zinc	19	15	17	45	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.18 J	0.094 J	0.14 J	0.34 J	--	--	--	--	--	2
Boron	0.071 J	0.063 J	0.064 J	0.11 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	0.012 J	0.014 J	0.022 J	0.037	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.88 L	0.63 L	1.3 L	1.7 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.013 J	0.011 J	0.018 J	0.084	--	--	--	--	--	0.1
Zinc	0.057 J	0.095 J	0.033 J	0.026 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	ND U	ND U	ND U	ND U	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 08 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-1 (ROW)				Comparison Criteria					
	2615V2-01-B35	2615V2-01-B36	2615V2-01-B39	2615V2-01-B40	MACs			TACO		
BORING	2615V2-01-B35 (0-3)	2615V2-01-B36 (0-1)	2615V2-01-B39 (0-3)	2615V2-01-B40 (0-2.5)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil						
MATRIX	0-3	0-1	0-3	0-2.5						
DEPTH (feet)	7.5	7.8	6.7	7.8						
pH	--	--	--	--						
PID (meter units)										
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
2-Methylnaphthalene	0.040 J	0.038 J	0.033 J	0.018 J	--	--	--	--	--	--
Acenaphthene	ND U	0.10	0.047	0.055	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	0.056	0.018 J	0.014 J	--	--	--	--	--	--
Anthracene	ND U	0.35	0.082	0.13	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	1.0 †	0.27	0.41	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND UJ	1.0 †	0.27 †	0.49 †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND UJ	1.4 †	0.41	0.75	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	0.32	0.087	0.15	--	--	--	--	--	--
Benzo(k)fluoranthene	ND UJ	0.58	0.15	0.27	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	0.12 J	46	--	--	46	4,100	--
Carbazole	ND UJ	0.12 J	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.030 J	0.99	0.28	0.47	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND UJ	0.096 †	0.028 J	0.047	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	0.066 J	ND U	ND U	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--
Fluoranthene	ND U	2.5	0.62	1.2	3,100	--	--	3,100	82,000	--
Fluorene	ND U	0.14	0.046	0.054	560	--	--	3100	82,000	--
Indeno(1,2,3-cd)pyrene	ND UJ	0.35	0.11	0.17	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	0.036 J	0.055	0.030 J	1.8	--	--	170	1.8	--
N-Nitrosodiphenylamine	0.089 J	ND U	ND U	ND U	1	--	--	130	25,000	--
Phenanthrene	0.16	1.5	0.38	0.68	--	--	--	--	--	--
Pyrene	0.031 J	1.8	0.54	0.96	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.61 J	0.62 J	0.62 J	0.58 J	5	--	--	31	82	--
Arsenic	8.8	6.1	7.4	6.6	11.3	13	--	13	61	--
Barium	30	68	57	85	1,500	--	--	5,500	14,000	--
Beryllium	0.77	0.61	0.69	0.78	22	--	--	160	410	--
Boron	13	7.0	9.1	5.3	40	--	--	16,000	41,000	--
Cadmium	ND U	0.49	0.44	0.55	5.2	--	--	78	200	--
Calcium	44,000	66,000	56,000	12,000	--	--	--	--	--	--
Chromium	16	17	21	21	21	--	--	230	690	--
Cobalt	14	8.6	10	11	20	--	--	4,700	12,000	--
Copper	36	28	37	24	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	14,000	16,000 †m	17,000 †m	15,000	15,900	--	--	--	--
Lead	16	92	87	82	107	--	--	400	700	--
Magnesium	20,000	27,000	25,000	7,400	325,000	--	--	--	730,000	--
Manganese	280	290	360	400	630	636	--	1,600	4,100	--
Mercury	0.029	0.057	0.17	0.088 J	0.89	--	--	10	0.1	--
Nickel	37	23	27	24	100	--	--	1,600	4,100	--
Potassium	2,500	1,300	1,800	1,600	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	0.39 J	1.3	--	--	390	1,000	--
Silver	0.33	0.27 J	0.28 J	0.41	4.4	--	--	390	1,000	--
Sodium	260	270	180	120	--	--	--	--	--	--
Thallium	0.36 J	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	17	16	22	21	550	--	--	550	1,400	--
Zinc	46	130	98	92	5,100	--	--	23,000	61,000	--
TLCL Metals (mg/L)										
Barium	0.38 J	0.61	0.28 J	0.51	--	--	--	--	--	2
Boron	0.074 J	0.099 J	0.080 J	0.085 J	--	--	--	--	--	2
Cadmium	ND U	0.0028 J	0.0051 L	0.0058 L	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.037	ND U	0.016 J	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	0.0093 L	0.047 L	--	--	--	--	--	0.0075
Manganese	1.9 L	1.1 L	1.7 L	2.6 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.089	ND U	0.023 J	0.016 J	--	--	--	--	--	0.01
Zinc	0.037 J	0.088 J	0.10 J	0.19 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	ND U	ND U	--	--	--	--	--	0.005
Lead	NA	NA	ND U	0.083 L	--	--	--	--	--	0.0075
Manganese	0.030	0.27 L	ND U	0.26 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 08 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-1 (ROW)				Comparison Criteria					
	2615V2-01-B41	2615V2-01-B42	2615V2-01-B43	2615V2-01-B45	MACs			TACO		
BORING	2615V2-01-B41 (0-3)	2615V2-01-B42 (0-3)	2615V2-01-B43 (0-2)	2615V2-01-B45 (0-1)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil						
MATRIX	0-3	0-3	0-2	0-1						
DEPTH (feet)	7.6	7.3	7.6	7.1						
pH	--	--	--	--						
PID (meter units)										
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	0.045 J	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	0.057	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	0.047	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	0.19	0.014 J	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.0089 J	0.65	0.037 J	0.0095 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.012 J	0.70 †	0.038 J	0.012 J	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.021 J	1.1 †	0.064	0.016 J	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	0.21	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	0.41	0.023 J	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	0.068 J	ND U	ND U	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.012 J	0.70	0.042	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	0.076	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	0.047 J	ND U	ND U	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--
Fluoranthene	0.018 J	1.5	0.087	0.020 J	3,100	--	--	3,100	82,000	--
Fluorene	ND U	0.061	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	0.23	0.012 J	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	0.037	ND U	ND U	1.8	--	--	170	1.8	--
N-Nitrosodiphenylamine	ND U	ND U	ND U	ND U	1	--	--	130	25,000	--
Phenanthrene	0.0072 J	0.85	0.046	0.0083 J	--	--	--	--	--	--
Pyrene	0.016 J	1.2	0.077	0.016 J	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.65 J	0.59 J	0.67 J	0.64 J	5	--	--	31	82	--
Arsenic	6.4	7.2	7.1	7.3	11.3	13	--	13	61	--
Barium	46	73	87	94	1,500	--	--	5,500	14,000	--
Beryllium	0.75	0.63	0.79	0.98	22	--	--	160	410	--
Boron	8.5	10	3.4	3.2 J	40	--	--	16,000	41,000	--
Cadmium	ND U	0.51	ND U	ND U	5.2	--	--	78	200	--
Calcium	45,000	76,000	13,000	3,200	--	--	--	--	--	--
Chromium	15	17	17	20	21	--	--	230	690	--
Cobalt	14	9.2	12	17	20	--	--	4,700	12,000	--
Copper	31	46	14	16	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	15,000	18,000 †m	22,000 †m	15,000	15,900	--	--	--	--
Lead	16	230 †	21	25	107	--	--	400	700	--
Magnesium	16,000	31,000	9,200	3,800	325,000	--	--	--	730,000	--
Manganese	330	310	500	510	630	636	--	1,600	4,100	--
Mercury	0.028	0.17	0.036	0.063	0.89	--	--	10	0.1	--
Nickel	37	27	21	25	100	--	--	1,600	4,100	--
Potassium	1,900	1,600	1,500	1,500	--	--	--	--	--	--
Selenium	ND U	ND U	0.38 J	ND U	1.3	--	--	390	1,000	--
Silver	0.26 J	0.32	0.26 J	0.39	4.4	--	--	390	1,000	--
Sodium	100	470	220	62 J	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	15	16	23	26	550	--	--	550	1,400	--
Zinc	49	160	55	57	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.91	0.36 J	0.47 J	0.31 J	--	--	--	--	--	2
Boron	0.11 J	0.085 J	0.052 J	ND U	--	--	--	--	--	2
Cadmium	ND U	0.0039 J	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	0.035	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	0.040 L	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.4 L	2.5 L	0.31 L	0.53 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	ND U	0.032	ND U	ND U	--	--	--	--	--	0.1
Zinc	0.081 J	0.18 J	0.057 J	0.045 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	ND U	NA	NA	--	--	--	--	--	0.0075
Manganese	0.071	ND U	0.37 L	0.64 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212292-1

Client Project/Site: IDOT - 196-002-WO008 Byrne Interchange

For:

WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
2/28/2022 10:24:44 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Job ID: 500-212292-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212292-1

Receipt

The samples were received on 2/14/2022 5:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method 8260B: Surrogate recovery for the following sample was outside control limits: 2615V2-01-B18 (0-2) (500-212292-4). Evidence of matrix interference is present (high sample pH); therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Surrogate recovery for the following samples were outside the upper control limit: 2615V2-01-B17 (0-3) (500-212292-1) and 2615V2-01-B15 (0-3) (500-212292-2). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: 2615V2-01-B17 (0-3) (500-212292-1), 2615V2-01-B15 (0-3) (500-212292-2) and 2615V2-01-B16 (0-1) (500-212292-3). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 643739 recovered outside control limits for 2-Hexanone. 2615V2-01-B17 (0-3) (500-212292-1), 2615V2-01-B15 (0-3) (500-212292-2) and 2615V2-01-B16 (0-1) (500-212292-3)

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 643739 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported. 2615V2-01-B17 (0-3) (500-212292-1), 2615V2-01-B15 (0-3) (500-212292-2) and 2615V2-01-B16 (0-1) (500-212292-3)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-643939 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], Hexachlorocyclopentadiene and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

Method 6010B: The method blank for preparation batch 500-643842 and analytical batch 500-644508 contained Chromium 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.

Method 6010B: The method blank for preparation batch 500-643842 and analytical batch 500-644559 contained Iron 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.

Method 6010B: The method blank for preparation batch 500-643842 and analytical batch 500-644565 contained Chromium 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

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Job ID: 500-212292-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

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

Organic Prep

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

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B17 (0-3)

Lab Sample ID: 500-212292-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.039		0.038	0.0060	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.034	J	0.078	0.0071	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.014	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.080		0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.057	J	0.19	0.045	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.086		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.82		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.20		0.038	0.0065	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.1		0.038	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.93		0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.42		0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.45		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.11	J	0.19	0.071	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.63		0.038	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.22		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.43		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.044		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Arsenic	5.2		1.1	0.36	mg/Kg	1	✳	6010B	Total/NA
Barium	39		1.1	0.12	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.62	B	0.42	0.099	mg/Kg	1	✳	6010B	Total/NA
Boron	13		5.3	0.49	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.26	B	0.21	0.038	mg/Kg	1	✳	6010B	Total/NA
Calcium	130000	B	110	18	mg/Kg	5	✳	6010B	Total/NA
Chromium	14	B	5.3	2.6	mg/Kg	5	✳	6010B	Total/NA
Cobalt	5.3		0.53	0.14	mg/Kg	1	✳	6010B	Total/NA
Copper	18		1.1	0.30	mg/Kg	1	✳	6010B	Total/NA
Iron	12000	B	110	55	mg/Kg	5	✳	6010B	Total/NA
Lead	42		0.53	0.24	mg/Kg	1	✳	6010B	Total/NA
Magnesium	79000	B	53	26	mg/Kg	5	✳	6010B	Total/NA
Manganese	280	B	1.1	0.15	mg/Kg	1	✳	6010B	Total/NA
Nickel	15		1.1	0.31	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		270	94	mg/Kg	5	✳	6010B	Total/NA
Sodium	250	J	530	78	mg/Kg	5	✳	6010B	Total/NA
Vanadium	12	B	0.53	0.13	mg/Kg	1	✳	6010B	Total/NA
Zinc	48		2.1	0.93	mg/Kg	1	✳	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.098	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.041	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.063		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B15 (0-3)

Lab Sample ID: 500-212292-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.017	J	0.034	0.0053	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.024	J	0.069	0.0063	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.020	J	0.034	0.0062	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B15 (0-3) (Continued)

Lab Sample ID: 500-212292-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.0093	J	0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0063	J	0.034	0.0057	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.034	0.0063	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.034	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0049	J	0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.034	0.0093	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.012	J	0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.39	J	1.8	0.35	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.2		0.90	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.90	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78	B	0.36	0.084	mg/Kg	1	☼	6010B	Total/NA
Boron	13		4.5	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.18	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	42000	B	18	3.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.90	0.44	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.90	0.25	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	18	9.3	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	B	9.0	4.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	290	B	0.90	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.90	0.26	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		45	16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29	J	0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Sodium	270		90	13	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.76	J	0.90	0.45	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15	B	0.45	0.11	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.8	0.79	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.069	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.057		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.034	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B16 (0-1)

Lab Sample ID: 500-212292-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0082	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0057	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.22		0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.18	J	0.19	0.045	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.12		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.17		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.033	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.29		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B16 (0-1) (Continued)

Lab Sample ID: 500-212292-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Pyrene	0.24		0.038	0.0076	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]anthracene	0.11		0.038	0.0051	mg/Kg	1	✳		8270D	Total/NA
Chrysene	0.11		0.038	0.010	mg/Kg	1	✳		8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.038	0.0082	mg/Kg	1	✳		8270D	Total/NA
Benzo[k]fluoranthene	0.072		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	0.041		0.038	0.0099	mg/Kg	1	✳		8270D	Total/NA
Dibenz(a,h)anthracene	0.011	J	0.038	0.0074	mg/Kg	1	✳		8270D	Total/NA
Benzo[g,h,i]perylene	0.040		0.038	0.012	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.57	J	2.0	0.39	mg/Kg	1	✳		6010B	Total/NA
Arsenic	7.0		0.99	0.34	mg/Kg	1	✳		6010B	Total/NA
Barium	74		0.99	0.11	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.88	B	0.40	0.093	mg/Kg	1	✳		6010B	Total/NA
Boron	7.6		5.0	0.46	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.36	B	0.20	0.036	mg/Kg	1	✳		6010B	Total/NA
Calcium	34000	B	20	3.4	mg/Kg	1	✳		6010B	Total/NA
Chromium	18	B	0.99	0.49	mg/Kg	1	✳		6010B	Total/NA
Cobalt	9.1		0.50	0.13	mg/Kg	1	✳		6010B	Total/NA
Copper	30		0.99	0.28	mg/Kg	1	✳		6010B	Total/NA
Iron	18000	B	20	10	mg/Kg	1	✳		6010B	Total/NA
Lead	30		0.50	0.23	mg/Kg	1	✳		6010B	Total/NA
Magnesium	20000	B	9.9	4.9	mg/Kg	1	✳		6010B	Total/NA
Manganese	380	B	0.99	0.14	mg/Kg	1	✳		6010B	Total/NA
Nickel	23		0.99	0.29	mg/Kg	1	✳		6010B	Total/NA
Potassium	1800		50	18	mg/Kg	1	✳		6010B	Total/NA
Silver	0.30	J	0.50	0.13	mg/Kg	1	✳		6010B	Total/NA
Sodium	150		99	15	mg/Kg	1	✳		6010B	Total/NA
Vanadium	20	B	0.50	0.12	mg/Kg	1	✳		6010B	Total/NA
Zinc	72		2.0	0.87	mg/Kg	1	✳		6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.069	J	0.50	0.050	mg/L	1			6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.027	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.030		0.018	0.0059	mg/Kg	1	✳		7471B	Total/NA
pH	8.1		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212292-1	2615V2-01-B17 (0-3)	Solid	02/14/22 14:02	02/14/22 17:05
500-212292-2	2615V2-01-B15 (0-3)	Solid	02/14/22 14:26	02/14/22 17:05
500-212292-3	2615V2-01-B16 (0-1)	Solid	02/14/22 14:43	02/14/22 17:05

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B17 (0-3)

Lab Sample ID: 500-212292-1

Date Collected: 02/14/22 14:02

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0064	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Benzene	<0.0015		0.0015	0.00037	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Bromoform	<0.0015		0.0015	0.00043	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Bromomethane	<0.0037	*+	0.0037	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
2-Butanone (MEK)	<0.0037		0.0037	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Carbon disulfide	<0.0037		0.0037	0.00076	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Chlorobenzene	<0.0015		0.0015	0.00054	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Chloroethane	<0.0037		0.0037	0.0011	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Chloroform	<0.0015		0.0015	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Chloromethane	<0.0037	*-	0.0037	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00041	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00044	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Dibromochloromethane	<0.0015		0.0015	0.00048	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
1,1-Dichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
1,2-Dichloroethane	<0.0037		0.0037	0.0011	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
1,2-Dichloropropene	<0.0015		0.0015	0.00038	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Ethylbenzene	<0.0015		0.0015	0.00070	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
2-Hexanone	<0.0037	*1	0.0037	0.0011	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Methylene Chloride	<0.0037		0.0037	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.0011	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00043	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Styrene	<0.0015		0.0015	0.00044	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
1,1,2,2-Tetrachloroethane	<0.0015	*3	0.0015	0.00047	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Tetrachloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Toluene	<0.0015		0.0015	0.00037	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00065	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00063	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Trichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Vinyl acetate	<0.0037		0.0037	0.0013	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Vinyl chloride	<0.0015		0.0015	0.00065	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1
Xylenes, Total	<0.0029		0.0029	0.00047	mg/Kg	☼	02/14/22 18:10	02/22/22 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	*3 S1+	75 - 131	02/14/22 18:10	02/22/22 16:51	1
Dibromofluoromethane	113		75 - 126	02/14/22 18:10	02/22/22 16:51	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/14/22 18:10	02/22/22 16:51	1
Toluene-d8 (Surr)	118		75 - 124	02/14/22 18:10	02/22/22 16:51	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	☼	02/22/22 06:30	02/23/22 16:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/22/22 06:30	02/23/22 16:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/22/22 06:30	02/23/22 16:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/22/22 06:30	02/23/22 16:35	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B17 (0-3)

Lab Sample ID: 500-212292-1

Date Collected: 02/14/22 14:02

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.9

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	✱	02/22/22 06:30	02/23/22 16:35	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Isophorone	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Naphthalene	0.039		0.038	0.0060	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2-Methylnaphthalene	0.034 J		0.078	0.0071	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Acenaphthylene	0.014 J		0.038	0.0051	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Acenaphthene	0.080		0.038	0.0070	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Dibenzofuran	0.057 J		0.19	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Fluorene	0.086		0.038	0.0054	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Phenanthrene	0.82		0.038	0.0054	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Anthracene	0.20		0.038	0.0065	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Carbazole	<0.19		0.19	0.097	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Fluoranthene	1.1		0.038	0.0072	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Pyrene	0.93		0.038	0.0077	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1
Benzo[a]anthracene	0.42		0.038	0.0052	mg/Kg	✱	02/22/22 06:30	02/23/22 16:35	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B17 (0-3)

Lab Sample ID: 500-212292-1

Date Collected: 02/14/22 14:02

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.45		0.038	0.011	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
Bis(2-ethylhexyl) phthalate	0.11	J	0.19	0.071	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
Benzo[b]fluoranthene	0.63		0.038	0.0084	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
Benzo[k]fluoranthene	0.22		0.038	0.011	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
Benzo[a]pyrene	0.43		0.038	0.0075	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.010	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
Dibenz(a,h)anthracene	0.044		0.038	0.0075	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
Benzo[g,h,i]perylene	0.13		0.038	0.012	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	✳	02/22/22 06:30	02/23/22 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		31 - 166				02/22/22 06:30	02/23/22 16:35	1
Phenol-d5	100		30 - 153				02/22/22 06:30	02/23/22 16:35	1
Nitrobenzene-d5 (Surr)	87		37 - 147				02/22/22 06:30	02/23/22 16:35	1
2-Fluorobiphenyl (Surr)	93		43 - 145				02/22/22 06:30	02/23/22 16:35	1
2,4,6-Tribromophenol	122		31 - 143				02/22/22 06:30	02/23/22 16:35	1
Terphenyl-d14 (Surr)	114		42 - 157				02/22/22 06:30	02/23/22 16:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.41	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Arsenic	5.2		1.1	0.36	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Barium	39		1.1	0.12	mg/Kg	✳	02/24/22 13:12	02/25/22 10:57	1
Beryllium	0.62	B	0.42	0.099	mg/Kg	✳	02/24/22 13:12	02/25/22 10:57	1
Boron	13		5.3	0.49	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Cadmium	0.26	B	0.21	0.038	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Calcium	130000	B	110	18	mg/Kg	✳	02/24/22 13:12	02/25/22 11:00	5
Chromium	14	B	5.3	2.6	mg/Kg	✳	02/24/22 13:12	02/25/22 12:03	5
Cobalt	5.3		0.53	0.14	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Copper	18		1.1	0.30	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Iron	12000	B	110	55	mg/Kg	✳	02/24/22 13:12	02/25/22 11:00	5
Lead	42		0.53	0.24	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Magnesium	79000	B	53	26	mg/Kg	✳	02/24/22 13:12	02/25/22 11:00	5
Manganese	280	B	1.1	0.15	mg/Kg	✳	02/24/22 13:12	02/25/22 10:57	1
Nickel	15		1.1	0.31	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Potassium	1400		270	94	mg/Kg	✳	02/24/22 13:12	02/25/22 12:03	5
Selenium	<1.1		1.1	0.62	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Silver	<0.53		0.53	0.14	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Sodium	250	J	530	78	mg/Kg	✳	02/24/22 13:12	02/25/22 12:03	5
Thallium	<1.1		1.1	0.53	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Vanadium	12	B	0.53	0.13	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1
Zinc	48		2.1	0.93	mg/Kg	✳	02/24/22 13:12	02/24/22 18:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:08	02/23/22 23:23	1
Boron	0.098	J	0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:23	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B17 (0-3)

Lab Sample ID: 500-212292-1

Date Collected: 02/14/22 14:02

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:08	02/23/22 23:23	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:23	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:23	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:08	02/23/22 23:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:08	02/23/22 23:23	1
Manganese	1.1		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:23	1
Nickel	0.017	J	0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:08	02/23/22 23:23	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:23	1
Zinc	0.041	J	0.50	0.020	mg/L		02/23/22 09:08	02/23/22 23:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:13	02/24/22 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:08	02/23/22 21:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:08	02/23/22 21:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 16:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.017	0.0058	mg/Kg	☆	02/25/22 10:30	02/25/22 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			02/17/22 17:17	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B15 (0-3)

Lab Sample ID: 500-212292-2

Date Collected: 02/14/22 14:26

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Bromomethane	<0.0042	*+	0.0042	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Chloromethane	<0.0042	*-	0.0042	0.0017	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
1,2-Dichloropropene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
2-Hexanone	<0.0042	*1	0.0042	0.0013	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Vinyl acetate	<0.0042		0.0042	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	*3 S1+	75 - 131	02/14/22 18:10	02/22/22 17:17	1
Dibromofluoromethane	115		75 - 126	02/14/22 18:10	02/22/22 17:17	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	02/14/22 18:10	02/22/22 17:17	1
Toluene-d8 (Surr)	120		75 - 124	02/14/22 18:10	02/22/22 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.076	mg/Kg	☼	02/22/22 06:30	02/23/22 16:59	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/22/22 06:30	02/23/22 16:59	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/22/22 06:30	02/23/22 16:59	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	02/22/22 06:30	02/23/22 16:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B15 (0-3)

Lab Sample ID: 500-212292-2

Date Collected: 02/14/22 14:26

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
N-Nitrosodi-n-propylamine	<0.069		0.069	0.042	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Isophorone	<0.17		0.17	0.038	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Naphthalene	0.017	J	0.034	0.0053	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2,4-Dichlorophenol	<0.34		0.34	0.081	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2-Methylnaphthalene	0.024	J	0.069	0.0063	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2,4-Dinitrophenol	<0.69		0.69	0.60	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Acenaphthene	0.020	J	0.034	0.0062	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
4-Nitrophenol	<0.69		0.69	0.33	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Fluorene	0.0093	J	0.034	0.0048	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Hexachlorobenzene	<0.069		0.069	0.0079	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.28	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Phenanthrene	0.11		0.034	0.0048	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Anthracene	0.0063	J	0.034	0.0057	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Carbazole	<0.17		0.17	0.086	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Fluoranthene	0.013	J	0.034	0.0063	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Pyrene	0.023	J	0.034	0.0068	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1
Benzo[a]anthracene	0.0049	J	0.034	0.0046	mg/Kg	✱	02/22/22 06:30	02/23/22 16:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B15 (0-3)

Lab Sample ID: 500-212292-2

Date Collected: 02/14/22 14:26

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.028	J	0.034	0.0093	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
Benzo[a]pyrene	<0.034		0.034	0.0066	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0089	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
Benzo[g,h,i]perylene	0.012	J	0.034	0.011	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	✳	02/22/22 06:30	02/23/22 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		31 - 166				02/22/22 06:30	02/23/22 16:59	1
Phenol-d5	96		30 - 153				02/22/22 06:30	02/23/22 16:59	1
Nitrobenzene-d5 (Surr)	86		37 - 147				02/22/22 06:30	02/23/22 16:59	1
2-Fluorobiphenyl (Surr)	88		43 - 145				02/22/22 06:30	02/23/22 16:59	1
2,4,6-Tribromophenol	118		31 - 143				02/22/22 06:30	02/23/22 16:59	1
Terphenyl-d14 (Surr)	120		42 - 157				02/22/22 06:30	02/23/22 16:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.8	0.35	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Arsenic	9.2		0.90	0.31	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Barium	31		0.90	0.10	mg/Kg	✳	02/24/22 13:12	02/25/22 11:04	1
Beryllium	0.78	B	0.36	0.084	mg/Kg	✳	02/24/22 13:12	02/25/22 11:04	1
Boron	13		4.5	0.42	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Cadmium	0.20	B	0.18	0.032	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Calcium	42000	B	18	3.0	mg/Kg	✳	02/24/22 13:12	02/25/22 11:04	1
Chromium	14	B	0.90	0.44	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Cobalt	12		0.45	0.12	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Copper	30		0.90	0.25	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Iron	19000	B	18	9.3	mg/Kg	✳	02/24/22 13:12	02/25/22 11:04	1
Lead	16		0.45	0.21	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Magnesium	25000	B	9.0	4.4	mg/Kg	✳	02/24/22 13:12	02/25/22 11:04	1
Manganese	290	B	0.90	0.13	mg/Kg	✳	02/24/22 13:12	02/25/22 11:04	1
Nickel	32		0.90	0.26	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Potassium	2400		45	16	mg/Kg	✳	02/24/22 13:12	02/25/22 12:06	1
Selenium	<0.90		0.90	0.53	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Silver	0.29	J	0.45	0.12	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Sodium	270		90	13	mg/Kg	✳	02/24/22 13:12	02/25/22 12:06	1
Thallium	0.76	J	0.90	0.45	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Vanadium	15	B	0.45	0.11	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1
Zinc	39		1.8	0.79	mg/Kg	✳	02/24/22 13:12	02/24/22 18:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:08	02/23/22 23:26	1
Boron	0.069	J	0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:26	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B15 (0-3)

Lab Sample ID: 500-212292-2

Date Collected: 02/14/22 14:26

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:08	02/23/22 23:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:26	1
Cobalt	0.057		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:26	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:08	02/23/22 23:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:08	02/23/22 23:26	1
Manganese	1.9		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:26	1
Nickel	0.14		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:08	02/23/22 23:26	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:26	1
Zinc	0.034	J	0.50	0.020	mg/L		02/23/22 09:08	02/23/22 23:26	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.024	J	0.025	0.010	mg/L		02/23/22 09:13	02/24/22 16:17	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:13	02/24/22 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:08	02/23/22 21:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:08	02/23/22 21:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 16:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0056	mg/Kg	☼	02/25/22 10:30	02/25/22 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			02/17/22 17:20	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B16 (0-1)

Lab Sample ID: 500-212292-3

Date Collected: 02/14/22 14:43

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Bromomethane	<0.0048	*+	0.0048	0.0018	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Chloromethane	<0.0048	*-	0.0048	0.0019	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
1,2-Dichloropropene	<0.0019		0.0019	0.00050	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
2-Hexanone	<0.0048	*1	0.0048	0.0015	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
1,1,2,2-Tetrachloroethane	<0.0019	*3	0.0019	0.00061	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1
Xylenes, Total	<0.0038		0.0038	0.00062	mg/Kg	✱	02/14/22 18:10	02/22/22 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115	*3	75 - 131	02/14/22 18:10	02/22/22 17:43	1
Dibromofluoromethane	112		75 - 126	02/14/22 18:10	02/22/22 17:43	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	02/14/22 18:10	02/22/22 17:43	1
Toluene-d8 (Surr)	112		75 - 124	02/14/22 18:10	02/22/22 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B16 (0-1)

Lab Sample ID: 500-212292-3

Date Collected: 02/14/22 14:43

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.8

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	✱	02/22/22 06:30	02/23/22 17:22	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Naphthalene	0.0082	J	0.038	0.0059	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2-Methylnaphthalene	0.010	J	0.077	0.0070	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Acenaphthylene	0.0057	J	0.038	0.0050	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Acenaphthene	0.22		0.038	0.0069	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Dibenzofuran	0.18	J	0.19	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Fluorene	0.12		0.038	0.0054	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Phenanthrene	0.17		0.038	0.0053	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Anthracene	0.033	J	0.038	0.0064	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Carbazole	<0.19		0.19	0.095	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Fluoranthene	0.29		0.038	0.0071	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Pyrene	0.24		0.038	0.0076	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Benzo[a]anthracene	0.11		0.038	0.0051	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B16 (0-1)

Lab Sample ID: 500-212292-3

Date Collected: 02/14/22 14:43

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.11		0.038	0.010	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Benzo[b]fluoranthene	0.16		0.038	0.0082	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Benzo[k]fluoranthene	0.072		0.038	0.011	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Benzo[a]pyrene	0.11		0.038	0.0074	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Indeno[1,2,3-cd]pyrene	0.041		0.038	0.0099	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Dibenz(a,h)anthracene	0.011	J	0.038	0.0074	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Benzo[g,h,i]perylene	0.040		0.038	0.012	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✱	02/22/22 06:30	02/23/22 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		31 - 166				02/22/22 06:30	02/23/22 17:22	1
Phenol-d5	87		30 - 153				02/22/22 06:30	02/23/22 17:22	1
Nitrobenzene-d5 (Surr)	69		37 - 147				02/22/22 06:30	02/23/22 17:22	1
2-Fluorobiphenyl (Surr)	80		43 - 145				02/22/22 06:30	02/23/22 17:22	1
2,4,6-Tribromophenol	119		31 - 143				02/22/22 06:30	02/23/22 17:22	1
Terphenyl-d14 (Surr)	109		42 - 157				02/22/22 06:30	02/23/22 17:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	2.0	0.39	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Arsenic	7.0		0.99	0.34	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Barium	74		0.99	0.11	mg/Kg	✱	02/24/22 13:12	02/25/22 11:07	1
Beryllium	0.88	B	0.40	0.093	mg/Kg	✱	02/24/22 13:12	02/25/22 11:07	1
Boron	7.6		5.0	0.46	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Cadmium	0.36	B	0.20	0.036	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Calcium	34000	B	20	3.4	mg/Kg	✱	02/24/22 13:12	02/25/22 11:07	1
Chromium	18	B	0.99	0.49	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Cobalt	9.1		0.50	0.13	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Copper	30		0.99	0.28	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Iron	18000	B	20	10	mg/Kg	✱	02/24/22 13:12	02/25/22 11:07	1
Lead	30		0.50	0.23	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Magnesium	20000	B	9.9	4.9	mg/Kg	✱	02/24/22 13:12	02/25/22 11:07	1
Manganese	380	B	0.99	0.14	mg/Kg	✱	02/24/22 13:12	02/25/22 11:07	1
Nickel	23		0.99	0.29	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Potassium	1800		50	18	mg/Kg	✱	02/24/22 13:12	02/25/22 12:09	1
Selenium	<0.99		0.99	0.58	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Silver	0.30	J	0.50	0.13	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Sodium	150		99	15	mg/Kg	✱	02/24/22 13:12	02/25/22 12:09	1
Thallium	<0.99		0.99	0.50	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Vanadium	20	B	0.50	0.12	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1
Zinc	72		2.0	0.87	mg/Kg	✱	02/24/22 13:12	02/24/22 18:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:08	02/23/22 23:30	1
Boron	0.069	J	0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:30	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B16 (0-1)

Lab Sample ID: 500-212292-3

Date Collected: 02/14/22 14:43

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:08	02/23/22 23:30	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:30	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:30	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:08	02/23/22 23:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:08	02/23/22 23:30	1
Manganese	0.76		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:30	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:30	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:08	02/23/22 23:30	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:30	1
Zinc	0.027 J		0.50	0.020	mg/L		02/23/22 09:08	02/23/22 23:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		02/23/22 09:13	02/24/22 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:08	02/23/22 21:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:08	02/23/22 21:36	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 16:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0059	mg/Kg	☆	02/25/22 10:30	02/25/22 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			02/17/22 17:22	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

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

Metals

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

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

GC/MS VOA

Prep Batch: 643357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	5035	
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	5035	
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	5035	
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 643739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	8260B	643357
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	8260B	643357
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	8260B	643357
MB 500-643739/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-643739/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-643739/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 643993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	8260B	643357
MB 500-643993/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-643993/28	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-643993/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 643680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	3541	
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	3541	
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	3541	
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	3541	
MB 500-643680/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-643680/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 643939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	8270D	643680
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	8270D	643680
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	8270D	643680
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	8270D	643680
MB 500-643680/1-A	Method Blank	Total/NA	Solid	8270D	643680
LCS 500-643680/2-A	Lab Control Sample	Total/NA	Solid	8270D	643680

Metals

Leach Batch: 643679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	TCLP	Solid	1311	
500-212292-2	2615V2-01-B15 (0-3)	TCLP	Solid	1311	
500-212292-3	2615V2-01-B16 (0-1)	TCLP	Solid	1311	
500-212292-4	2615V2-01-B18 (0-2)	TCLP	Solid	1311	
LB 500-643679/1-B	Method Blank	TCLP	Solid	1311	
LB 500-643679/2-B	Method Blank	TCLP	Solid	1311	
500-212292-4 MS	2615V2-01-B18 (0-2)	TCLP	Solid	1311	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Metals (Continued)

Leach Batch: 643679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-4 DU	2615V2-01-B18 (0-2)	TCLP	Solid	1311	

Leach Batch: 643686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	SPLP East	Solid	1312	
500-212292-2	2615V2-01-B15 (0-3)	SPLP East	Solid	1312	
500-212292-3	2615V2-01-B16 (0-1)	SPLP East	Solid	1312	
LB 500-643686/1-B	Method Blank	SPLP East	Solid	1312	
500-212292-2 MS	2615V2-01-B15 (0-3)	SPLP East	Solid	1312	
500-212292-2 DU	2615V2-01-B15 (0-3)	SPLP East	Solid	1312	

Prep Batch: 643842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	3050B	
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	3050B	
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	3050B	
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	3050B	
MB 500-643842/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-643842/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 643853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	TCLP	Solid	7470A	643679
500-212292-2	2615V2-01-B15 (0-3)	TCLP	Solid	7470A	643679
500-212292-3	2615V2-01-B16 (0-1)	TCLP	Solid	7470A	643679
500-212292-4	2615V2-01-B18 (0-2)	TCLP	Solid	7470A	643679
LB 500-643679/1-B	Method Blank	TCLP	Solid	7470A	643679
MB 500-643853/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-643853/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-212292-4 MS	2615V2-01-B18 (0-2)	TCLP	Solid	7470A	643679
500-212292-4 DU	2615V2-01-B18 (0-2)	TCLP	Solid	7470A	643679

Prep Batch: 644031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	TCLP	Solid	3010A	643679
500-212292-2	2615V2-01-B15 (0-3)	TCLP	Solid	3010A	643679
500-212292-3	2615V2-01-B16 (0-1)	TCLP	Solid	3010A	643679
500-212292-4	2615V2-01-B18 (0-2)	TCLP	Solid	3010A	643679
LB 500-643679/2-B	Method Blank	TCLP	Solid	3010A	643679
LCS 500-644031/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	SPLP East	Solid	3010A	643686
500-212292-2	2615V2-01-B15 (0-3)	SPLP East	Solid	3010A	643686
500-212292-3	2615V2-01-B16 (0-1)	SPLP East	Solid	3010A	643686
LB 500-643686/1-B	Method Blank	SPLP East	Solid	3010A	643686
LCS 500-644034/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212292-2 MS	2615V2-01-B15 (0-3)	SPLP East	Solid	3010A	643686
500-212292-2 DU	2615V2-01-B15 (0-3)	SPLP East	Solid	3010A	643686

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Metals

Analysis Batch: 644140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	TCLP	Solid	7470A	643853
500-212292-2	2615V2-01-B15 (0-3)	TCLP	Solid	7470A	643853
500-212292-3	2615V2-01-B16 (0-1)	TCLP	Solid	7470A	643853
500-212292-4	2615V2-01-B18 (0-2)	TCLP	Solid	7470A	643853
LB 500-643679/1-B	Method Blank	TCLP	Solid	7470A	643853
MB 500-643853/12-A	Method Blank	Total/NA	Solid	7470A	643853
LCS 500-643853/14-A	Lab Control Sample	Total/NA	Solid	7470A	643853
500-212292-4 MS	2615V2-01-B18 (0-2)	TCLP	Solid	7470A	643853
500-212292-4 DU	2615V2-01-B18 (0-2)	TCLP	Solid	7470A	643853

Analysis Batch: 644181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	TCLP	Solid	6020A	644031
500-212292-2	2615V2-01-B15 (0-3)	TCLP	Solid	6020A	644031
500-212292-3	2615V2-01-B16 (0-1)	TCLP	Solid	6020A	644031
500-212292-4	2615V2-01-B18 (0-2)	TCLP	Solid	6020A	644031
LB 500-643679/2-B	Method Blank	TCLP	Solid	6020A	644031
LCS 500-644031/2-A	Lab Control Sample	Total/NA	Solid	6020A	644031

Analysis Batch: 644300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	TCLP	Solid	6010B	644031
500-212292-2	2615V2-01-B15 (0-3)	TCLP	Solid	6010B	644031
500-212292-3	2615V2-01-B16 (0-1)	TCLP	Solid	6010B	644031
500-212292-4	2615V2-01-B18 (0-2)	TCLP	Solid	6010B	644031
LB 500-643679/2-B	Method Blank	TCLP	Solid	6010B	644031
LCS 500-644031/2-A	Lab Control Sample	Total/NA	Solid	6010B	644031

Analysis Batch: 644508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	SPLP East	Solid	6010B	644034
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	6010B	643842
500-212292-2	2615V2-01-B15 (0-3)	SPLP East	Solid	6010B	644034
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	6010B	643842
500-212292-3	2615V2-01-B16 (0-1)	SPLP East	Solid	6010B	644034
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	6010B	643842
500-212292-4	2615V2-01-B18 (0-2)	TCLP	Solid	6010B	644031
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	6010B	643842
LB 500-643686/1-B	Method Blank	SPLP East	Solid	6010B	644034
MB 500-643842/1-A	Method Blank	Total/NA	Solid	6010B	643842
LCS 500-643842/2-A	Lab Control Sample	Total/NA	Solid	6010B	643842
LCS 500-644034/2-A	Lab Control Sample	Total/NA	Solid	6010B	644034
500-212292-2 MS	2615V2-01-B15 (0-3)	SPLP East	Solid	6010B	644034
500-212292-2 DU	2615V2-01-B15 (0-3)	SPLP East	Solid	6010B	644034

Prep Batch: 644525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	7471B	
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	7471B	
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	7471B	
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	7471B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Metals (Continued)

Prep Batch: 644525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-644525/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-644525/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 644559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	6010B	643842
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	6010B	643842
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	6010B	643842
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	6010B	643842
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	6010B	643842
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	6010B	643842
MB 500-643842/1-A	Method Blank	Total/NA	Solid	6010B	643842
LCS 500-643842/2-A	Lab Control Sample	Total/NA	Solid	6010B	643842

Analysis Batch: 644565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	6010B	643842
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	6010B	643842
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	6010B	643842
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	6010B	643842
MB 500-643842/1-A	Method Blank	Total/NA	Solid	6010B	643842

Analysis Batch: 644606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	7471B	644525
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	7471B	644525
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	7471B	644525
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	7471B	644525
MB 500-644525/12-A	Method Blank	Total/NA	Solid	7471B	644525
LCS 500-644525/13-A	Lab Control Sample	Total/NA	Solid	7471B	644525

General Chemistry

Analysis Batch: 642890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	Moisture	
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	Moisture	
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	Moisture	
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 643084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212292-1	2615V2-01-B17 (0-3)	Total/NA	Solid	9045D	
500-212292-2	2615V2-01-B15 (0-3)	Total/NA	Solid	9045D	
500-212292-3	2615V2-01-B16 (0-1)	Total/NA	Solid	9045D	
500-212292-4	2615V2-01-B18 (0-2)	Total/NA	Solid	9045D	
LCS 500-643084/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-643084/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

General Chemistry

Analysis Batch: 644313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644313/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644313/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

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Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-212292-1	2615V2-01-B17 (0-3)	140 *3 S1+	113	116	118
500-212292-2	2615V2-01-B15 (0-3)	141 *3 S1+	115	120	120
500-212292-3	2615V2-01-B16 (0-1)	115 *3	112	118	112
500-212292-4	2615V2-01-B18 (0-2)	124	41 S1-	103	101
LCS 500-643739/5	Lab Control Sample	89	105	107	106
LCS 500-643993/28	Lab Control Sample	101	101	94	98
LCSD 500-643739/6	Lab Control Sample Dup	90	104	109	107
LCSD 500-643993/5	Lab Control Sample Dup	107	97	93	95
MB 500-643739/8	Method Blank	103	105	111	107
MB 500-643993/7	Method Blank	111	107	102	91

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-212292-1	2615V2-01-B17 (0-3)	103	100	87	93	122	114
500-212292-2	2615V2-01-B15 (0-3)	97	96	86	88	118	120
500-212292-3	2615V2-01-B16 (0-1)	89	87	69	80	119	109
500-212292-4	2615V2-01-B18 (0-2)	52	89	73	99	104	117
LCS 500-643680/2-A	Lab Control Sample	106	109	96	109	114	102
MB 500-643680/1-A	Method Blank	112	113	95	108	116	114

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: MB 500-643739/8
Matrix: Solid
Analysis Batch: 643739

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/22/22 11:37	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/22/22 11:37	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/22/22 11:37	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/22/22 11:37	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/22/22 11:37	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/22/22 11:37	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/22/22 11:37	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/22/22 11:37	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/22/22 11:37	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/22/22 11:37	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:37	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/22/22 11:37	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/22/22 11:37	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/22/22 11:37	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/22/22 11:37	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:37	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/22/22 11:37	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:37	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/22/22 11:37	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/22/22 11:37	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/22/22 11:37	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/22/22 11:37	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/22/22 11:37	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/22/22 11:37	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/22/22 11:37	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/22/22 11:37	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/22/22 11:37	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/22/22 11:37	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/22/22 11:37	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/22/22 11:37	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/22/22 11:37	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/22/22 11:37	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/22/22 11:37	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/22/22 11:37	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/22/22 11:37	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/22/22 11:37	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/22/22 11:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		75 - 131		02/22/22 11:37	1
Dibromofluoromethane	105		75 - 126		02/22/22 11:37	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		02/22/22 11:37	1
Toluene-d8 (Surr)	107		75 - 124		02/22/22 11:37	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LCS 500-643739/5
Matrix: Solid
Analysis Batch: 643739

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0425		mg/Kg		85	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0451		mg/Kg		90	67 - 129
Bromoform	0.0500	0.0481		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0776	*+	mg/Kg		155	70 - 130
2-Butanone (MEK)	0.0500	0.0370		mg/Kg		74	47 - 138
Carbon disulfide	0.0500	0.0438		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0466		mg/Kg		93	75 - 125
Chlorobenzene	0.0500	0.0435		mg/Kg		87	50 - 150
Chloroethane	0.0500	0.0576		mg/Kg		115	75 - 125
Chloroform	0.0500	0.0442		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0303	*-	mg/Kg		61	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0431		mg/Kg		86	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0425		mg/Kg		85	70 - 125
Dibromochloromethane	0.0500	0.0465		mg/Kg		93	69 - 125
1,1-Dichloroethane	0.0500	0.0398		mg/Kg		80	70 - 125
1,2-Dichloroethane	0.0500	0.0464		mg/Kg		93	70 - 130
1,1-Dichloroethene	0.0500	0.0463		mg/Kg		93	70 - 120
1,2-Dichloropropane	0.0500	0.0403		mg/Kg		81	70 - 125
Ethylbenzene	0.0500	0.0440		mg/Kg		88	61 - 136
2-Hexanone	0.0500	0.0344		mg/Kg		69	48 - 146
Methylene Chloride	0.0500	0.0427		mg/Kg		85	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0353		mg/Kg		71	50 - 148
Methyl tert-butyl ether	0.0500	0.0442		mg/Kg		88	50 - 140
Styrene	0.0500	0.0464		mg/Kg		93	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0422		mg/Kg		84	70 - 122
Tetrachloroethene	0.0500	0.0451		mg/Kg		90	70 - 124
Toluene	0.0500	0.0450		mg/Kg		90	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0438		mg/Kg		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 128
1,1,2-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0445		mg/Kg		89	70 - 125
Vinyl acetate	0.0500	0.0325		mg/Kg		65	40 - 153
Vinyl chloride	0.0500	0.0409		mg/Kg		82	70 - 125
Xylenes, Total	0.100	0.0917		mg/Kg		92	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	105		75 - 126
1,2-Dichloroethane-d4 (Surr)	107		70 - 134
Toluene-d8 (Surr)	106		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LCSD 500-643739/6
Matrix: Solid
Analysis Batch: 643739

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0517		mg/Kg		103	40 - 150	19	30
Benzene	0.0500	0.0457		mg/Kg		91	70 - 125	6	30
Bromodichloromethane	0.0500	0.0486		mg/Kg		97	67 - 129	8	30
Bromoform	0.0500	0.0547		mg/Kg		109	68 - 136	13	30
Bromomethane	0.0500	0.0888	*+	mg/Kg		178	70 - 130	13	30
2-Butanone (MEK)	0.0500	0.0455		mg/Kg		91	47 - 138	21	30
Carbon disulfide	0.0500	0.0465		mg/Kg		93	70 - 129	6	30
Carbon tetrachloride	0.0500	0.0499		mg/Kg		100	75 - 125	7	30
Chlorobenzene	0.0500	0.0469		mg/Kg		94	50 - 150	8	30
Chloroethane	0.0500	0.0549		mg/Kg		110	75 - 125	5	30
Chloroform	0.0500	0.0474		mg/Kg		95	57 - 135	7	30
Chloromethane	0.0500	0.0319	*-	mg/Kg		64	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0466		mg/Kg		93	70 - 125	8	30
cis-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 125	9	30
Dibromochloromethane	0.0500	0.0520		mg/Kg		104	69 - 125	11	30
1,1-Dichloroethane	0.0500	0.0422		mg/Kg		84	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0494		mg/Kg		99	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120	7	30
1,2-Dichloropropane	0.0500	0.0422		mg/Kg		84	70 - 125	5	30
Ethylbenzene	0.0500	0.0475		mg/Kg		95	61 - 136	8	30
2-Hexanone	0.0500	0.0472	*1	mg/Kg		94	48 - 146	31	30
Methylene Chloride	0.0500	0.0454		mg/Kg		91	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0452		mg/Kg		90	50 - 148	25	30
Methyl tert-butyl ether	0.0500	0.0493		mg/Kg		99	50 - 140	11	30
Styrene	0.0500	0.0500		mg/Kg		100	70 - 125	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0479		mg/Kg		96	70 - 122	13	30
Tetrachloroethene	0.0500	0.0485		mg/Kg		97	70 - 124	7	30
Toluene	0.0500	0.0477		mg/Kg		95	70 - 125	6	30
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 125	6	30
trans-1,3-Dichloropropene	0.0500	0.0485		mg/Kg		97	70 - 125	10	30
1,1,1-Trichloroethane	0.0500	0.0506		mg/Kg		101	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0532		mg/Kg		106	70 - 125	11	30
Trichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125	7	30
Vinyl acetate	0.0500	0.0417		mg/Kg		83	40 - 153	25	30
Vinyl chloride	0.0500	0.0425		mg/Kg		85	70 - 125	4	30
Xylenes, Total	0.100	0.0986		mg/Kg		99	53 - 147	7	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		75 - 131
Dibromofluoromethane	104		75 - 126
1,2-Dichloroethane-d4 (Surr)	109		70 - 134
Toluene-d8 (Surr)	107		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: MB 500-643993/7
Matrix: Solid
Analysis Batch: 643993

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/23/22 11:24	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/23/22 11:24	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/23/22 11:24	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/23/22 11:24	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/23/22 11:24	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/23/22 11:24	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/23/22 11:24	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/23/22 11:24	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/23/22 11:24	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/23/22 11:24	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/23/22 11:24	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/23/22 11:24	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/23/22 11:24	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/23/22 11:24	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/23/22 11:24	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/23/22 11:24	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/23/22 11:24	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/23/22 11:24	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/23/22 11:24	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/23/22 11:24	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/23/22 11:24	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/23/22 11:24	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/23/22 11:24	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/23/22 11:24	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/23/22 11:24	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/23/22 11:24	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/23/22 11:24	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/23/22 11:24	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/23/22 11:24	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/23/22 11:24	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/23/22 11:24	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/23/22 11:24	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/23/22 11:24	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/23/22 11:24	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/23/22 11:24	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/23/22 11:24	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/23/22 11:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	111		75 - 131		02/23/22 11:24	1
Dibromofluoromethane	107		75 - 126		02/23/22 11:24	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		02/23/22 11:24	1
Toluene-d8 (Surr)	91		75 - 124		02/23/22 11:24	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LCS 500-643993/28

Matrix: Solid

Analysis Batch: 643993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0496		mg/Kg		99	40 - 150
Benzene	0.0500	0.0491		mg/Kg		98	70 - 125
Bromodichloromethane	0.0500	0.0509		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0566		mg/Kg		113	68 - 136
Bromomethane	0.0500	0.0417		mg/Kg		83	70 - 130
2-Butanone (MEK)	0.0500	0.0472		mg/Kg		94	47 - 138
Carbon disulfide	0.0500	0.0467		mg/Kg		93	70 - 129
Carbon tetrachloride	0.0500	0.0524		mg/Kg		105	75 - 125
Chlorobenzene	0.0500	0.0533		mg/Kg		107	50 - 150
Chloroethane	0.0500	0.0459		mg/Kg		92	75 - 125
Chloroform	0.0500	0.0549		mg/Kg		110	57 - 135
Chloromethane	0.0500	0.0421		mg/Kg		84	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0503		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0489		mg/Kg		98	70 - 125
Dibromochloromethane	0.0500	0.0532		mg/Kg		106	69 - 125
1,1-Dichloroethane	0.0500	0.0510		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0500	0.0531		mg/Kg		106	70 - 130
1,1-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 120
1,2-Dichloropropane	0.0500	0.0471		mg/Kg		94	70 - 125
Ethylbenzene	0.0500	0.0524		mg/Kg		105	61 - 136
2-Hexanone	0.0500	0.0433		mg/Kg		87	48 - 146
Methylene Chloride	0.0500	0.0499		mg/Kg		100	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0435		mg/Kg		87	50 - 148
Methyl tert-butyl ether	0.0500	0.0473		mg/Kg		95	50 - 140
Styrene	0.0500	0.0513		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0523		mg/Kg		105	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0506		mg/Kg		101	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0478		mg/Kg		96	70 - 125
1,1,1-Trichloroethane	0.0500	0.0521		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0504		mg/Kg		101	70 - 125
Trichloroethene	0.0500	0.0512		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0404		mg/Kg		81	40 - 153
Vinyl chloride	0.0500	0.0458		mg/Kg		92	70 - 125
Xylenes, Total	0.100	0.105		mg/Kg		105	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		75 - 131
Dibromofluoromethane	101		75 - 126
1,2-Dichloroethane-d4 (Surr)	94		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LCSD 500-643993/5
Matrix: Solid
Analysis Batch: 643993

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0513		mg/Kg		103	40 - 150	3	30
Benzene	0.0500	0.0530		mg/Kg		106	70 - 125	8	30
Bromodichloromethane	0.0500	0.0567		mg/Kg		113	67 - 129	11	30
Bromoform	0.0500	0.0582		mg/Kg		116	68 - 136	3	30
Bromomethane	0.0500	0.0444		mg/Kg		89	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0502		mg/Kg		100	47 - 138	6	30
Carbon disulfide	0.0500	0.0525		mg/Kg		105	70 - 129	12	30
Carbon tetrachloride	0.0500	0.0599		mg/Kg		120	75 - 125	14	30
Chlorobenzene	0.0500	0.0572		mg/Kg		114	50 - 150	7	30
Chloroethane	0.0500	0.0486		mg/Kg		97	75 - 125	6	30
Chloroform	0.0500	0.0582		mg/Kg		116	57 - 135	6	30
Chloromethane	0.0500	0.0431		mg/Kg		86	70 - 125	2	30
cis-1,2-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 125	8	30
cis-1,3-Dichloropropene	0.0500	0.0518		mg/Kg		104	70 - 125	6	30
Dibromochloromethane	0.0500	0.0554		mg/Kg		111	69 - 125	4	30
1,1-Dichloroethane	0.0500	0.0553		mg/Kg		111	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0572		mg/Kg		114	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0538		mg/Kg		108	70 - 125	13	30
Ethylbenzene	0.0500	0.0570		mg/Kg		114	61 - 136	8	30
2-Hexanone	0.0500	0.0459		mg/Kg		92	48 - 146	6	30
Methylene Chloride	0.0500	0.0548		mg/Kg		110	70 - 126	9	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0434		mg/Kg		87	50 - 148	0	30
Methyl tert-butyl ether	0.0500	0.0524		mg/Kg		105	50 - 140	10	30
Styrene	0.0500	0.0548		mg/Kg		110	70 - 125	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0577		mg/Kg		115	70 - 122	10	30
Tetrachloroethene	0.0500	0.0613		mg/Kg		123	70 - 124	12	30
Toluene	0.0500	0.0534		mg/Kg		107	70 - 125	5	30
trans-1,2-Dichloroethene	0.0500	0.0554		mg/Kg		111	70 - 125	11	30
trans-1,3-Dichloropropene	0.0500	0.0526		mg/Kg		105	70 - 125	9	30
1,1,1-Trichloroethane	0.0500	0.0599		mg/Kg		120	70 - 128	14	30
1,1,2-Trichloroethane	0.0500	0.0554		mg/Kg		111	70 - 125	9	30
Trichloroethene	0.0500	0.0571		mg/Kg		114	70 - 125	11	30
Vinyl acetate	0.0500	0.0376		mg/Kg		75	40 - 153	7	30
Vinyl chloride	0.0500	0.0481		mg/Kg		96	70 - 125	5	30
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147	6	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		75 - 131
Dibromofluoromethane	97		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: MB 500-643680/1-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643680

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/22/22 06:30	02/23/22 10:00	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: MB 500-643680/1-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/22/22 06:30	02/23/22 10:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112		31 - 166	02/22/22 06:30	02/23/22 10:00	1
Phenol-d5	113		30 - 153	02/22/22 06:30	02/23/22 10:00	1
Nitrobenzene-d5 (Surr)	95		37 - 147	02/22/22 06:30	02/23/22 10:00	1
2-Fluorobiphenyl (Surr)	108		43 - 145	02/22/22 06:30	02/23/22 10:00	1
2,4,6-Tribromophenol	116		31 - 143	02/22/22 06:30	02/23/22 10:00	1
Terphenyl-d14 (Surr)	114		42 - 157	02/22/22 06:30	02/23/22 10:00	1

Lab Sample ID: LCS 500-643680/2-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.35		mg/Kg		101	56 - 122
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		83	55 - 111
1,3-Dichlorobenzene	1.33	1.22		mg/Kg		91	65 - 124
1,4-Dichlorobenzene	1.33	1.22		mg/Kg		92	61 - 110
1,2-Dichlorobenzene	1.33	1.24		mg/Kg		93	62 - 110
2-Methylphenol	1.33	1.31		mg/Kg		99	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	0.884		mg/Kg		66	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.19		mg/Kg		89	56 - 118
Hexachloroethane	1.33	1.13		mg/Kg		85	60 - 114
2-Chlorophenol	1.33	1.38		mg/Kg		103	64 - 110
Nitrobenzene	1.33	1.20		mg/Kg		90	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.24		mg/Kg		93	60 - 112
1,2,4-Trichlorobenzene	1.33	1.30		mg/Kg		98	66 - 117
Isophorone	1.33	1.19		mg/Kg		90	55 - 110
2,4-Dimethylphenol	1.33	0.848		mg/Kg		64	60 - 110
Hexachlorobutadiene	1.33	1.45		mg/Kg		109	56 - 120
Naphthalene	1.33	1.31		mg/Kg		98	63 - 110
2,4-Dichlorophenol	1.33	1.43		mg/Kg		107	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LCS 500-643680/2-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	0.752		mg/Kg		56	30 - 150
2,4,6-Trichlorophenol	1.33	1.30		mg/Kg		97	57 - 120
2,4,5-Trichlorophenol	1.33	1.45		mg/Kg		109	50 - 120
Hexachlorocyclopentadiene	1.33	0.559	J	mg/Kg		42	10 - 133
2-Methylnaphthalene	1.33	1.44		mg/Kg		108	69 - 112
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
2-Chloronaphthalene	1.33	1.33		mg/Kg		100	69 - 114
4-Chloro-3-methylphenol	1.33	1.30		mg/Kg		98	65 - 122
2,6-Dinitrotoluene	1.33	1.39		mg/Kg		104	70 - 123
2-Nitrophenol	1.33	1.37		mg/Kg		102	60 - 120
3-Nitroaniline	1.33	0.673		mg/Kg		51	40 - 122
Dimethyl phthalate	1.33	1.35		mg/Kg		101	69 - 116
2,4-Dinitrophenol	2.67	2.52		mg/Kg		94	10 - 100
Acenaphthylene	1.33	1.39		mg/Kg		104	68 - 120
2,4-Dinitrotoluene	1.33	1.38		mg/Kg		104	69 - 124
Acenaphthene	1.33	1.34		mg/Kg		101	65 - 124
Dibenzofuran	1.33	1.38		mg/Kg		103	66 - 115
4-Nitrophenol	2.67	2.34		mg/Kg		88	30 - 122
Fluorene	1.33	1.32		mg/Kg		99	62 - 120
4-Nitroaniline	1.33	1.13		mg/Kg		85	60 - 160
4-Bromophenyl phenyl ether	1.33	1.45		mg/Kg		109	68 - 118
Hexachlorobenzene	1.33	1.59		mg/Kg		120	63 - 124
Diethyl phthalate	1.33	1.53		mg/Kg		115	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.40		mg/Kg		105	62 - 119
Pentachlorophenol	2.67	2.39		mg/Kg		89	13 - 112
N-Nitrosodiphenylamine	1.33	1.33		mg/Kg		100	65 - 112
4,6-Dinitro-2-methylphenol	2.67	2.70		mg/Kg		101	10 - 110
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Anthracene	1.33	1.35		mg/Kg		102	70 - 114
Carbazole	1.33	1.38		mg/Kg		104	65 - 142
Di-n-butyl phthalate	1.33	1.40		mg/Kg		105	65 - 120
Fluoranthene	1.33	1.38		mg/Kg		104	62 - 120
Pyrene	1.33	1.26		mg/Kg		94	61 - 128
Butyl benzyl phthalate	1.33	1.20		mg/Kg		90	71 - 129
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Chrysene	1.33	1.28		mg/Kg		96	63 - 120
3,3'-Dichlorobenzidine	1.33	0.866		mg/Kg		65	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.27		mg/Kg		96	72 - 131
Di-n-octyl phthalate	1.33	1.39		mg/Kg		104	68 - 134
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		101	68 - 127
Benzo[a]pyrene	1.33	1.45		mg/Kg		109	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	68 - 130
Dibenz(a,h)anthracene	1.33	1.41		mg/Kg		106	64 - 131
Benzo[g,h,i]perylene	1.33	1.38		mg/Kg		104	72 - 131
3 & 4 Methylphenol	1.33	1.43		mg/Kg		107	57 - 120

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LCS 500-643680/2-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643680

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	106		31 - 166
Phenol-d5	109		30 - 153
Nitrobenzene-d5 (Surr)	96		37 - 147
2-Fluorobiphenyl (Surr)	109		43 - 145
2,4,6-Tribromophenol	114		31 - 143
Terphenyl-d14 (Surr)	102		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-643842/1-A
Matrix: Solid
Analysis Batch: 644508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643842

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Barium	<1.0		1.0	0.11	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Boron	<5.0		5.0	0.47	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Cadmium	0.0436	J	0.20	0.036	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Chromium	1.35		1.0	0.50	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Copper	<1.0		1.0	0.28	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Lead	<0.50		0.50	0.23	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Nickel	<1.0		1.0	0.29	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Silver	<0.50		0.50	0.13	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Vanadium	0.168	J	0.50	0.12	mg/Kg		02/24/22 13:12	02/24/22 17:13	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/24/22 13:12	02/24/22 17:13	1

Lab Sample ID: MB 500-643842/1-A
Matrix: Solid
Analysis Batch: 644559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643842

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	22.0		20	10	mg/Kg		02/24/22 13:12	02/25/22 10:16	1

Lab Sample ID: MB 500-643842/1-A
Matrix: Solid
Analysis Batch: 644565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643842

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	1.27		1.0	0.50	mg/Kg		02/24/22 13:12	02/25/22 10:54	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LCS 500-643842/2-A
Matrix: Solid
Analysis Batch: 644508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643842
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	47.5		mg/Kg		95	80 - 120
Arsenic	10.0	8.52		mg/Kg		85	80 - 120
Barium	200	195		mg/Kg		98	80 - 120
Boron	100	82.6		mg/Kg		83	80 - 120
Cadmium	5.00	4.56		mg/Kg		91	80 - 120
Cobalt	50.0	45.8		mg/Kg		92	80 - 120
Copper	25.0	23.9		mg/Kg		96	80 - 120
Lead	10.0	8.83		mg/Kg		88	80 - 120
Nickel	50.0	45.9		mg/Kg		92	80 - 120
Selenium	10.0	8.12		mg/Kg		81	80 - 120
Silver	5.00	4.45		mg/Kg		89	80 - 120
Thallium	10.0	8.37		mg/Kg		84	80 - 120
Vanadium	50.0	45.0		mg/Kg		90	80 - 120
Zinc	50.0	44.2		mg/Kg		88	80 - 120

Lab Sample ID: LCS 500-643842/2-A
Matrix: Solid
Analysis Batch: 644559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643842
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	100	117		mg/Kg		117	80 - 120

Lab Sample ID: LCS 500-644031/2-A
Matrix: Solid
Analysis Batch: 644300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644031
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.510		mg/L		102	80 - 120
Beryllium	0.0500	0.0472		mg/L		94	80 - 120
Boron	1.00	0.917		mg/L		92	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Iron	1.00	0.962		mg/L		96	80 - 120
Lead	0.100	0.0963		mg/L		96	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.513		mg/L		103	80 - 120
Selenium	0.100	0.109		mg/L		109	80 - 120
Silver	0.0500	0.0528		mg/L		106	80 - 120
Zinc	0.500	0.557		mg/L		111	80 - 120

Lab Sample ID: LCS 500-644034/2-A
Matrix: Solid
Analysis Batch: 644508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644034
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.464		mg/L		93	80 - 120
Nickel	0.500	0.460		mg/L		92	80 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LB 500-643679/2-B
Matrix: Solid
Analysis Batch: 644300

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644031

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:08	02/23/22 23:16	1
Boron	<0.50		0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:08	02/23/22 23:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:08	02/23/22 23:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:08	02/23/22 23:16	1
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:08	02/23/22 23:16	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:08	02/23/22 23:16	1

Lab Sample ID: LB 500-643686/1-B
Matrix: Solid
Analysis Batch: 644508

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644034

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:13	02/24/22 16:01	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:13	02/24/22 16:01	1

Lab Sample ID: 500-212292-2 MS
Matrix: Solid
Analysis Batch: 644508

Client Sample ID: 2615V2-01-B15 (0-3)
Prep Type: SPLP East
Prep Batch: 644034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Manganese	0.024	J	0.500	0.485		mg/L		92	75 - 125
Nickel	<0.025		0.500	0.480		mg/L		96	75 - 125

Lab Sample ID: 500-212292-2 DU
Matrix: Solid
Analysis Batch: 644508

Client Sample ID: 2615V2-01-B15 (0-3)
Prep Type: SPLP East
Prep Batch: 644034

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Manganese	0.024	J	0.0240	J	mg/L		2	20
Nickel	<0.025		<0.025		mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644031/2-A
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644031

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.512		mg/L		102	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LB 500-643679/2-B
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644031

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:08	02/23/22 21:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:08	02/23/22 21:27	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-643853/12-A
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 16:07	1

Lab Sample ID: LCS 500-643853/14-A
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00218		mg/L		109	80 - 120

Lab Sample ID: LB 500-643679/1-B
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 643853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 16:32	1

Lab Sample ID: 500-212292-4 MS
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: 2615V2-01-B18 (0-2)
Prep Type: TCLP
Prep Batch: 643853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000918		mg/L		92	75 - 125

Lab Sample ID: 500-212292-4 DU
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: 2615V2-01-B18 (0-2)
Prep Type: TCLP
Prep Batch: 643853

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

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-644525/12-A
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		02/25/22 10:30	02/25/22 15:19	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

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

Lab Sample ID: LCS 500-644525/13-A
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.161		mg/Kg		96	80 - 120

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

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B17 (0-3)

Lab Sample ID: 500-212292-1

Date Collected: 02/14/22 14:02

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643686	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644034	02/23/22 09:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644508	02/24/22 16:14	JJB	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6010B		1	644300	02/23/22 23:23	JJB	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 21:32	FXG	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643853	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 16:37	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:17	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642890	02/17/22 07:44	LWN	TAL CHI

Client Sample ID: 2615V2-01-B17 (0-3)

Lab Sample ID: 500-212292-1

Date Collected: 02/14/22 14:02

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643739	02/22/22 16:51	PMF	TAL CHI
Total/NA	Prep	3541			643680	02/22/22 06:30	SB	TAL CHI
Total/NA	Analysis	8270D		1	643939	02/23/22 16:35	SS	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644508	02/24/22 18:33	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644559	02/25/22 10:57	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		5	644559	02/25/22 11:00	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		5	644565	02/25/22 12:03	JJB	TAL CHI
Total/NA	Prep	7471B			644525	02/25/22 10:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 15:40	MJG	TAL CHI

Client Sample ID: 2615V2-01-B15 (0-3)

Lab Sample ID: 500-212292-2

Date Collected: 02/14/22 14:26

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643686	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644034	02/23/22 09:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644508	02/24/22 16:17	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B15 (0-3)

Lab Sample ID: 500-212292-2

Date Collected: 02/14/22 14:26

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6010B		1	644300	02/23/22 23:26	JJB	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 21:34	FXG	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643853	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 16:39	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:20	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642890	02/17/22 07:44	LWN	TAL CHI

Client Sample ID: 2615V2-01-B15 (0-3)

Lab Sample ID: 500-212292-2

Date Collected: 02/14/22 14:26

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643739	02/22/22 17:17	PMF	TAL CHI
Total/NA	Prep	3541			643680	02/22/22 06:30	SB	TAL CHI
Total/NA	Analysis	8270D		1	643939	02/23/22 16:59	SS	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644508	02/24/22 18:37	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644559	02/25/22 11:04	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644565	02/25/22 12:06	JJB	TAL CHI
Total/NA	Prep	7471B			644525	02/25/22 10:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 15:42	MJG	TAL CHI

Client Sample ID: 2615V2-01-B16 (0-1)

Lab Sample ID: 500-212292-3

Date Collected: 02/14/22 14:43

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643686	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644034	02/23/22 09:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644508	02/24/22 16:40	JJB	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6010B		1	644300	02/23/22 23:30	JJB	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 21:36	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B16 (0-1)

Lab Sample ID: 500-212292-3

Date Collected: 02/14/22 14:43

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643853	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 16:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:22	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642890	02/17/22 07:44	LWN	TAL CHI

Client Sample ID: 2615V2-01-B16 (0-1)

Lab Sample ID: 500-212292-3

Date Collected: 02/14/22 14:43

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643739	02/22/22 17:43	PMF	TAL CHI
Total/NA	Prep	3541			643680	02/22/22 06:30	SB	TAL CHI
Total/NA	Analysis	8270D		1	643939	02/23/22 17:22	SS	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644508	02/24/22 18:40	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644559	02/25/22 11:07	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644565	02/25/22 12:09	JJB	TAL CHI
Total/NA	Prep	7471B			644525	02/25/22 10:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 15:44	MJG	TAL CHI

Client Sample ID: 2615V2-01-B18 (0-2)

Lab Sample ID: 500-212292-4

Date Collected: 02/14/22 15:12

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6010B		1	644508	02/24/22 14:53	JJB	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6010B		1	644300	02/23/22 23:33	JJB	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 21:38	FXG	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643853	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 16:44	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:24	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642890	02/17/22 07:44	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Client Sample ID: 2615V2-01-B18 (0-2)

Lab Sample ID: 500-212292-4

Date Collected: 02/14/22 15:12

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643993	02/23/22 12:16	JDD	TAL CHI
Total/NA	Prep	3541			643680	02/22/22 06:30	SB	TAL CHI
Total/NA	Analysis	8270D		1	643939	02/23/22 17:46	SS	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644508	02/24/22 18:43	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644559	02/25/22 11:10	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		5	644559	02/25/22 11:13	JJB	TAL CHI
Total/NA	Prep	3050B			643842	02/24/22 13:12		TAL CHI
Total/NA	Analysis	6010B		1	644565	02/25/22 12:19	JJB	TAL CHI
Total/NA	Prep	7471B			644525	02/25/22 10:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 15:46	MJG	TAL CHI

Laboratory References:

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



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212292-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

Chain of Custody Record

542657



Environment Testing
TestAmerica

TAL-8210

Address _____



Regulatory Program DW NPDES RCRA Other

Client Contact Company Name <u>WSP</u> Address _____ City/State/Zip _____ Phone _____ Fax _____ Project Name <u>W098 Glenway</u> Site <u>FAL 96/99/250</u> P O # _____		Project Manager <u>D Wright</u> Tel/Email _____ Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week (Standard) <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact <u>D. Wright</u> Lab Contact _____ Date <u>2/14/22</u> Carrier _____		COC No _____ _____ of _____ COCs Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No <u>500-2/2292</u>									
Sample Identification			Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Vol	Spill	Metal	TPH	Solids	Sample Specific Notes
1 2615V2-01-B17(0-3)			2/14/22	1402	G	S	5			X	X	X	X	X	
2 2615V2-01-B15(0-3)			2/14/22	1426	G	S	5			X	X	X	X	X	
3 2615V2-01-B16(0-1)			2/14/22	1443	G	S	5			X	X	X	X	X	
4 2615V2-01-B18(0-2)			2/14/22	1512	G	S	5			X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____															
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No _____ Cooler Temp (°C) Obs'd <u>34</u> Corr'd <u>24</u> Therm ID No _____															
Requested by <u>Eric Brander</u> Company <u>WSP</u> Date/Time <u>2/14/22 600</u>			Received by <u>[Signature]</u> Company <u>[Signature]</u> Date/Time <u>2/14/22 600</u>			Requested by <u>[Signature]</u> Company <u>eurofins</u> Date/Time <u>2/14/22 1705</u>			Received in Laboratory by <u>[Signature]</u> Company <u>EDTA</u> Date/Time <u>2/14/22 1705</u>						

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212292-1

Login Number: 212292

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-212399-1

Client Project/Site: IDOT - 196-002-WO008 Byrne Interchange

For:

WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
3/1/2022 4:18:20 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Job ID: 500-212399-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212399-1

Receipt

The samples were received on 2/15/2022 5:32 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS VOA

Method 8260B: Surrogate recovery for the following samples were outside the upper control limit: 2615V2-01-B22 (0-0.5) (500-212399-4), 2615V2-01-B23 (0-2) (500-212399-5) and 2615V2-01-B27 (0-3) (500-212399-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: 2615V2-01-B22 (0-0.5) (500-212399-4) and 2615V2-01-B27 (0-3) (500-212399-9). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard.

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644209 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, Carbazole, Indeno[1,2,3-cd]pyrene, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644198 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], Hexachlorocyclopentadiene and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644215 was outside the method criteria for the following analyte(s): 4-Nitrophenol, Butyl benzyl phthalate, Bis(2-ethylhexyl) phthalate, Hexachlorocyclopentadiene, Hexachlorobutadiene, 4-Chlorophenyl phenyl ether, 2-Methylphenol, 2,4,5-Trichlorophenol and 2,4,6-Trichlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 2615V2-01-B19 (0-3) (500-212399-1) and 2615V2-01-B20 (0-3) (500-212399-2). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The following sample contained one base surrogate outside acceptance limits: 2615V2-01-B22 (0-0.5) (500-212399-4), 2615V2-01-B25 (0-2) (500-212399-7) and 2615V2-01-B27 (0-3) (500-212399-9). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: Internal standard responses for Perylene-d12 was outside of acceptance limits for the following samples: 2615V2-01-B21 (0-1) (500-212399-3), 2615V2-01-B22 (0-0.5) (500-212399-4) and 2615V2-01-B27 (0-3) (500-212399-9). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: Internal standard responses for Perylene-d12 and Chrysene-d12 were outside of acceptance limits for the following samples: 2615V2-01-B23 (0-2) (500-212399-5) and 2615V2-01-B25 (0-2) (500-212399-7). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 500-644447 recovered above the upper control limit for multi analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 500-644447/2).

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Job ID: 500-212399-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

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

Metals

Method 6010B: The method blank for preparation batch 500-644323 and analytical batch 500-644645 contained Chromium 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.

Method 7470A: The initial calibration verification (ICV) result for batch 644370 recovered slightly above the 90-110% control limits for Hg (111%). All CCV's and batch QC were within acceptable limits. Sample results were non-detects, and have been reported as qualified data.

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: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B19 (0-3)

Lab Sample ID: 500-212399-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.022	J	0.038	0.0059	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.059	J	0.078	0.0071	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.023	J	0.038	0.0069	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.16		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.017	J	0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.047		0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.011	J	0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.041		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J *3	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.81	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.8		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	39		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.62		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	15		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Calcium	56000	B	56	9.5	mg/Kg	5	✳	6010B	Total/NA
Chromium	16	B	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	38		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000	B	11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	18		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	430	B	0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	41	B	0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	3000		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.56		0.56	0.33	mg/Kg	1	✳	6010B	Total/NA
Silver	0.079	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	300		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.45	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	53		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.069	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.028	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B20 (0-3)

Lab Sample ID: 500-212399-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.014	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.040	J	0.078	0.0072	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.022	J	0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.14		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.030	J	0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.036	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J *3	0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.50	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B20 (0-3) (Continued)

Lab Sample ID: 500-212399-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.3		0.57	0.19	mg/Kg	1	☒	6010B	Total/NA
Barium	37		0.57	0.065	mg/Kg	1	☒	6010B	Total/NA
Beryllium	0.61		0.23	0.053	mg/Kg	1	☒	6010B	Total/NA
Boron	14		2.8	0.26	mg/Kg	1	☒	6010B	Total/NA
Calcium	52000	B	57	9.6	mg/Kg	5	☒	6010B	Total/NA
Chromium	17	B	0.57	0.28	mg/Kg	1	☒	6010B	Total/NA
Cobalt	14		0.28	0.074	mg/Kg	1	☒	6010B	Total/NA
Copper	33		0.57	0.16	mg/Kg	1	☒	6010B	Total/NA
Iron	21000	B	11	5.9	mg/Kg	1	☒	6010B	Total/NA
Lead	15		0.28	0.13	mg/Kg	1	☒	6010B	Total/NA
Magnesium	24000		5.7	2.8	mg/Kg	1	☒	6010B	Total/NA
Manganese	380	B	0.57	0.082	mg/Kg	1	☒	6010B	Total/NA
Nickel	38	B	0.57	0.16	mg/Kg	1	☒	6010B	Total/NA
Potassium	3000		28	10	mg/Kg	1	☒	6010B	Total/NA
Selenium	0.43	J	0.57	0.33	mg/Kg	1	☒	6010B	Total/NA
Sodium	330		57	8.4	mg/Kg	1	☒	6010B	Total/NA
Thallium	0.40	J	0.57	0.28	mg/Kg	1	☒	6010B	Total/NA
Vanadium	18		0.28	0.067	mg/Kg	1	☒	6010B	Total/NA
Zinc	54		1.1	0.50	mg/Kg	1	☒	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.066	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.091		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0059	mg/Kg	1	☒	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B21 (0-1)

Lab Sample ID: 500-212399-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.015	J	0.039	0.0060	mg/Kg	1	☒	8270D	Total/NA
2-Methylnaphthalene	0.015	J	0.079	0.0072	mg/Kg	1	☒	8270D	Total/NA
Acenaphthylene	0.012	J	0.039	0.0051	mg/Kg	1	☒	8270D	Total/NA
Acenaphthene	0.038	J	0.039	0.0070	mg/Kg	1	☒	8270D	Total/NA
Fluorene	0.032	J	0.039	0.0055	mg/Kg	1	☒	8270D	Total/NA
Phenanthrene	0.39		0.039	0.0054	mg/Kg	1	☒	8270D	Total/NA
Anthracene	0.095		0.039	0.0065	mg/Kg	1	☒	8270D	Total/NA
Fluoranthene	0.71		0.039	0.0072	mg/Kg	1	☒	8270D	Total/NA
Pyrene	1.2		0.039	0.0078	mg/Kg	1	☒	8270D	Total/NA
Benzo[a]anthracene	0.44		0.039	0.0053	mg/Kg	1	☒	8270D	Total/NA
Chrysene	0.54		0.039	0.011	mg/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	1.2	*3	0.039	0.0084	mg/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	0.40	*3	0.039	0.012	mg/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	0.78	*3	0.039	0.0076	mg/Kg	1	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.24	*3	0.039	0.010	mg/Kg	1	☒	8270D	Total/NA
Dibenz(a,h)anthracene	0.083	*3	0.039	0.0075	mg/Kg	1	☒	8270D	Total/NA
Benzo[g,h,i]perylene	0.24	*3	0.039	0.013	mg/Kg	1	☒	8270D	Total/NA
Antimony	0.56	J	1.1	0.22	mg/Kg	1	☒	6010B	Total/NA
Arsenic	6.2		0.56	0.19	mg/Kg	1	☒	6010B	Total/NA
Barium	67		0.56	0.064	mg/Kg	1	☒	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B21 (0-1) (Continued)

Lab Sample ID: 500-212399-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.54		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	12		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.12	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	86000	B	56	9.5	mg/Kg	5	✳	6010B	Total/NA
Chromium	18	B	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.7		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	56	29	mg/Kg	5	✳	6010B	Total/NA
Lead	34		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	49000		28	14	mg/Kg	5	✳	6010B	Total/NA
Manganese	330	B	0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	25	B	0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	370		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.33	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	73		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.091	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.043	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.037		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1



Client Sample ID: 2615V2-01-B26 (0-3)

Lab Sample ID: 500-212399-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.038	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.056	J	0.079	0.0072	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.034	J	0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.023	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
N-Nitrosodiphenylamine	0.12	J	0.20	0.046	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.32		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.045		0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.31		0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.36		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.13		0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.16		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.21		0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.071		0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.14		0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.053		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-212399-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Client Sample ID: 2615V2-01-B26 (0-3) (Continued)

Lab Sample ID: 500-212399-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.058		0.039	0.013	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.49	J	1.1	0.22	mg/Kg	1	✳		6010B	Total/NA
Arsenic	6.9		0.57	0.20	mg/Kg	1	✳		6010B	Total/NA
Barium	38		0.57	0.065	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.63		0.23	0.054	mg/Kg	1	✳		6010B	Total/NA
Boron	17		2.9	0.27	mg/Kg	1	✳		6010B	Total/NA
Calcium	58000	B	57	9.7	mg/Kg	5	✳		6010B	Total/NA
Chromium	18	B	0.57	0.28	mg/Kg	1	✳		6010B	Total/NA
Cobalt	12		0.29	0.075	mg/Kg	1	✳		6010B	Total/NA
Copper	30		0.57	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	19000	B	11	6.0	mg/Kg	1	✳		6010B	Total/NA
Lead	19		0.29	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	24000		5.7	2.8	mg/Kg	1	✳		6010B	Total/NA
Manganese	300	B	0.57	0.083	mg/Kg	1	✳		6010B	Total/NA
Nickel	33	B	0.57	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	3100		29	10	mg/Kg	1	✳		6010B	Total/NA
Silver	0.11	J	0.29	0.074	mg/Kg	1	✳		6010B	Total/NA
Sodium	390		57	8.5	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.39	J	0.57	0.29	mg/Kg	1	✳		6010B	Total/NA
Vanadium	19		0.29	0.068	mg/Kg	1	✳		6010B	Total/NA
Zinc	47		1.1	0.50	mg/Kg	1	✳		6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.088	J	0.50	0.050	mg/L	1			6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1			6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.034	J	0.50	0.020	mg/L	1			6010B	TCLP
Mercury	0.051		0.018	0.0061	mg/Kg	1	✳		7471B	Total/NA
pH	8.0		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212399-1	2615V2-01-B19 (0-3)	Solid	02/15/22 09:00	02/15/22 17:32
500-212399-2	2615V2-01-B20 (0-3)	Solid	02/15/22 09:22	02/15/22 17:32
500-212399-3	2615V2-01-B21 (0-1)	Solid	02/15/22 09:38	02/15/22 17:32
500-212399-8	2615V2-01-B26 (0-3)	Solid	02/15/22 13:30	02/15/22 17:32

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B19 (0-3)

Lab Sample ID: 500-212399-1

Date Collected: 02/15/22 09:00

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
1,2-Dichloropropene	<0.0018		0.0018	0.00045	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✱	02/15/22 17:52	02/24/22 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		75 - 131	02/15/22 17:52	02/24/22 12:28	1
Dibromofluoromethane	115		75 - 126	02/15/22 17:52	02/24/22 12:28	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/15/22 17:52	02/24/22 12:28	1
Toluene-d8 (Surr)	119		75 - 124	02/15/22 17:52	02/24/22 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B19 (0-3)

Lab Sample ID: 500-212399-1

Date Collected: 02/15/22 09:00

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.7

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	✱	02/23/22 16:17	02/24/22 17:23	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Naphthalene	0.022	J	0.038	0.0059	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2-Methylnaphthalene	0.059	J	0.078	0.0071	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Acenaphthene	0.023	J	0.038	0.0069	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Phenanthrene	0.16		0.038	0.0054	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Fluoranthene	0.017	J	0.038	0.0071	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Pyrene	0.047		0.038	0.0076	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1
Benzo[a]anthracene	0.011	J	0.038	0.0052	mg/Kg	✱	02/23/22 16:17	02/24/22 17:23	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B19 (0-3)

Lab Sample ID: 500-212399-1

Date Collected: 02/15/22 09:00

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.041		0.038	0.010	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0083	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0074	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.010	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
Benzo[g,h,i]perylene	0.019	J *3	0.038	0.012	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	02/23/22 16:17	02/24/22 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		31 - 166	02/23/22 16:17	02/24/22 17:23	1
Phenol-d5	69		30 - 153	02/23/22 16:17	02/24/22 17:23	1
Nitrobenzene-d5 (Surr)	75		37 - 147	02/23/22 16:17	02/24/22 17:23	1
2-Fluorobiphenyl (Surr)	87		43 - 145	02/23/22 16:17	02/24/22 17:23	1
2,4,6-Tribromophenol	80		31 - 143	02/23/22 16:17	02/24/22 17:23	1
Terphenyl-d14 (Surr)	120		42 - 157	02/23/22 16:17	02/24/22 17:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.81	J	1.1	0.22	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Arsenic	9.8		0.56	0.19	mg/Kg	✳	02/25/22 10:35	02/27/22 19:03	1
Barium	39		0.56	0.064	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Beryllium	0.62		0.22	0.052	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Boron	15		2.8	0.26	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Calcium	56000	B	56	9.5	mg/Kg	✳	02/25/22 10:35	02/27/22 15:03	5
Chromium	16	B	0.56	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Cobalt	15		0.28	0.073	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Copper	38		0.56	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Iron	23000	B	11	5.8	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Lead	18		0.28	0.13	mg/Kg	✳	02/25/22 10:35	02/27/22 19:03	1
Magnesium	27000		5.6	2.8	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Manganese	430	B	0.56	0.081	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Nickel	41	B	0.56	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Potassium	3000		28	9.9	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Selenium	0.56		0.56	0.33	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Silver	0.079	J	0.28	0.072	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Sodium	300		56	8.3	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Thallium	0.45	J	0.56	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Vanadium	18		0.28	0.066	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1
Zinc	53		1.1	0.49	mg/Kg	✳	02/25/22 10:35	02/25/22 19:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:53	1
Boron	0.069	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:53	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B19 (0-3)

Lab Sample ID: 500-212399-1

Date Collected: 02/15/22 09:00

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 22:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:53	1
Cobalt	0.045		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:53	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 22:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 22:53	1
Manganese	2.0		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:53	1
Nickel	0.11		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 22:53	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:53	1
Zinc	0.028	J	0.50	0.020	mg/L		02/24/22 08:20	02/24/22 22:53	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.035		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:31	1
Nickel	<0.025		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0063	mg/Kg	☼	02/24/22 18:30	02/25/22 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			02/18/22 19:47	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B20 (0-3)

Lab Sample ID: 500-212399-2

Date Collected: 02/15/22 09:22

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
1,2-Dichloropropene	<0.0017		0.0017	0.00045	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✱	02/15/22 17:52	02/24/22 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		75 - 131	02/15/22 17:52	02/24/22 12:55	1
Dibromofluoromethane	116		75 - 126	02/15/22 17:52	02/24/22 12:55	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	02/15/22 17:52	02/24/22 12:55	1
Toluene-d8 (Surr)	119		75 - 124	02/15/22 17:52	02/24/22 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B20 (0-3)

Lab Sample ID: 500-212399-2

Date Collected: 02/15/22 09:22

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Naphthalene	0.014	J	0.039	0.0060	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2-Methylnaphthalene	0.040	J	0.078	0.0072	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Acenaphthene	0.022	J	0.039	0.0070	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Phenanthrene	0.14		0.039	0.0054	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Carbazole	<0.20		0.20	0.097	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Pyrene	0.030	J	0.039	0.0077	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	✱	02/23/22 16:17	02/24/22 17:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B20 (0-3)

Lab Sample ID: 500-212399-2

Date Collected: 02/15/22 09:22

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.036	J	0.039	0.011	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0084	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.011	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0075	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
Benzo[g,h,i]perylene	0.015	J *3	0.039	0.013	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	02/23/22 16:17	02/24/22 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		31 - 166	02/23/22 16:17	02/24/22 17:45	1
Phenol-d5	63		30 - 153	02/23/22 16:17	02/24/22 17:45	1
Nitrobenzene-d5 (Surr)	63		37 - 147	02/23/22 16:17	02/24/22 17:45	1
2-Fluorobiphenyl (Surr)	78		43 - 145	02/23/22 16:17	02/24/22 17:45	1
2,4,6-Tribromophenol	77		31 - 143	02/23/22 16:17	02/24/22 17:45	1
Terphenyl-d14 (Surr)	121		42 - 157	02/23/22 16:17	02/24/22 17:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.22	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Arsenic	9.3		0.57	0.19	mg/Kg	✳	02/25/22 10:35	02/27/22 19:06	1
Barium	37		0.57	0.065	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Beryllium	0.61		0.23	0.053	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Boron	14		2.8	0.26	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Calcium	52000	B	57	9.6	mg/Kg	✳	02/25/22 10:35	02/27/22 15:12	5
Chromium	17	B	0.57	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Cobalt	14		0.28	0.074	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Copper	33		0.57	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Iron	21000	B	11	5.9	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Lead	15		0.28	0.13	mg/Kg	✳	02/25/22 10:35	02/27/22 19:06	1
Magnesium	24000		5.7	2.8	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Manganese	380	B	0.57	0.082	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Nickel	38	B	0.57	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Potassium	3000		28	10	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Selenium	0.43	J	0.57	0.33	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Silver	<0.28		0.28	0.073	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Sodium	330		57	8.4	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Thallium	0.40	J	0.57	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Vanadium	18		0.28	0.067	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1
Zinc	54		1.1	0.50	mg/Kg	✳	02/25/22 10:35	02/25/22 19:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:56	1
Boron	0.066	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B20 (0-3)

Lab Sample ID: 500-212399-2

Date Collected: 02/15/22 09:22

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 22:56	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:56	1
Cobalt	0.038		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:56	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 22:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 22:56	1
Manganese	1.9		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:56	1
Nickel	0.091		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:56	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 22:56	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:56	1
Zinc	<0.50		0.50	0.020	mg/L		02/24/22 08:20	02/24/22 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.039		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 12:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0059	mg/Kg	☆	02/24/22 18:30	02/25/22 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			02/18/22 19:50	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B21 (0-1)

Lab Sample ID: 500-212399-3

Date Collected: 02/15/22 09:38

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
1,2-Dichloropropene	<0.0019		0.0019	0.00049	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✱	02/15/22 17:52	02/24/22 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		75 - 131	02/15/22 17:52	02/24/22 13:22	1
Dibromofluoromethane	120		75 - 126	02/15/22 17:52	02/24/22 13:22	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/15/22 17:52	02/24/22 13:22	1
Toluene-d8 (Surr)	121		75 - 124	02/15/22 17:52	02/24/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B21 (0-1)

Lab Sample ID: 500-212399-3

Date Collected: 02/15/22 09:38

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Naphthalene	0.015	J	0.039	0.0060	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2-Methylnaphthalene	0.015	J	0.079	0.0072	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Acenaphthylene	0.012	J	0.039	0.0051	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Acenaphthene	0.038	J	0.039	0.0070	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Fluorene	0.032	J	0.039	0.0055	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Phenanthrene	0.39		0.039	0.0054	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Anthracene	0.095		0.039	0.0065	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Fluoranthene	0.71		0.039	0.0072	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Pyrene	1.2		0.039	0.0078	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1
Benzo[a]anthracene	0.44		0.039	0.0053	mg/Kg	✱	02/23/22 16:17	02/25/22 15:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B21 (0-1)

Lab Sample ID: 500-212399-3

Date Collected: 02/15/22 09:38

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.54		0.039	0.011	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
Benzo[b]fluoranthene	1.2	*3	0.039	0.0084	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
Benzo[k]fluoranthene	0.40	*3	0.039	0.012	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
Benzo[a]pyrene	0.78	*3	0.039	0.0076	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
Indeno[1,2,3-cd]pyrene	0.24	*3	0.039	0.010	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
Dibenz(a,h)anthracene	0.083	*3	0.039	0.0075	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
Benzo[g,h,i]perylene	0.24	*3	0.039	0.013	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	02/23/22 16:17	02/25/22 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		31 - 166				02/23/22 16:17	02/25/22 15:50	1
Phenol-d5	92		30 - 153				02/23/22 16:17	02/25/22 15:50	1
Nitrobenzene-d5 (Surr)	58		37 - 147				02/23/22 16:17	02/25/22 15:50	1
2-Fluorobiphenyl (Surr)	78		43 - 145				02/23/22 16:17	02/25/22 15:50	1
2,4,6-Tribromophenol	69		31 - 143				02/23/22 16:17	02/25/22 15:50	1
Terphenyl-d14 (Surr)	154		42 - 157				02/23/22 16:17	02/25/22 15:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.1	0.22	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Arsenic	6.2		0.56	0.19	mg/Kg	✳	02/25/22 10:35	02/27/22 19:09	1
Barium	67		0.56	0.064	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Beryllium	0.54		0.22	0.052	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Boron	12		2.8	0.26	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Cadmium	0.12	B	0.11	0.020	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Calcium	86000	B	56	9.5	mg/Kg	✳	02/25/22 10:35	02/27/22 15:15	5
Chromium	18	B	0.56	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Cobalt	9.7		0.28	0.073	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Copper	26		0.56	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Iron	19000	B	56	29	mg/Kg	✳	02/25/22 10:35	02/27/22 15:15	5
Lead	34		0.28	0.13	mg/Kg	✳	02/25/22 10:35	02/27/22 19:09	1
Magnesium	49000		28	14	mg/Kg	✳	02/25/22 10:35	02/27/22 15:15	5
Manganese	330	B	0.56	0.081	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Nickel	25	B	0.56	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Potassium	2000		28	9.9	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Silver	<0.28		0.28	0.072	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Sodium	370		56	8.3	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Thallium	0.33	J	0.56	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Vanadium	20		0.28	0.066	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	1
Zinc	73		1.1	0.49	mg/Kg	✳	02/25/22 10:35	02/25/22 19:19	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		02/24/22 08:20	02/24/22 23:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 23:00	1
Boron	0.091	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:00	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B21 (0-1)

Lab Sample ID: 500-212399-3

Date Collected: 02/15/22 09:38

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 23:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:00	1
Cobalt	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:00	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 23:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 23:00	1
Manganese	1.5		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:00	1
Nickel	0.012	J	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 23:00	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:00	1
Zinc	0.043	J	0.50	0.020	mg/L		02/24/22 08:20	02/24/22 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.037		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 12:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0059	mg/Kg	☆	02/24/22 18:30	02/25/22 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			02/18/22 19:52	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B26 (0-3)

Lab Sample ID: 500-212399-8

Date Collected: 02/15/22 13:30

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
1,2-Dichloropropene	<0.0019		0.0019	0.00048	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	✳	02/15/22 17:52	02/24/22 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		75 - 131	02/15/22 17:52	02/24/22 15:36	1
Dibromofluoromethane	117		75 - 126	02/15/22 17:52	02/24/22 15:36	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	02/15/22 17:52	02/24/22 15:36	1
Toluene-d8 (Surr)	117		75 - 124	02/15/22 17:52	02/24/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B26 (0-3)

Lab Sample ID: 500-212399-8

Date Collected: 02/15/22 13:30

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Naphthalene	0.038	J	0.039	0.0060	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2-Methylnaphthalene	0.056	J	0.079	0.0072	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Acenaphthene	0.034	J	0.039	0.0070	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Fluorene	0.023	J	0.039	0.0055	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
N-Nitrosodiphenylamine	0.12	J	0.20	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Phenanthrene	0.32		0.039	0.0055	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Anthracene	0.045		0.039	0.0065	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Fluoranthene	0.31		0.039	0.0073	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Pyrene	0.36		0.039	0.0078	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1
Benzo[a]anthracene	0.13		0.039	0.0053	mg/Kg	✱	02/23/22 16:17	02/24/22 15:48	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B26 (0-3)

Lab Sample ID: 500-212399-8

Date Collected: 02/15/22 13:30

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.16		0.039	0.011	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Benzo[b]fluoranthene	0.21		0.039	0.0085	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Benzo[k]fluoranthene	0.071		0.039	0.012	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Benzo[a]pyrene	0.14		0.039	0.0076	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Indeno[1,2,3-cd]pyrene	0.053		0.039	0.010	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Dibenz(a,h)anthracene	0.015 J		0.039	0.0076	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Benzo[g,h,i]perylene	0.058		0.039	0.013	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	02/23/22 16:17	02/24/22 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		31 - 166				02/23/22 16:17	02/24/22 15:48	1
Phenol-d5	94		30 - 153				02/23/22 16:17	02/24/22 15:48	1
Nitrobenzene-d5 (Surr)	88		37 - 147				02/23/22 16:17	02/24/22 15:48	1
2-Fluorobiphenyl (Surr)	91		43 - 145				02/23/22 16:17	02/24/22 15:48	1
2,4,6-Tribromophenol	113		31 - 143				02/23/22 16:17	02/24/22 15:48	1
Terphenyl-d14 (Surr)	132		42 - 157				02/23/22 16:17	02/24/22 15:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49 J		1.1	0.22	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Arsenic	6.9		0.57	0.20	mg/Kg	✳	02/25/22 10:35	02/27/22 19:32	1
Barium	38		0.57	0.065	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Beryllium	0.63		0.23	0.054	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Boron	17		2.9	0.27	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Cadmium	<0.11		0.11	0.021	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Calcium	58000 B		57	9.7	mg/Kg	✳	02/25/22 10:35	02/27/22 15:31	5
Chromium	18 B		0.57	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Cobalt	12		0.29	0.075	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Copper	30		0.57	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Iron	19000 B		11	6.0	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Lead	19		0.29	0.13	mg/Kg	✳	02/25/22 10:35	02/27/22 19:32	1
Magnesium	24000		5.7	2.8	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Manganese	300 B		0.57	0.083	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Nickel	33 B		0.57	0.17	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Potassium	3100		29	10	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Selenium	<0.57		0.57	0.34	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Silver	0.11 J		0.29	0.074	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Sodium	390		57	8.5	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Thallium	0.39 J		0.57	0.29	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Vanadium	19		0.29	0.068	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1
Zinc	47		1.1	0.50	mg/Kg	✳	02/25/22 10:35	02/25/22 19:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21 J		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 23:14	1
Boron	0.088 J		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:14	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B26 (0-3)

Lab Sample ID: 500-212399-8

Date Collected: 02/15/22 13:30

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 23:14	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:14	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:14	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 23:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 23:14	1
Manganese	1.4		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:14	1
Nickel	0.039		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:14	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 23:14	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:14	1
Zinc	0.034	J	0.50	0.020	mg/L		02/24/22 08:20	02/24/22 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 14:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 12:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.018	0.0061	mg/Kg	☆	02/24/22 18:30	02/25/22 18:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			02/18/22 20:09	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

GC/MS VOA

Prep Batch: 644159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	5035	
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	5035	
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	5035	
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	5035	
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	5035	
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	5035	
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	5035	
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	5035	
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 644234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	8260B	644159
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	8260B	644159
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	8260B	644159
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	8260B	644159
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	8260B	644159
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	8260B	644159
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	8260B	644159
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	8260B	644159
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	8260B	644159
MB 500-644234/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-644234/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644234/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	3541	
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	3541	
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	3541	
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	3541	
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	3541	
500-212399-5 - DL	2615V2-01-B23 (0-2)	Total/NA	Solid	3541	
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	3541	
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	3541	
500-212399-7 - DL	2615V2-01-B25 (0-2)	Total/NA	Solid	3541	
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	3541	
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	3541	
MB 500-644133/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644133/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 644198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	8270D	644133
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	8270D	644133
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	8270D	644133
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	8270D	644133

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

GC/MS Semi VOA

Analysis Batch: 644209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-644133/1-A	Method Blank	Total/NA	Solid	8270D	644133
LCS 500-644133/2-A	Lab Control Sample	Total/NA	Solid	8270D	644133

Analysis Batch: 644215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	8270D	644133
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	8270D	644133

Analysis Batch: 644447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	8270D	644133
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	8270D	644133
500-212399-5 - DL	2615V2-01-B23 (0-2)	Total/NA	Solid	8270D	644133
500-212399-7 - DL	2615V2-01-B25 (0-2)	Total/NA	Solid	8270D	644133
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	8270D	644133

Metals

Leach Batch: 643913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	TCLP	Solid	1311	
500-212399-2	2615V2-01-B20 (0-3)	TCLP	Solid	1311	
500-212399-3	2615V2-01-B21 (0-1)	TCLP	Solid	1311	
500-212399-5	2615V2-01-B23 (0-2)	TCLP	Solid	1311	
500-212399-6	2615V2-01-B24 (0-1)	TCLP	Solid	1311	
500-212399-7	2615V2-01-B25 (0-2)	TCLP	Solid	1311	
500-212399-8	2615V2-01-B26 (0-3)	TCLP	Solid	1311	
500-212399-9	2615V2-01-B27 (0-3)	TCLP	Solid	1311	
LB 500-643913/2-B	Method Blank	TCLP	Solid	1311	
LB 500-643913/2-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 643914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-4	2615V2-01-B22 (0-0.5)	TCLP	Solid	1311	
LB2 500-643914/2-B	Method Blank	TCLP	Solid	1311	
LB2 500-643914/2-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 643921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	SPLP East	Solid	1312	
500-212399-2	2615V2-01-B20 (0-3)	SPLP East	Solid	1312	
500-212399-3	2615V2-01-B21 (0-1)	SPLP East	Solid	1312	
500-212399-5	2615V2-01-B23 (0-2)	SPLP East	Solid	1312	
500-212399-6	2615V2-01-B24 (0-1)	SPLP East	Solid	1312	
500-212399-7	2615V2-01-B25 (0-2)	SPLP East	Solid	1312	
500-212399-8	2615V2-01-B26 (0-3)	SPLP East	Solid	1312	
500-212399-9	2615V2-01-B27 (0-3)	SPLP East	Solid	1312	
LB 500-643921/1-B	Method Blank	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.

Job ID: 500-212399-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Metals

Prep Batch: 644075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	TCLP	Solid	7470A	643913
500-212399-2	2615V2-01-B20 (0-3)	TCLP	Solid	7470A	643913
500-212399-3	2615V2-01-B21 (0-1)	TCLP	Solid	7470A	643913
500-212399-4	2615V2-01-B22 (0-0.5)	TCLP	Solid	7470A	643914
500-212399-5	2615V2-01-B23 (0-2)	TCLP	Solid	7470A	643913
500-212399-6	2615V2-01-B24 (0-1)	TCLP	Solid	7470A	643913
500-212399-7	2615V2-01-B25 (0-2)	TCLP	Solid	7470A	643913
500-212399-8	2615V2-01-B26 (0-3)	TCLP	Solid	7470A	643913
500-212399-9	2615V2-01-B27 (0-3)	TCLP	Solid	7470A	643913
LB 500-643913/2-B	Method Blank	TCLP	Solid	7470A	643913
LB2 500-643914/2-B	Method Blank	TCLP	Solid	7470A	643914
MB 500-644075/13-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-644075/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-644075/35-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 644281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	TCLP	Solid	3010A	643913
500-212399-2	2615V2-01-B20 (0-3)	TCLP	Solid	3010A	643913
500-212399-3	2615V2-01-B21 (0-1)	TCLP	Solid	3010A	643913
500-212399-4	2615V2-01-B22 (0-0.5)	TCLP	Solid	3010A	643914
500-212399-5	2615V2-01-B23 (0-2)	TCLP	Solid	3010A	643913
500-212399-6	2615V2-01-B24 (0-1)	TCLP	Solid	3010A	643913
500-212399-7	2615V2-01-B25 (0-2)	TCLP	Solid	3010A	643913
500-212399-8	2615V2-01-B26 (0-3)	TCLP	Solid	3010A	643913
500-212399-9	2615V2-01-B27 (0-3)	TCLP	Solid	3010A	643913
LB 500-643913/2-C	Method Blank	TCLP	Solid	3010A	643913
LB2 500-643914/2-C	Method Blank	TCLP	Solid	3010A	643914
LCS 500-644281/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	SPLP East	Solid	3010A	643921
500-212399-2	2615V2-01-B20 (0-3)	SPLP East	Solid	3010A	643921
500-212399-3	2615V2-01-B21 (0-1)	SPLP East	Solid	3010A	643921
500-212399-5	2615V2-01-B23 (0-2)	SPLP East	Solid	3010A	643921
500-212399-6	2615V2-01-B24 (0-1)	SPLP East	Solid	3010A	643921
500-212399-7	2615V2-01-B25 (0-2)	SPLP East	Solid	3010A	643921
500-212399-8	2615V2-01-B26 (0-3)	SPLP East	Solid	3010A	643921
500-212399-9	2615V2-01-B27 (0-3)	SPLP East	Solid	3010A	643921
LB 500-643921/1-B	Method Blank	SPLP East	Solid	3010A	643921
LCS 500-644290/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	3050B	
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	3050B	
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	3050B	
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	3050B	
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	3050B	
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	3050B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Metals (Continued)

Prep Batch: 644323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	3050B	
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	3050B	
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	3050B	
MB 500-644323/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644323/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 644343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	7471B	
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	7471B	
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	7471B	
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	7471B	
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	7471B	
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	7471B	
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	7471B	
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	7471B	
MB 500-644343/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-644343/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-212399-1 MS	2615V2-01-B19 (0-3)	Total/NA	Solid	7471B	
500-212399-1 MSD	2615V2-01-B19 (0-3)	Total/NA	Solid	7471B	
500-212399-1 DU	2615V2-01-B19 (0-3)	Total/NA	Solid	7471B	

Analysis Batch: 644370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	TCLP	Solid	7470A	644075
500-212399-2	2615V2-01-B20 (0-3)	TCLP	Solid	7470A	644075
500-212399-3	2615V2-01-B21 (0-1)	TCLP	Solid	7470A	644075
500-212399-4	2615V2-01-B22 (0-0.5)	TCLP	Solid	7470A	644075
500-212399-5	2615V2-01-B23 (0-2)	TCLP	Solid	7470A	644075
500-212399-6	2615V2-01-B24 (0-1)	TCLP	Solid	7470A	644075
500-212399-7	2615V2-01-B25 (0-2)	TCLP	Solid	7470A	644075
500-212399-8	2615V2-01-B26 (0-3)	TCLP	Solid	7470A	644075
500-212399-9	2615V2-01-B27 (0-3)	TCLP	Solid	7470A	644075
LB 500-643913/2-B	Method Blank	TCLP	Solid	7470A	644075
LB2 500-643914/2-B	Method Blank	TCLP	Solid	7470A	644075
MB 500-644075/13-A	Method Blank	Total/NA	Solid	7470A	644075
LCS 500-644075/14-A	Lab Control Sample	Total/NA	Solid	7470A	644075
LCS 500-644075/35-A	Lab Control Sample	Total/NA	Solid	7470A	644075

Analysis Batch: 644485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	TCLP	Solid	6020A	644281
500-212399-2	2615V2-01-B20 (0-3)	TCLP	Solid	6020A	644281
500-212399-3	2615V2-01-B21 (0-1)	TCLP	Solid	6020A	644281
500-212399-4	2615V2-01-B22 (0-0.5)	TCLP	Solid	6020A	644281
500-212399-5	2615V2-01-B23 (0-2)	TCLP	Solid	6020A	644281
500-212399-6	2615V2-01-B24 (0-1)	TCLP	Solid	6020A	644281
500-212399-7	2615V2-01-B25 (0-2)	TCLP	Solid	6020A	644281
500-212399-8	2615V2-01-B26 (0-3)	TCLP	Solid	6020A	644281
500-212399-9	2615V2-01-B27 (0-3)	TCLP	Solid	6020A	644281
LB 500-643913/2-C	Method Blank	TCLP	Solid	6020A	644281

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Metals (Continued)

Analysis Batch: 644485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB2 500-643914/2-C	Method Blank	TCLP	Solid	6020A	644281

Analysis Batch: 644517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	TCLP	Solid	6010B	644281
500-212399-2	2615V2-01-B20 (0-3)	TCLP	Solid	6010B	644281
500-212399-3	2615V2-01-B21 (0-1)	TCLP	Solid	6010B	644281
500-212399-4	2615V2-01-B22 (0-0.5)	TCLP	Solid	6010B	644281
500-212399-5	2615V2-01-B23 (0-2)	TCLP	Solid	6010B	644281
500-212399-6	2615V2-01-B24 (0-1)	TCLP	Solid	6010B	644281
500-212399-7	2615V2-01-B25 (0-2)	TCLP	Solid	6010B	644281
500-212399-8	2615V2-01-B26 (0-3)	TCLP	Solid	6010B	644281
500-212399-9	2615V2-01-B27 (0-3)	TCLP	Solid	6010B	644281
LB 500-643913/2-C	Method Blank	TCLP	Solid	6010B	644281
LB2 500-643914/2-C	Method Blank	TCLP	Solid	6010B	644281

Analysis Batch: 644561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644281/2-A	Lab Control Sample	Total/NA	Solid	6020A	644281

Analysis Batch: 644565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644281/2-A	Lab Control Sample	Total/NA	Solid	6010B	644281

Prep Batch: 644587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	7471B	
MB 500-644587/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-644587/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 644606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	7471B	644343
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	7471B	644343
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	7471B	644343
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	7471B	644343
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	7471B	644343
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	7471B	644343
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	7471B	644343
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	7471B	644343
MB 500-644343/12-A	Method Blank	Total/NA	Solid	7471B	644343
LCS 500-644343/13-A	Lab Control Sample	Total/NA	Solid	7471B	644343
500-212399-1 MS	2615V2-01-B19 (0-3)	Total/NA	Solid	7471B	644343
500-212399-1 MSD	2615V2-01-B19 (0-3)	Total/NA	Solid	7471B	644343
500-212399-1 DU	2615V2-01-B19 (0-3)	Total/NA	Solid	7471B	644343

Analysis Batch: 644645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	6010B	644323
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	6010B	644323
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	6010B	644323

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Metals (Continued)

Analysis Batch: 644645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	6010B	644323
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	6010B	644323
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	6010B	644323
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	6010B	644323
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	6010B	644323
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	6010B	644323
MB 500-644323/1-A	Method Blank	Total/NA	Solid	6010B	644323
LCS 500-644323/2-A	Lab Control Sample	Total/NA	Solid	6010B	644323

Analysis Batch: 644657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-4	2615V2-01-B22 (0-0.5)	TCLP	Solid	6010B	644281

Analysis Batch: 644767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	6010B	644323
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	6010B	644323
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	6010B	644323
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	6010B	644323
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	6010B	644323
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	6010B	644323
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	6010B	644323
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	6010B	644323
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	6010B	644323
LCS 500-644323/2-A	Lab Control Sample	Total/NA	Solid	6010B	644323

Analysis Batch: 644768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	6010B	644323
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	6010B	644323
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	6010B	644323
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	6010B	644323
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	6010B	644323
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	6010B	644323
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	6010B	644323
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	6010B	644323
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	6010B	644323

Analysis Batch: 644872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	6010B	644323

Analysis Batch: 644873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	SPLP East	Solid	6010B	644290
500-212399-2	2615V2-01-B20 (0-3)	SPLP East	Solid	6010B	644290
500-212399-3	2615V2-01-B21 (0-1)	SPLP East	Solid	6010B	644290
500-212399-5	2615V2-01-B23 (0-2)	SPLP East	Solid	6010B	644290
500-212399-6	2615V2-01-B24 (0-1)	SPLP East	Solid	6010B	644290
500-212399-7	2615V2-01-B25 (0-2)	SPLP East	Solid	6010B	644290
500-212399-8	2615V2-01-B26 (0-3)	SPLP East	Solid	6010B	644290

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Metals (Continued)

Analysis Batch: 644873 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-9	2615V2-01-B27 (0-3)	SPLP East	Solid	6010B	644290
LB 500-643921/1-B	Method Blank	SPLP East	Solid	6010B	644290
LCS 500-644290/2-A	Lab Control Sample	Total/NA	Solid	6010B	644290

Analysis Batch: 645094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	7471B	644587
MB 500-644587/12-A	Method Blank	Total/NA	Solid	7471B	644587
LCS 500-644587/13-A	Lab Control Sample	Total/NA	Solid	7471B	644587

General Chemistry

Analysis Batch: 643153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	Moisture	
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	Moisture	
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	Moisture	
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	Moisture	
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	Moisture	
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	Moisture	
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	Moisture	
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	Moisture	
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	Moisture	
500-212399-4 DU	2615V2-01-B22 (0-0.5)	Total/NA	Solid	Moisture	

Analysis Batch: 643430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212399-1	2615V2-01-B19 (0-3)	Total/NA	Solid	9045D	
500-212399-2	2615V2-01-B20 (0-3)	Total/NA	Solid	9045D	
500-212399-3	2615V2-01-B21 (0-1)	Total/NA	Solid	9045D	
500-212399-4	2615V2-01-B22 (0-0.5)	Total/NA	Solid	9045D	
500-212399-5	2615V2-01-B23 (0-2)	Total/NA	Solid	9045D	
500-212399-6	2615V2-01-B24 (0-1)	Total/NA	Solid	9045D	
500-212399-7	2615V2-01-B25 (0-2)	Total/NA	Solid	9045D	
500-212399-8	2615V2-01-B26 (0-3)	Total/NA	Solid	9045D	
500-212399-9	2615V2-01-B27 (0-3)	Total/NA	Solid	9045D	
LCS 500-643430/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-643430/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-212399-4 DU	2615V2-01-B22 (0-0.5)	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-212399-1	2615V2-01-B19 (0-3)	123	115	116	119
500-212399-2	2615V2-01-B20 (0-3)	127	116	114	119
500-212399-3	2615V2-01-B21 (0-1)	130	120	116	121
500-212399-4	2615V2-01-B22 (0-0.5)	140 *3 S1+	107	115	124
500-212399-5	2615V2-01-B23 (0-2)	137 S1+	116	112	120
500-212399-6	2615V2-01-B24 (0-1)	120	117	113	117
500-212399-7	2615V2-01-B25 (0-2)	130	115	111	119
500-212399-8	2615V2-01-B26 (0-3)	123	117	113	117
500-212399-9	2615V2-01-B27 (0-3)	145 *3 S1+	116	114	126 S1+
LCS 500-644234/7	Lab Control Sample	106	118	103	116
LCSD 500-644234/4	Lab Control Sample Dup	105	117	104	115
MB 500-644234/6	Method Blank	109	111	105	114

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-212399-1	2615V2-01-B19 (0-3)	80	69	75	87	80	120
500-212399-2	2615V2-01-B20 (0-3)	66	63	63	78	77	121
500-212399-3	2615V2-01-B21 (0-1)	89	92	58	78	69	154
500-212399-4	2615V2-01-B22 (0-0.5)	76	84	56	83	32	167 S1+
500-212399-5	2615V2-01-B23 (0-2)	91	86	77	88	109	104
500-212399-5 - DL	2615V2-01-B23 (0-2)	106	39	51	69	66	155 *3
500-212399-6	2615V2-01-B24 (0-1)	87	82	70	81	102	108
500-212399-7	2615V2-01-B25 (0-2)	91	86	81	86	107	122
500-212399-7 - DL	2615V2-01-B25 (0-2)	108	50	39	73	67	173 *3 S1+
500-212399-8	2615V2-01-B26 (0-3)	98	94	88	91	113	132
500-212399-9	2615V2-01-B27 (0-3)	78	70	53	75	65	160 S1+
LCS 500-644133/2-A	Lab Control Sample	95	103	81	101	77	97
MB 500-644133/1-A	Method Blank	100	93	77	91	58	108

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: MB 500-644234/6
Matrix: Solid
Analysis Batch: 644234

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/24/22 10:41	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/24/22 10:41	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/24/22 10:41	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/24/22 10:41	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/24/22 10:41	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/24/22 10:41	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/24/22 10:41	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/24/22 10:41	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/24/22 10:41	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/24/22 10:41	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 10:41	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/24/22 10:41	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/24/22 10:41	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/24/22 10:41	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/24/22 10:41	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 10:41	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/24/22 10:41	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 10:41	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/24/22 10:41	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/24/22 10:41	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/24/22 10:41	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/24/22 10:41	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/24/22 10:41	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/24/22 10:41	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/24/22 10:41	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/24/22 10:41	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/24/22 10:41	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/24/22 10:41	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/24/22 10:41	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/24/22 10:41	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/24/22 10:41	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/24/22 10:41	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/24/22 10:41	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/24/22 10:41	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/24/22 10:41	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/24/22 10:41	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/24/22 10:41	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	109		75 - 131		02/24/22 10:41	1
Dibromofluoromethane	111		75 - 126		02/24/22 10:41	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		02/24/22 10:41	1
Toluene-d8 (Surr)	114		75 - 124		02/24/22 10:41	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: LCS 500-644234/7

Matrix: Solid

Analysis Batch: 644234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0386		mg/Kg		77	40 - 150
Benzene	0.0500	0.0420		mg/Kg		84	70 - 125
Bromodichloromethane	0.0500	0.0393		mg/Kg		79	67 - 129
Bromoform	0.0500	0.0383		mg/Kg		77	68 - 136
Bromomethane	0.0500	0.0530		mg/Kg		106	70 - 130
2-Butanone (MEK)	0.0500	0.0378		mg/Kg		76	47 - 138
Carbon disulfide	0.0500	0.0437		mg/Kg		87	70 - 129
Carbon tetrachloride	0.0500	0.0457		mg/Kg		91	75 - 125
Chlorobenzene	0.0500	0.0420		mg/Kg		84	50 - 150
Chloroethane	0.0500	0.0556		mg/Kg		111	75 - 125
Chloroform	0.0500	0.0417		mg/Kg		83	57 - 135
Chloromethane	0.0500	0.0411		mg/Kg		82	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0428		mg/Kg		86	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0388		mg/Kg		78	70 - 125
Dibromochloromethane	0.0500	0.0410		mg/Kg		82	69 - 125
1,1-Dichloroethane	0.0500	0.0425		mg/Kg		85	70 - 125
1,2-Dichloroethane	0.0500	0.0393		mg/Kg		79	70 - 130
1,1-Dichloroethene	0.0500	0.0440		mg/Kg		88	70 - 120
1,2-Dichloropropane	0.0500	0.0386		mg/Kg		77	70 - 125
Ethylbenzene	0.0500	0.0431		mg/Kg		86	61 - 136
2-Hexanone	0.0500	0.0400		mg/Kg		80	48 - 146
Methylene Chloride	0.0500	0.0452		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0397		mg/Kg		79	50 - 148
Methyl tert-butyl ether	0.0500	0.0399		mg/Kg		80	50 - 140
Styrene	0.0500	0.0419		mg/Kg		84	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0371		mg/Kg		74	70 - 122
Tetrachloroethene	0.0500	0.0446		mg/Kg		89	70 - 124
Toluene	0.0500	0.0416		mg/Kg		83	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0437		mg/Kg		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0382		mg/Kg		76	70 - 125
1,1,1-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 128
1,1,2-Trichloroethane	0.0500	0.0391		mg/Kg		78	70 - 125
Trichloroethene	0.0500	0.0436		mg/Kg		87	70 - 125
Vinyl acetate	0.0500	0.0313		mg/Kg		63	40 - 153
Vinyl chloride	0.0500	0.0451		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0843		mg/Kg		84	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		75 - 131
Dibromofluoromethane	118		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	116		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: LCSD 500-644234/4
Matrix: Solid
Analysis Batch: 644234

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0440		mg/Kg		88	40 - 150	13	30
Benzene	0.0500	0.0459		mg/Kg		92	70 - 125	9	30
Bromodichloromethane	0.0500	0.0441		mg/Kg		88	67 - 129	11	30
Bromoform	0.0500	0.0452		mg/Kg		90	68 - 136	16	30
Bromomethane	0.0500	0.0466		mg/Kg		93	70 - 130	13	30
2-Butanone (MEK)	0.0500	0.0453		mg/Kg		91	47 - 138	18	30
Carbon disulfide	0.0500	0.0469		mg/Kg		94	70 - 129	7	30
Carbon tetrachloride	0.0500	0.0502		mg/Kg		100	75 - 125	9	30
Chlorobenzene	0.0500	0.0460		mg/Kg		92	50 - 150	9	30
Chloroethane	0.0500	0.0523		mg/Kg		105	75 - 125	6	30
Chloroform	0.0500	0.0454		mg/Kg		91	57 - 135	9	30
Chloromethane	0.0500	0.0379		mg/Kg		76	70 - 125	8	30
cis-1,2-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 125	10	30
cis-1,3-Dichloropropene	0.0500	0.0419		mg/Kg		84	70 - 125	8	30
Dibromochloromethane	0.0500	0.0460		mg/Kg		92	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0462		mg/Kg		92	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0429		mg/Kg		86	70 - 130	9	30
1,1-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 120	8	30
1,2-Dichloropropane	0.0500	0.0432		mg/Kg		86	70 - 125	11	30
Ethylbenzene	0.0500	0.0475		mg/Kg		95	61 - 136	10	30
2-Hexanone	0.0500	0.0469		mg/Kg		94	48 - 146	16	30
Methylene Chloride	0.0500	0.0489		mg/Kg		98	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0445		mg/Kg		89	50 - 148	11	30
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140	14	30
Styrene	0.0500	0.0476		mg/Kg		95	70 - 125	13	30
1,1,2,2-Tetrachloroethane	0.0500	0.0429		mg/Kg		86	70 - 122	15	30
Tetrachloroethene	0.0500	0.0478		mg/Kg		96	70 - 124	7	30
Toluene	0.0500	0.0452		mg/Kg		90	70 - 125	8	30
trans-1,2-Dichloroethene	0.0500	0.0483		mg/Kg		97	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0428		mg/Kg		86	70 - 125	11	30
1,1,1-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0431		mg/Kg		86	70 - 125	10	30
Trichloroethene	0.0500	0.0474		mg/Kg		95	70 - 125	8	30
Vinyl acetate	0.0500	0.0315		mg/Kg		63	40 - 153	1	30
Vinyl chloride	0.0500	0.0430		mg/Kg		86	70 - 125	5	30
Xylenes, Total	0.100	0.0923		mg/Kg		92	53 - 147	9	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		75 - 131
Dibromofluoromethane	117		75 - 126
1,2-Dichloroethane-d4 (Surr)	104		70 - 134
Toluene-d8 (Surr)	115		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: MB 500-644133/1-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644133

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/23/22 16:17	02/24/22 11:21	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: MB 500-644133/1-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/23/22 16:17	02/24/22 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		31 - 166	02/23/22 16:17	02/24/22 11:21	1
Phenol-d5	93		30 - 153	02/23/22 16:17	02/24/22 11:21	1
Nitrobenzene-d5 (Surr)	77		37 - 147	02/23/22 16:17	02/24/22 11:21	1
2-Fluorobiphenyl (Surr)	91		43 - 145	02/23/22 16:17	02/24/22 11:21	1
2,4,6-Tribromophenol	58		31 - 143	02/23/22 16:17	02/24/22 11:21	1
Terphenyl-d14 (Surr)	108		42 - 157	02/23/22 16:17	02/24/22 11:21	1

Lab Sample ID: LCS 500-644133/2-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.26		mg/Kg		95	56 - 122
Bis(2-chloroethyl)ether	1.33	1.32		mg/Kg		99	55 - 111
1,3-Dichlorobenzene	1.33	1.09		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.13		mg/Kg		85	62 - 110
2-Methylphenol	1.33	1.22		mg/Kg		91	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.13		mg/Kg		85	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.11		mg/Kg		84	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.29		mg/Kg		96	64 - 110
Nitrobenzene	1.33	1.14		mg/Kg		86	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.14		mg/Kg		85	60 - 112
1,2,4-Trichlorobenzene	1.33	1.15		mg/Kg		86	66 - 117
Isophorone	1.33	1.12		mg/Kg		84	55 - 110
2,4-Dimethylphenol	1.33	1.11		mg/Kg		83	60 - 110
Hexachlorobutadiene	1.33	1.18		mg/Kg		88	56 - 120
Naphthalene	1.33	1.16		mg/Kg		87	63 - 110
2,4-Dichlorophenol	1.33	1.19		mg/Kg		89	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: LCS 500-644133/2-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.09		mg/Kg		82	30 - 150
2,4,6-Trichlorophenol	1.33	1.06		mg/Kg		79	57 - 120
2,4,5-Trichlorophenol	1.33	1.16		mg/Kg		87	50 - 120
Hexachlorocyclopentadiene	1.33	0.284	J	mg/Kg		21	10 - 133
2-Methylnaphthalene	1.33	1.25		mg/Kg		94	69 - 112
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
2-Chloronaphthalene	1.33	1.20		mg/Kg		90	69 - 114
4-Chloro-3-methylphenol	1.33	1.20		mg/Kg		90	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	1.02		mg/Kg		77	40 - 122
Dimethyl phthalate	1.33	1.18		mg/Kg		89	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		13	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.22		mg/Kg		92	69 - 124
Acenaphthene	1.33	1.18		mg/Kg		89	65 - 124
Dibenzofuran	1.33	1.24		mg/Kg		93	66 - 115
4-Nitrophenol	2.67	2.09		mg/Kg		78	30 - 122
Fluorene	1.33	1.27		mg/Kg		95	62 - 120
4-Nitroaniline	1.33	1.27		mg/Kg		95	60 - 160
4-Bromophenyl phenyl ether	1.33	1.18		mg/Kg		88	68 - 118
Hexachlorobenzene	1.33	1.22		mg/Kg		91	63 - 124
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.26		mg/Kg		95	62 - 119
Pentachlorophenol	2.67	0.685		mg/Kg		26	13 - 112
N-Nitrosodiphenylamine	1.33	1.22		mg/Kg		92	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.732		mg/Kg		27	10 - 110
Phenanthrene	1.33	1.21		mg/Kg		90	62 - 120
Anthracene	1.33	1.25		mg/Kg		94	70 - 114
Carbazole	1.33	1.55		mg/Kg		116	65 - 142
Di-n-butyl phthalate	1.33	1.28		mg/Kg		96	65 - 120
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Pyrene	1.33	1.22		mg/Kg		91	61 - 128
Butyl benzyl phthalate	1.33	1.22		mg/Kg		92	71 - 129
Benzo[a]anthracene	1.33	1.17		mg/Kg		88	67 - 122
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
3,3'-Dichlorobenzidine	1.33	1.02		mg/Kg		76	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.28		mg/Kg		96	68 - 134
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		102	68 - 127
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.45		mg/Kg		108	68 - 130
Dibenz(a,h)anthracene	1.33	1.29		mg/Kg		97	64 - 131
Benzo[g,h,i]perylene	1.33	1.37		mg/Kg		103	72 - 131
3 & 4 Methylphenol	1.33	1.19		mg/Kg		89	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: LCS 500-644133/2-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644133

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	95		31 - 166
Phenol-d5	103		30 - 153
Nitrobenzene-d5 (Surr)	81		37 - 147
2-Fluorobiphenyl (Surr)	101		43 - 145
2,4,6-Tribromophenol	77		31 - 143
Terphenyl-d14 (Surr)	97		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-644281/2-A
Matrix: Solid
Analysis Batch: 644565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644281

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.514		mg/L		103	80 - 120
Beryllium	0.0500	0.0475		mg/L		95	80 - 120
Boron	1.00	0.892		mg/L		89	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Iron	1.00	0.926		mg/L		93	80 - 120
Lead	0.100	0.0948		mg/L		95	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.493		mg/L		99	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Silver	0.0500	0.0527		mg/L		105	80 - 120
Zinc	0.500	0.541		mg/L		108	80 - 120

Lab Sample ID: LCS 500-644290/2-A
Matrix: Solid
Analysis Batch: 644873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644290

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Lead	0.100	0.0947		mg/L		95	80 - 120
Manganese	0.500	0.478		mg/L		96	80 - 120
Nickel	0.500	0.506		mg/L		101	80 - 120

Lab Sample ID: MB 500-644323/1-A
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644323

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Barium	<1.0		1.0	0.11	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Boron	<5.0		5.0	0.47	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Cadmium	0.0485	J	0.20	0.036	mg/Kg		02/25/22 10:35	02/25/22 18:59	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: MB 500-644323/1-A
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644323

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	6.81	J	20	3.4	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Chromium	1.18		1.0	0.50	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Copper	<1.0		1.0	0.28	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Iron	16.2	J	20	10	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Lead	<0.50		0.50	0.23	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Magnesium	<10		10	5.0	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Manganese	0.202	J	1.0	0.15	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Nickel	0.414	J	1.0	0.29	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Potassium	<50		50	18	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Silver	<0.50		0.50	0.13	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Sodium	<100		100	15	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/25/22 10:35	02/25/22 18:59	1

Lab Sample ID: LCS 500-644323/2-A
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	184		mg/Kg		92	80 - 120
Beryllium	5.00	4.64		mg/Kg		93	80 - 120
Boron	100	81.7		mg/Kg		82	80 - 120
Cadmium	5.00	4.47		mg/Kg		89	80 - 120
Calcium	1000	925		mg/Kg		92	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Cobalt	50.0	45.8		mg/Kg		92	80 - 120
Copper	25.0	23.4		mg/Kg		94	80 - 120
Iron	100	111		mg/Kg		111	80 - 120
Lead	10.0	9.39		mg/Kg		94	80 - 120
Magnesium	1000	884		mg/Kg		88	80 - 120
Manganese	50.0	46.3		mg/Kg		93	80 - 120
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Potassium	1000	902		mg/Kg		90	80 - 120
Selenium	10.0	8.01		mg/Kg		80	80 - 120
Silver	5.00	4.47		mg/Kg		89	80 - 120
Sodium	1000	905		mg/Kg		91	80 - 120
Thallium	10.0	8.93		mg/Kg		89	80 - 120
Vanadium	50.0	45.3		mg/Kg		91	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: LCS 500-644323/2-A
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644323
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	8.64		mg/Kg		86	80 - 120

Lab Sample ID: LB 500-643913/2-C
Matrix: Solid
Analysis Batch: 644517

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644281

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:11	1
Boron	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 22:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Cobalt	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 22:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 22:11	1
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Nickel	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 22:11	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Zinc	<0.50		0.50	0.020	mg/L		02/24/22 08:20	02/24/22 22:11	1

Lab Sample ID: LB2 500-643914/2-C
Matrix: Solid
Analysis Batch: 644517

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644281

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 23:42	1
Boron	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 23:42	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Cobalt	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 23:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 23:42	1
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Nickel	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 23:42	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Zinc	<0.50		0.50	0.020	mg/L		02/24/22 08:20	02/24/22 23:42	1

Lab Sample ID: LB 500-643921/1-B
Matrix: Solid
Analysis Batch: 644873

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644290

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:23	02/28/22 13:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:23	02/28/22 13:02	1
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:02	1
Nickel	<0.025		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:02	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644281/2-A
Matrix: Solid
Analysis Batch: 644561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644281
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.516		mg/L		103	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LB 500-643913/2-C
Matrix: Solid
Analysis Batch: 644485

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644281

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:19	1

Lab Sample ID: LB2 500-643914/2-C
Matrix: Solid
Analysis Batch: 644485

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644281

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 19:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 19:14	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644075/13-A
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:35	1

Lab Sample ID: LCS 500-644075/14-A
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644075
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00194	^1+	mg/L		97	80 - 120

Lab Sample ID: LCS 500-644075/35-A
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644075
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00214	^1+	mg/L		107	80 - 120

Lab Sample ID: LB 500-643913/2-B
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644075

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:32	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB2 500-643914/2-B
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644075

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 12:38	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-644343/12-A
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644343

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.017		0.017	0.0056	mg/Kg		02/24/22 18:30	02/25/22 17:40	1

Lab Sample ID: LCS 500-644343/13-A
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 500-212399-1 MS
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: 2615V2-01-B19 (0-3)
Prep Type: Total/NA
Prep Batch: 644343

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 500-212399-1 MSD
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: 2615V2-01-B19 (0-3)
Prep Type: Total/NA
Prep Batch: 644343

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

Lab Sample ID: 500-212399-1 DU
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: 2615V2-01-B19 (0-3)
Prep Type: Total/NA
Prep Batch: 644343

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit

Lab Sample ID: MB 500-644587/12-A
Matrix: Solid
Analysis Batch: 645094

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644587

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.017		0.017	0.0056	mg/Kg		02/28/22 18:45	03/01/22 10:22	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

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

Lab Sample ID: LCS 500-644587/13-A
Matrix: Solid
Analysis Batch: 645094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.137		mg/Kg		82	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-212399-4 DU
Matrix: Solid
Analysis Batch: 643430

Client Sample ID: 2615V2-01-B22 (0-0.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.9		9.9		SU		0.1	

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

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B19 (0-3)

Lab Sample ID: 500-212399-1

Date Collected: 02/15/22 09:00

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:31	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 22:53	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:45	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 11:58	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:47	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-01-B19 (0-3)

Lab Sample ID: 500-212399-1

Date Collected: 02/15/22 09:00

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 12:28	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644215	02/24/22 17:23	SS	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:03	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:12	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:03	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 17:44	MJG	TAL CHI

Client Sample ID: 2615V2-01-B20 (0-3)

Lab Sample ID: 500-212399-2

Date Collected: 02/15/22 09:22

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:34	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 22:56	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B20 (0-3)

Lab Sample ID: 500-212399-2

Date Collected: 02/15/22 09:22

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:47	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:00	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:50	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-01-B20 (0-3)

Lab Sample ID: 500-212399-2

Date Collected: 02/15/22 09:22

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 12:55	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644215	02/24/22 17:45	SS	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:06	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:15	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:12	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 17:55	MJG	TAL CHI

Client Sample ID: 2615V2-01-B21 (0-1)

Lab Sample ID: 500-212399-3

Date Collected: 02/15/22 09:38

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:38	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:00	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:49	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:52	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B21 (0-1)

Lab Sample ID: 500-212399-3

Date Collected: 02/15/22 09:38

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-01-B21 (0-1)

Lab Sample ID: 500-212399-3

Date Collected: 02/15/22 09:38

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 13:22	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644447	02/25/22 15:50	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:09	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:19	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:15	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 17:57	MJG	TAL CHI

Client Sample ID: 2615V2-01-B22 (0-0.5)

Lab Sample ID: 500-212399-4

Date Collected: 02/15/22 10:30

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643914	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644657	02/25/22 16:19	JJB	TAL CHI
TCLP	Leach	1311			643914	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:52	JJB	TAL CHI
TCLP	Leach	1311			643914	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 19:20	FXG	TAL CHI
TCLP	Leach	1311			643914	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:47	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:57	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B22 (0-0.5)
Date Collected: 02/15/22 10:30
Date Received: 02/15/22 17:32

Lab Sample ID: 500-212399-4
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 13:49	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644447	02/25/22 16:11	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:12	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:22	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:18	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		10	644872	02/28/22 11:38	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 17:59	MJG	TAL CHI

Client Sample ID: 2615V2-01-B23 (0-2)
Date Collected: 02/15/22 11:20
Date Received: 02/15/22 17:32

Lab Sample ID: 500-212399-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:51	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:03	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:51	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:05	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 20:02	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-01-B23 (0-2)
Date Collected: 02/15/22 11:20
Date Received: 02/15/22 17:32

Lab Sample ID: 500-212399-5
Matrix: Solid
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 14:15	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644198	02/24/22 14:36	SS	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B23 (0-2)

Lab Sample ID: 500-212399-5

Date Collected: 02/15/22 11:20

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D	DL	10	644447	02/25/22 16:32	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:16	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:26	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:22	JJB	TAL CHI
Total/NA	Prep	7471B			644587	02/28/22 18:45		TAL CHI
Total/NA	Analysis	7471B		1	645094	03/01/22 13:29	MJG	TAL CHI

Client Sample ID: 2615V2-01-B24 (0-1)

Lab Sample ID: 500-212399-6

Date Collected: 02/15/22 11:25

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:55	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:07	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:53	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:08	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 20:04	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-01-B24 (0-1)

Lab Sample ID: 500-212399-6

Date Collected: 02/15/22 11:25

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 14:42	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644198	02/24/22 15:00	SS	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:19	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:29	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B24 (0-1)

Lab Sample ID: 500-212399-6

Date Collected: 02/15/22 11:25

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:25	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:03	MJG	TAL CHI

Client Sample ID: 2615V2-01-B25 (0-2)

Lab Sample ID: 500-212399-7

Date Collected: 02/15/22 12:50

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 14:00	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:10	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:55	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:10	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 20:07	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-01-B25 (0-2)

Lab Sample ID: 500-212399-7

Date Collected: 02/15/22 12:50

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 15:09	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644198	02/24/22 15:24	SS	TAL CHI
Total/NA	Prep	3541	DL		644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D	DL	10	644447	02/25/22 16:53	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:22	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:33	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:28	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:05	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B26 (0-3)

Lab Sample ID: 500-212399-8

Date Collected: 02/15/22 13:30

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 14:04	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:14	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:58	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:13	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 20:09	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-01-B26 (0-3)

Lab Sample ID: 500-212399-8

Date Collected: 02/15/22 13:30

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 15:36	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644198	02/24/22 15:48	SS	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:32	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:36	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:31	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:07	MJG	TAL CHI

Client Sample ID: 2615V2-01-B27 (0-3)

Lab Sample ID: 500-212399-9

Date Collected: 02/15/22 13:10

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 14:07	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:24	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Client Sample ID: 2615V2-01-B27 (0-3)

Lab Sample ID: 500-212399-9

Date Collected: 02/15/22 13:10

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 19:04	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:15	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 20:12	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-01-B27 (0-3)

Lab Sample ID: 500-212399-9

Date Collected: 02/15/22 13:10

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 16:02	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644447	02/25/22 17:14	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:35	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:39	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:34	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:09	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212399-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

Chain of Custody Record

542658



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact	
Company Name	WSP
Address	
City/State/Zip	
Phone	500-212399 COC
Fax	
Project Name	WO 08 Greenway
Site	FAI 91/94/290
P O #	



Project Manager: D. Tiebout	Site Contact: D. Wright	Date: 2/15/22	COC No: _____ of 2 COCs
Tel/Email: _____		Lab Contact: _____	Carrier: _____

Analysis Turnaround Time

CALENDAR DAYS WORKING DAYS

TAT if different from Below _____

2 weeks

1 week (standard)

2 days

1 day

Sampler:

For Lab Use Only

Walk-in Client

Lab Sampling

Job / SDG No

500-212399

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Analytes						Sample Specific Notes
								VOC	SVOC	metal	TCLP	pH	solids	
1 2615V2-01-B19 (0-3)	2/15/22	9:00	G	S	5			X	X	X	X	X	X	
2 2615V2-01-B20 (0-3)	2/15/22	9:22	G	S	5			X	X	X	X	X	X	
3 2615V2-01-B21 (0-1)	2/15/22	9:38	G	S	5			X	X	X	X	X	X	
4 2615V2-01-B22 (0-05)	2/15/22	10:30	G	S	5			X	X	X	X	X	X	
5 2615V2-01-B23 (0-2)	2/15/22	11:20	G	S	5			X	X	X	X	X	X	
6 2615V2-01-B24 (0-1)	2/15/22	11:25	G	S	5			X	X	X	X	X	X	
7 2615V2-01-B25 (0-2)	2/15/22	12:50	G	S	5			X	X	X	X	X	X	
8 2615V2-01-B26 (0-3)	2/15/22	13:30	G	S	5			X	X	X	X	X	X	
9 2615V2-01-B27 (0-3)	2/15/22	13:10	G	S	5			X	X	X	X	X	X	

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

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

Non Hazard Flammable Skin Irritant Poison B Unknown

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

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

5.3+4.3

Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Relinquished by Caithlyn Cooper Company WSP Date/Time 2/15/22 1615	Custody Seal No _____ Cooler Temp (°C) Obs'd _____ Received by Wright Company WSP Date/Time 2/15/22 1615	Received in Laboratory by Alan Scott Company WSP Date/Time 2/15/22 1732
--	---	--

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212399-1

Login Number: 212399

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-212467-1

Client Project/Site: IDOT - 196-002-WO008 Byrne Interchange

For:

WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
3/2/2022 3:36:46 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Job ID: 500-212467-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212467-1

Receipt

The samples were received on 2/16/2022 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

Receipt Exceptions

For laboratory sample 500-212467-9, the sample container label ID is 2615V2-141-B08 (0-2). The chain of custody has 2615V2-01-B08 (0-2). Logged in per chain of custody.

GC/MS VOA

Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: 2615V2-01-B02 (0-2)-DUP (500-212467-2). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: 2615V2-01-B02 (0-2)-DUP (500-212467-2). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard.

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644670 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene, Pentachlorophenol, Pyrene and Terphenyl-d14. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample contained one base surrogate outside acceptance limits: 2615V2-01-B01 (0-2) (500-212467-8). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644772 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 4-Nitrophenol, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Internal standard responses for Perylene-d12 was outside of acceptance limits for the following samples: 2615V2-01-B07 (0-3) (500-212467-6), 2615V2-01-B04 (0-2) (500-212467-7), 2615V2-01-B01 (0-2) (500-212467-8) and 2615V2-01-B08 (0-2) (500-212467-9). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: 2615V2-01-B07 (0-3) (500-212467-6) and 2615V2-01-B01 (0-2) (500-212467-8). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: 2615V2-01-B01 (0-2) (500-212467-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: 1,4-Dichlorobenzene-d4 Internal standard (ISTD) response for the following sample was outside of acceptance limits: 2615V2-01-B06 (0-3) (500-212467-5). This internal standard is not associated to the reported analytes; therefore, re-analysis was not performed.

Method 8270D: 1,4-Dichlorobenzene-d4 and Naphthalene-d8 Internal standard (ISTD) response for the following sample was outside of acceptance limits: 2615V2-01-B01 (0-2) (500-212467-8). These internal standards are not associated to the reported analytes; therefore,

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Job ID: 500-212467-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

re-analysis was not performed.

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

Metals

Method 6010B: The method blank for preparation batch 500-644813 and analytical batch 500-645232 contained Chromium 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: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)

Lab Sample ID: 500-212467-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.041		0.037	0.0057	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.023	J	0.074	0.0068	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.014	J	0.037	0.0048	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.019	J	0.037	0.0066	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.023	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.28		0.037	0.0051	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.061		0.037	0.0061	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.44		0.037	0.0068	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.42		0.037	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.21		0.037	0.0049	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.23		0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.37		0.037	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.14		0.037	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.23		0.037	0.0071	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.073		0.037	0.0095	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.024	J	0.037	0.0071	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.078		0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.33	J F1 F2	1.0	0.20	mg/Kg	1	✳	6010B	Total/NA
Arsenic	3.8	F1	0.52	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	28		0.52	0.059	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.35		0.21	0.048	mg/Kg	1	✳	6010B	Total/NA
Boron	6.1	F1	2.6	0.24	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.14	B	0.10	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	68000	B F2	52	8.8	mg/Kg	5	✳	6010B	Total/NA
Chromium	9.2	B	0.52	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	5.4		0.26	0.068	mg/Kg	1	✳	6010B	Total/NA
Copper	17	B	0.52	0.14	mg/Kg	1	✳	6010B	Total/NA
Iron	8600	B	10	5.4	mg/Kg	1	✳	6010B	Total/NA
Lead	34		0.26	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000	F2	5.2	2.6	mg/Kg	1	✳	6010B	Total/NA
Manganese	310		0.52	0.075	mg/Kg	1	✳	6010B	Total/NA
Nickel	13		0.52	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	930	F1	26	9.2	mg/Kg	1	✳	6010B	Total/NA
Silver	0.12	J	0.26	0.067	mg/Kg	1	✳	6010B	Total/NA
Sodium	270		52	7.7	mg/Kg	1	✳	6010B	Total/NA
Vanadium	11		0.26	0.061	mg/Kg	1	✳	6010B	Total/NA
Zinc	64	B	1.0	0.45	mg/Kg	1	✳	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.056	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.0076		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.87		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.081	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.17		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.14		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)-DUP

Lab Sample ID: 500-212467-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.011	J	0.037	0.0067	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.013	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.21		0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.049		0.037	0.0062	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.44		0.037	0.0069	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.41		0.037	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.21		0.037	0.0050	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.24		0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.37		0.037	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.037	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.24		0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.065		0.037	0.0096	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.022	J	0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.067		0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.28	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.3		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	32		0.56	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.37		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	6.0		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.16	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	59000	B	56	9.4	mg/Kg	5	✳	6010B	Total/NA
Chromium	10	B	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	7.5		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	19	B	0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	9200	B	11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	34		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	25000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	360		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	14		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1000		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Silver	0.15	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	260		56	8.2	mg/Kg	1	✳	6010B	Total/NA
Vanadium	12		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	67	B	1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.057	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.083	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.14		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B03 (0-2)

Lab Sample ID: 500-212467-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.013	J	0.038	0.0069	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.015	J	0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.24		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.045		0.038	0.0064	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-212467-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Client Sample ID: 2615V2-01-B03 (0-2) (Continued)

Lab Sample ID: 500-212467-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.35		0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.46		0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.20		0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.22		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.25		0.038	0.0083	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.20		0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.010	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	0.048		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.36	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.3		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	37		0.61	0.069	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.80		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Boron	10		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Calcium	23000	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	16	B	0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.30	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	26	B	0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	17000	B	12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	14000		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	220		0.61	0.088	mg/Kg	1	✳	6010B	Total/NA
Nickel	35		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	2500		30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.23	J	0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Sodium	260		61	9.0	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.77		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.30	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	48	B	1.2	0.53	mg/Kg	1	✳	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.073	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24	J B	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.073	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.077		0.020	0.0065	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B05 (0-3)

Lab Sample ID: 500-212467-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0077	J	0.036	0.0056	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.0071	J	0.073	0.0066	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.015	J	0.036	0.0048	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.014	J	0.036	0.0065	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.023	J	0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.22		0.036	0.0050	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.048		0.036	0.0060	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-212467-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Client Sample ID: 2615V2-01-B05 (0-3) (Continued)

Lab Sample ID: 500-212467-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.32		0.036	0.0067	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.35		0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.16		0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.18		0.036	0.0098	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.29		0.036	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.085		0.036	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.18		0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.061		0.036	0.0094	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.020	J	0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.047		0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Arsenic	4.0		0.52	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	18		0.52	0.059	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.29		0.21	0.049	mg/Kg	1	✳	6010B	Total/NA
Boron	4.5		2.6	0.24	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.13	B	0.10	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	66000	B	52	8.8	mg/Kg	5	✳	6010B	Total/NA
Chromium	7.3	B	0.52	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	5.3		0.26	0.068	mg/Kg	1	✳	6010B	Total/NA
Copper	10	B	0.52	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	8800	B	10	5.4	mg/Kg	1	✳	6010B	Total/NA
Lead	25		0.26	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000		5.2	2.6	mg/Kg	1	✳	6010B	Total/NA
Manganese	310		0.52	0.075	mg/Kg	1	✳	6010B	Total/NA
Nickel	11		0.52	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	650		26	9.2	mg/Kg	1	✳	6010B	Total/NA
Silver	0.086	J	0.26	0.067	mg/Kg	1	✳	6010B	Total/NA
Sodium	150		52	7.7	mg/Kg	1	✳	6010B	Total/NA
Vanadium	10		0.26	0.061	mg/Kg	1	✳	6010B	Total/NA
Zinc	47	B	1.0	0.46	mg/Kg	1	✳	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.056	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B07 (0-3) (Continued)

Lab Sample ID: 500-212467-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.97		0.35	0.050	mg/Kg	10	✳	8270D	Total/NA
Phenanthrene	8.9		0.35	0.050	mg/Kg	10	✳	8270D	Total/NA
Anthracene	2.2		0.35	0.060	mg/Kg	10	✳	8270D	Total/NA
Carbazole	1.1	J	1.8	0.89	mg/Kg	10	✳	8270D	Total/NA
Fluoranthene	11		0.35	0.066	mg/Kg	10	✳	8270D	Total/NA
Pyrene	13		0.35	0.071	mg/Kg	10	✳	8270D	Total/NA
Benzo[a]anthracene	5.1		0.35	0.048	mg/Kg	10	✳	8270D	Total/NA
Chrysene	4.9		0.35	0.097	mg/Kg	10	✳	8270D	Total/NA
Benzo[b]fluoranthene	6.9	*3	0.35	0.077	mg/Kg	10	✳	8270D	Total/NA
Benzo[k]fluoranthene	3.1	*3	0.35	0.11	mg/Kg	10	✳	8270D	Total/NA
Benzo[a]pyrene	4.8	*3	0.35	0.069	mg/Kg	10	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1.4	*3	0.35	0.092	mg/Kg	10	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.46	*3	0.35	0.069	mg/Kg	10	✳	8270D	Total/NA
Benzo[g,h,i]perylene	1.2	*3	0.35	0.11	mg/Kg	10	✳	8270D	Total/NA
Antimony	0.28	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.0		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	130		0.53	0.060	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.37		0.21	0.049	mg/Kg	1	✳	6010B	Total/NA
Boron	8.1		2.6	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.48	B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	97000	B	53	9.0	mg/Kg	5	✳	6010B	Total/NA
Chromium	6.6	B	0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	3.0		0.26	0.069	mg/Kg	1	✳	6010B	Total/NA
Copper	18	B	0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	8500	B	53	28	mg/Kg	5	✳	6010B	Total/NA
Lead	230		0.26	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	58000		26	13	mg/Kg	5	✳	6010B	Total/NA
Manganese	130		0.53	0.077	mg/Kg	1	✳	6010B	Total/NA
Nickel	9.2		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	520		26	9.4	mg/Kg	1	✳	6010B	Total/NA
Silver	0.11	J	0.26	0.068	mg/Kg	1	✳	6010B	Total/NA
Sodium	140		53	7.8	mg/Kg	1	✳	6010B	Total/NA
Vanadium	6.3		0.26	0.062	mg/Kg	1	✳	6010B	Total/NA
Zinc	160	B	1.1	0.46	mg/Kg	1	✳	6010B	Total/NA
Barium	0.85		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.055	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0068		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.93		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.66		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.33		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.41		0.016	0.0054	mg/Kg	1	✳	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B04 (0-2)

Lab Sample ID: 500-212467-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.028	J	0.036	0.0056	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-212467-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Client Sample ID: 2615V2-01-B04 (0-2) (Continued)

Lab Sample ID: 500-212467-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.033	J	0.074	0.0067	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.045		0.036	0.0048	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.067		0.036	0.0066	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.075		0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.89		0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.22		0.036	0.0061	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.5		0.036	0.0068	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.8		0.036	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.75		0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.79		0.036	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1.2	*3	0.036	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.49	*3	0.036	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.83	*3	0.036	0.0071	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.25	*3	0.036	0.0095	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.082	*3	0.036	0.0071	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.21	*3	0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.33	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	3.5		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	35		0.55	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.35		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	8.4		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.39	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	130000	B	55	9.3	mg/Kg	5	✳	6010B	Total/NA
Chromium	7.6	B	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	4.1		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	19	B	0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	8500	B	55	28	mg/Kg	5	✳	6010B	Total/NA
Lead	73		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	81000		27	14	mg/Kg	5	✳	6010B	Total/NA
Manganese	200		0.55	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	10		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	750		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Silver	0.087	J	0.27	0.070	mg/Kg	1	✳	6010B	Total/NA
Sodium	160		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Vanadium	8.3		0.27	0.064	mg/Kg	1	✳	6010B	Total/NA
Zinc	92	B	1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.052	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.0098		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.80		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.10		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212467-1	2615V2-01-B02 (0-2)	Solid	02/16/22 08:17	02/16/22 16:45
500-212467-2	2615V2-01-B02 (0-2)-DUP	Solid	02/16/22 08:17	02/16/22 16:45
500-212467-3	2615V2-01-B03 (0-2)	Solid	02/16/22 08:45	02/16/22 16:45
500-212467-4	2615V2-01-B05 (0-3)	Solid	02/16/22 09:05	02/16/22 16:45
500-212467-7	2615V2-01-B04 (0-2)	Solid	02/16/22 10:40	02/16/22 16:45

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)

Lab Sample ID: 500-212467-1

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00068	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		75 - 131	02/16/22 17:25	02/28/22 12:54	1
Dibromofluoromethane	107		75 - 126	02/16/22 17:25	02/28/22 12:54	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/16/22 17:25	02/28/22 12:54	1
Toluene-d8 (Surr)	96		75 - 124	02/16/22 17:25	02/28/22 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.082	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)

Lab Sample ID: 500-212467-1

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.038	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Naphthalene	0.041		0.037	0.0057	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2-Methylnaphthalene	0.023 J		0.074	0.0068	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Acenaphthylene	0.014 J		0.037	0.0048	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Acenaphthene	0.019 J		0.037	0.0066	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Fluorene	0.023 J		0.037	0.0052	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Phenanthrene	0.28		0.037	0.0051	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Anthracene	0.061		0.037	0.0061	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Fluoranthene	0.44		0.037	0.0068	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Pyrene	0.42		0.037	0.0073	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1
Benzo[a]anthracene	0.21		0.037	0.0049	mg/Kg	☼	02/25/22 06:54	02/27/22 17:15	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)

Lab Sample ID: 500-212467-1

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.23		0.037	0.010	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
Benzo[b]fluoranthene	0.37		0.037	0.0079	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
Benzo[k]fluoranthene	0.14		0.037	0.011	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
Benzo[a]pyrene	0.23		0.037	0.0071	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
Indeno[1,2,3-cd]pyrene	0.073		0.037	0.0095	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
Dibenz(a,h)anthracene	0.024	J	0.037	0.0071	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
Benzo[g,h,i]perylene	0.078		0.037	0.012	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	✱	02/25/22 06:54	02/27/22 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		31 - 166	02/25/22 06:54	02/27/22 17:15	1
Phenol-d5	99		30 - 153	02/25/22 06:54	02/27/22 17:15	1
Nitrobenzene-d5 (Surr)	84		37 - 147	02/25/22 06:54	02/27/22 17:15	1
2-Fluorobiphenyl (Surr)	92		43 - 145	02/25/22 06:54	02/27/22 17:15	1
2,4,6-Tribromophenol	90		31 - 143	02/25/22 06:54	02/27/22 17:15	1
Terphenyl-d14 (Surr)	105		42 - 157	02/25/22 06:54	02/27/22 17:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J F1 F2	1.0	0.20	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Arsenic	3.8	F1	0.52	0.18	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Barium	28		0.52	0.059	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Beryllium	0.35		0.21	0.048	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Boron	6.1	F1	2.6	0.24	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Cadmium	0.14	B	0.10	0.019	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Calcium	68000	B F2	52	8.8	mg/Kg	✱	02/28/22 13:00	03/02/22 11:31	5
Chromium	9.2	B	0.52	0.26	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Cobalt	5.4		0.26	0.068	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Copper	17	B	0.52	0.14	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Iron	8600	B	10	5.4	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Lead	34		0.26	0.12	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Magnesium	27000	F2	5.2	2.6	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Manganese	310		0.52	0.075	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Nickel	13		0.52	0.15	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Potassium	930	F1	26	9.2	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Selenium	<0.52	F1	0.52	0.30	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Silver	0.12	J	0.26	0.067	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Sodium	270		52	7.7	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Thallium	<0.52		0.52	0.26	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Vanadium	11		0.26	0.061	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1
Zinc	64	B	1.0	0.45	mg/Kg	✱	02/28/22 13:00	03/01/22 14:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 09:01	02/28/22 20:21	1
Boron	0.056	J	0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:21	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)

Lab Sample ID: 500-212467-1

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/28/22 09:01	02/28/22 20:21	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:21	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:21	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 09:01	02/28/22 20:21	1
Lead	0.0076		0.0075	0.0075	mg/L		02/28/22 09:01	02/28/22 20:21	1
Manganese	0.87		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:21	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 09:01	02/28/22 20:21	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:21	1
Zinc	0.081	J	0.50	0.020	mg/L		02/28/22 09:01	02/28/22 20:21	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.17		0.0075	0.0075	mg/L		02/28/22 09:04	03/01/22 15:05	1
Manganese	0.38		0.025	0.010	mg/L		02/28/22 09:04	03/01/22 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 09:01	02/28/22 18:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 09:01	02/28/22 18:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 14:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.018	0.0061	mg/Kg	☼	03/01/22 14:00	03/02/22 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			02/22/22 21:21	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)-DUP

Lab Sample ID: 500-212467-2

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Carbon disulfide	<0.0046		0.0046	0.00097	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
1,2-Dichloropropene	<0.0019		0.0019	0.00048	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
1,1,2,2-Tetrachloroethane	<0.0019	*3	0.0019	0.00059	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✳	02/16/22 17:25	02/28/22 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	*3 S1+	75 - 131	02/16/22 17:25	02/28/22 13:20	1
Dibromofluoromethane	104		75 - 126	02/16/22 17:25	02/28/22 13:20	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/16/22 17:25	02/28/22 13:20	1
Toluene-d8 (Surr)	102		75 - 124	02/16/22 17:25	02/28/22 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)-DUP

Lab Sample ID: 500-212467-2

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 87.3

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	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Acenaphthene	0.011	J	0.037	0.0067	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Fluorene	0.013	J	0.037	0.0052	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Phenanthrene	0.21		0.037	0.0052	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Anthracene	0.049		0.037	0.0062	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Fluoranthene	0.44		0.037	0.0069	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Pyrene	0.41		0.037	0.0074	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1
Benzo[a]anthracene	0.21		0.037	0.0050	mg/Kg	✱	02/25/22 06:54	02/27/22 17:39	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)-DUP

Lab Sample ID: 500-212467-2

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.24		0.037	0.010	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
Benzo[b]fluoranthene	0.37		0.037	0.0080	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
Benzo[k]fluoranthene	0.13		0.037	0.011	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
Benzo[a]pyrene	0.24		0.037	0.0072	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
Indeno[1,2,3-cd]pyrene	0.065		0.037	0.0096	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
Dibenz(a,h)anthracene	0.022	J	0.037	0.0072	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
Benzo[g,h,i]perylene	0.067		0.037	0.012	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	02/25/22 06:54	02/27/22 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		31 - 166	02/25/22 06:54	02/27/22 17:39	1
Phenol-d5	97		30 - 153	02/25/22 06:54	02/27/22 17:39	1
Nitrobenzene-d5 (Surr)	82		37 - 147	02/25/22 06:54	02/27/22 17:39	1
2-Fluorobiphenyl (Surr)	95		43 - 145	02/25/22 06:54	02/27/22 17:39	1
2,4,6-Tribromophenol	99		31 - 143	02/25/22 06:54	02/27/22 17:39	1
Terphenyl-d14 (Surr)	105		42 - 157	02/25/22 06:54	02/27/22 17:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.1	0.22	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Arsenic	4.3		0.56	0.19	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Barium	32		0.56	0.063	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Beryllium	0.37		0.22	0.052	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Boron	6.0		2.8	0.26	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Cadmium	0.16	B	0.11	0.020	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Calcium	59000	B	56	9.4	mg/Kg	✳	02/28/22 13:00	03/02/22 11:50	5
Chromium	10	B	0.56	0.28	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Cobalt	7.5		0.28	0.073	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Copper	19	B	0.56	0.16	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Iron	9200	B	11	5.8	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Lead	34		0.28	0.13	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Magnesium	25000		5.6	2.8	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Manganese	360		0.56	0.081	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Nickel	14		0.56	0.16	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Potassium	1000		28	9.9	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Silver	0.15	J	0.28	0.072	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Sodium	260		56	8.2	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Thallium	<0.56		0.56	0.28	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Vanadium	12		0.28	0.066	mg/Kg	✳	02/28/22 13:00	03/01/22 14:32	1
Zinc	67	B	1.1	0.49	mg/Kg	✳	02/28/22 13:00	03/02/22 11:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 09:01	02/28/22 20:24	1
Boron	0.057	J	0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:24	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)-DUP

Lab Sample ID: 500-212467-2

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0023	J	0.0050	0.0020	mg/L	-	02/28/22 09:01	02/28/22 20:24	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:24	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:24	1
Iron	<0.40		0.40	0.20	mg/L	-	02/28/22 09:01	02/28/22 20:24	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/28/22 09:01	02/28/22 20:24	1
Manganese	0.95		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:24	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:24	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/28/22 09:01	02/28/22 20:24	1
Silver	<0.025		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:24	1
Zinc	0.083	J	0.50	0.020	mg/L	-	02/28/22 09:01	02/28/22 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.55		0.025	0.010	mg/L	-	02/28/22 09:04	03/01/22 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/28/22 09:01	02/28/22 18:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/28/22 09:01	02/28/22 18:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/28/22 14:20	03/01/22 14:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.017	0.0057	mg/Kg	☆	03/01/22 14:00	03/02/22 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.2	0.2	SU	-		02/22/22 21:24	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B03 (0-2)

Lab Sample ID: 500-212467-3

Date Collected: 02/16/22 08:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0085	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Carbon tetrachloride	<0.0019		0.0019	0.00057	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Chloroform	<0.0019		0.0019	0.00068	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
1,2-Dichloropropene	<0.0019		0.0019	0.00050	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00084	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	✳	02/16/22 17:25	02/28/22 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		75 - 131	02/16/22 17:25	02/28/22 13:45	1
Dibromofluoromethane	104		75 - 126	02/16/22 17:25	02/28/22 13:45	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/16/22 17:25	02/28/22 13:45	1
Toluene-d8 (Surr)	99		75 - 124	02/16/22 17:25	02/28/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✳	02/25/22 06:54	02/27/22 18:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	✳	02/25/22 06:54	02/27/22 18:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	02/25/22 06:54	02/27/22 18:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	02/25/22 06:54	02/27/22 18:03	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B03 (0-2)

Lab Sample ID: 500-212467-3

Date Collected: 02/16/22 08:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.9

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	✱	02/25/22 06:54	02/27/22 18:03	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Acenaphthene	0.013	J	0.038	0.0069	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Fluorene	0.015	J	0.038	0.0054	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Phenanthrene	0.24		0.038	0.0054	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Anthracene	0.045		0.038	0.0064	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Fluoranthene	0.35		0.038	0.0071	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Pyrene	0.46		0.038	0.0076	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1
Benzo[a]anthracene	0.20		0.038	0.0052	mg/Kg	✱	02/25/22 06:54	02/27/22 18:03	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B03 (0-2)

Lab Sample ID: 500-212467-3

Date Collected: 02/16/22 08:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.22		0.038	0.010	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
Benzo[b]fluoranthene	0.25		0.038	0.0083	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
Benzo[k]fluoranthene	0.11		0.038	0.011	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
Benzo[a]pyrene	0.20		0.038	0.0074	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.010	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
Dibenz(a,h)anthracene	0.016 J		0.038	0.0074	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
Benzo[g,h,i]perylene	0.048		0.038	0.012	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/25/22 06:54	02/27/22 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		31 - 166				02/25/22 06:54	02/27/22 18:03	1
Phenol-d5	85		30 - 153				02/25/22 06:54	02/27/22 18:03	1
Nitrobenzene-d5 (Surr)	68		37 - 147				02/25/22 06:54	02/27/22 18:03	1
2-Fluorobiphenyl (Surr)	83		43 - 145				02/25/22 06:54	02/27/22 18:03	1
2,4,6-Tribromophenol	90		31 - 143				02/25/22 06:54	02/27/22 18:03	1
Terphenyl-d14 (Surr)	105		42 - 157				02/25/22 06:54	02/27/22 18:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36 J		1.2	0.24	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Arsenic	5.3		0.61	0.21	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Barium	37		0.61	0.069	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Beryllium	0.80		0.24	0.057	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Boron	10		3.0	0.28	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Calcium	23000 B		12	2.1	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Chromium	16 B		0.61	0.30	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Cobalt	13		0.30	0.080	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Copper	26 B		0.61	0.17	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Iron	17000 B		12	6.3	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Lead	16		0.30	0.14	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Magnesium	14000		6.1	3.0	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Manganese	220		0.61	0.088	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Nickel	35		0.61	0.18	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Potassium	2500		30	11	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Silver	0.23 J		0.30	0.078	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Sodium	260		61	9.0	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Thallium	0.77		0.61	0.30	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Vanadium	15		0.30	0.072	mg/Kg	☼	02/28/22 13:00	03/01/22 14:42	1
Zinc	48 B		1.2	0.53	mg/Kg	☼	02/28/22 13:00	03/02/22 12:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 09:01	02/28/22 20:47	1
Boron	0.073 J		0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:47	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B03 (0-2)

Lab Sample ID: 500-212467-3

Date Collected: 02/16/22 08:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 09:01	02/28/22 20:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:47	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:47	1
Iron	0.24	J B	0.40	0.20	mg/L		02/28/22 09:01	02/28/22 20:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 09:01	02/28/22 20:47	1
Manganese	1.2		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:47	1
Nickel	0.015	J	0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 09:01	02/28/22 20:47	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:47	1
Zinc	0.073	J	0.50	0.020	mg/L		02/28/22 09:01	02/28/22 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.99		0.025	0.010	mg/L		02/28/22 09:04	03/01/22 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 09:01	02/28/22 18:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 09:01	02/28/22 18:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 15:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.077		0.020	0.0065	mg/Kg	☆	03/01/22 14:00	03/02/22 07:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			02/22/22 21:26	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B05 (0-3)

Lab Sample ID: 500-212467-4

Date Collected: 02/16/22 09:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
1,2-Dichloropropene	<0.0018		0.0018	0.00046	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	✱	02/16/22 17:25	02/28/22 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		75 - 131	02/16/22 17:25	02/28/22 14:11	1
Dibromofluoromethane	101		75 - 126	02/16/22 17:25	02/28/22 14:11	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/16/22 17:25	02/28/22 14:11	1
Toluene-d8 (Surr)	94		75 - 124	02/16/22 17:25	02/28/22 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	✱	02/25/22 06:54	02/28/22 16:06	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	✱	02/25/22 06:54	02/28/22 16:06	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✱	02/25/22 06:54	02/28/22 16:06	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	✱	02/25/22 06:54	02/28/22 16:06	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B05 (0-3)

Lab Sample ID: 500-212467-4

Date Collected: 02/16/22 09:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Naphthalene	0.0077	J	0.036	0.0056	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2-Methylnaphthalene	0.0071	J	0.073	0.0066	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Acenaphthylene	0.015	J	0.036	0.0048	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Acenaphthene	0.014	J	0.036	0.0065	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Fluorene	0.023	J	0.036	0.0051	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Phenanthrene	0.22		0.036	0.0050	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Anthracene	0.048		0.036	0.0060	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Fluoranthene	0.32		0.036	0.0067	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Pyrene	0.35		0.036	0.0072	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1
Benzo[a]anthracene	0.16		0.036	0.0049	mg/Kg	☼	02/25/22 06:54	02/28/22 16:06	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B05 (0-3)

Lab Sample ID: 500-212467-4

Date Collected: 02/16/22 09:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.18		0.036	0.0098	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
Benzo[b]fluoranthene	0.29		0.036	0.0078	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
Benzo[k]fluoranthene	0.085		0.036	0.011	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
Benzo[a]pyrene	0.18		0.036	0.0070	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
Indeno[1,2,3-cd]pyrene	0.061		0.036	0.0094	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
Dibenz(a,h)anthracene	0.020	J	0.036	0.0070	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
Benzo[g,h,i]perylene	0.047		0.036	0.012	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	✳	02/25/22 06:54	02/28/22 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	122		31 - 166				02/25/22 06:54	02/28/22 16:06	1
Phenol-d5	101		30 - 153				02/25/22 06:54	02/28/22 16:06	1
Nitrobenzene-d5 (Surr)	79		37 - 147				02/25/22 06:54	02/28/22 16:06	1
2-Fluorobiphenyl (Surr)	84		43 - 145				02/25/22 06:54	02/28/22 16:06	1
2,4,6-Tribromophenol	79		31 - 143				02/25/22 06:54	02/28/22 16:06	1
Terphenyl-d14 (Surr)	116		42 - 157				02/25/22 06:54	02/28/22 16:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Arsenic	4.0		0.52	0.18	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Barium	18		0.52	0.059	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Beryllium	0.29		0.21	0.049	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Boron	4.5		2.6	0.24	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Cadmium	0.13	B	0.10	0.019	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Calcium	66000	B	52	8.8	mg/Kg	✳	02/28/22 13:00	03/02/22 12:13	5
Chromium	7.3	B	0.52	0.26	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Cobalt	5.3		0.26	0.068	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Copper	10	B	0.52	0.15	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Iron	8800	B	10	5.4	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Lead	25		0.26	0.12	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Magnesium	27000		5.2	2.6	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Manganese	310		0.52	0.075	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Nickel	11		0.52	0.15	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Potassium	650		26	9.2	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Selenium	<0.52		0.52	0.31	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Silver	0.086	J	0.26	0.067	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Sodium	150		52	7.7	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Thallium	<0.52		0.52	0.26	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Vanadium	10		0.26	0.061	mg/Kg	✳	02/28/22 13:00	03/01/22 14:45	1
Zinc	47	B	1.0	0.46	mg/Kg	✳	02/28/22 13:00	03/02/22 12:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 09:01	02/28/22 20:51	1
Boron	0.056	J	0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:51	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B05 (0-3)

Lab Sample ID: 500-212467-4

Date Collected: 02/16/22 09:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0026	J	0.0050	0.0020	mg/L	-	02/28/22 09:01	02/28/22 20:51	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:51	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:51	1
Iron	<0.40		0.40	0.20	mg/L	-	02/28/22 09:01	02/28/22 20:51	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/28/22 09:01	02/28/22 20:51	1
Manganese	1.1		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:51	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:51	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/28/22 09:01	02/28/22 20:51	1
Silver	<0.025		0.025	0.010	mg/L	-	02/28/22 09:01	02/28/22 20:51	1
Zinc	0.11	J	0.50	0.020	mg/L	-	02/28/22 09:01	02/28/22 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.19		0.025	0.010	mg/L	-	02/28/22 09:04	03/01/22 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/28/22 09:01	02/28/22 19:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/28/22 09:01	02/28/22 19:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/28/22 14:20	03/01/22 15:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.017	0.0057	mg/Kg	☆	03/01/22 14:00	03/02/22 07:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU	-		02/22/22 21:29	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B04 (0-2)

Lab Sample ID: 500-212467-7

Date Collected: 02/16/22 10:40

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Bromodichloromethane	<0.0020		0.0020	0.00042	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Chlorobenzene	<0.0020		0.0020	0.00076	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
1,2-Dichloropropene	<0.0020		0.0020	0.00053	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00072	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Tetrachloroethene	<0.0020		0.0020	0.00070	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Toluene	<0.0020		0.0020	0.00052	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00091	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00069	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00088	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Vinyl chloride	<0.0020		0.0020	0.00091	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	✱	02/16/22 17:25	02/28/22 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		75 - 131	02/16/22 17:25	02/28/22 15:28	1
Dibromofluoromethane	107		75 - 126	02/16/22 17:25	02/28/22 15:28	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/16/22 17:25	02/28/22 15:28	1
Toluene-d8 (Surr)	96		75 - 124	02/16/22 17:25	02/28/22 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B04 (0-2)

Lab Sample ID: 500-212467-7

Date Collected: 02/16/22 10:40

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Naphthalene	0.028	J	0.036	0.0056	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2-Methylnaphthalene	0.033	J	0.074	0.0067	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Acenaphthylene	0.045		0.036	0.0048	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Acenaphthene	0.067		0.036	0.0066	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Fluorene	0.075		0.036	0.0051	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Phenanthrene	0.89		0.036	0.0051	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Anthracene	0.22		0.036	0.0061	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Fluoranthene	1.5		0.036	0.0068	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Pyrene	1.8		0.036	0.0073	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1
Benzo[a]anthracene	0.75		0.036	0.0049	mg/Kg	☼	02/25/22 06:54	02/28/22 16:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B04 (0-2)

Lab Sample ID: 500-212467-7

Date Collected: 02/16/22 10:40

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.79		0.036	0.010	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
Benzo[b]fluoranthene	1.2	*3	0.036	0.0079	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
Benzo[k]fluoranthene	0.49	*3	0.036	0.011	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
Benzo[a]pyrene	0.83	*3	0.036	0.0071	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
Indeno[1,2,3-cd]pyrene	0.25	*3	0.036	0.0095	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
Dibenz(a,h)anthracene	0.082	*3	0.036	0.0071	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
Benzo[g,h,i]perylene	0.21	*3	0.036	0.012	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	✱	02/25/22 06:54	02/28/22 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		31 - 166	02/25/22 06:54	02/28/22 16:53	1
Phenol-d5	103		30 - 153	02/25/22 06:54	02/28/22 16:53	1
Nitrobenzene-d5 (Surr)	68		37 - 147	02/25/22 06:54	02/28/22 16:53	1
2-Fluorobiphenyl (Surr)	79		43 - 145	02/25/22 06:54	02/28/22 16:53	1
2,4,6-Tribromophenol	71		31 - 143	02/25/22 06:54	02/28/22 16:53	1
Terphenyl-d14 (Surr)	116		42 - 157	02/25/22 06:54	02/28/22 16:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.21	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Arsenic	3.5		0.55	0.19	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Barium	35		0.55	0.062	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Beryllium	0.35		0.22	0.051	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Boron	8.4		2.7	0.25	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Cadmium	0.39	B	0.11	0.020	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Calcium	130000	B	55	9.3	mg/Kg	✱	02/28/22 13:00	03/02/22 12:39	5
Chromium	7.6	B	0.55	0.27	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Cobalt	4.1		0.27	0.072	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Copper	19	B	0.55	0.15	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Iron	8500	B	55	28	mg/Kg	✱	02/28/22 13:00	03/02/22 12:39	5
Lead	73		0.27	0.13	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Magnesium	81000		27	14	mg/Kg	✱	02/28/22 13:00	03/02/22 12:39	5
Manganese	200		0.55	0.079	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Nickel	10		0.55	0.16	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Potassium	750		27	9.7	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Selenium	<0.55		0.55	0.32	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Silver	0.087	J	0.27	0.070	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Sodium	160		55	8.1	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Thallium	<0.55		0.55	0.27	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Vanadium	8.3		0.27	0.064	mg/Kg	✱	02/28/22 13:00	03/01/22 14:55	1
Zinc	92	B	1.1	0.48	mg/Kg	✱	02/28/22 13:00	03/02/22 12:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		02/28/22 09:01	02/28/22 21:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 09:01	02/28/22 21:01	1
Boron	0.052	J	0.50	0.050	mg/L		02/28/22 09:01	02/28/22 21:01	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B04 (0-2)

Lab Sample ID: 500-212467-7

Date Collected: 02/16/22 10:40

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0033	J	0.0050	0.0020	mg/L		02/28/22 09:01	02/28/22 21:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 21:01	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 21:01	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 09:01	02/28/22 21:01	1
Lead	0.0098		0.0075	0.0075	mg/L		02/28/22 09:01	02/28/22 21:01	1
Manganese	0.80		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 21:01	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 21:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 09:01	02/28/22 21:01	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 21:01	1
Zinc	0.15	J	0.50	0.020	mg/L		02/28/22 09:01	02/28/22 21:01	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.18		0.0075	0.0075	mg/L		02/28/22 09:04	03/01/22 15:40	1
Manganese	0.20		0.025	0.010	mg/L		02/28/22 09:04	03/01/22 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 09:01	02/28/22 19:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 09:01	02/28/22 19:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 15:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.017	0.0058	mg/Kg	☼	03/01/22 14:00	03/02/22 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			02/22/22 21:36	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

GC/MS VOA

Prep Batch: 644720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	5035	
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	5035	
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	5035	
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	5035	
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	5035	
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	5035	
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	5035	
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	5035	
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 644778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	8260B	644720
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	8260B	644720
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	8260B	644720
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	8260B	644720
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	8260B	644720
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	8260B	644720
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	8260B	644720
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	8260B	644720
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	8260B	644720
MB 500-644778/27	Method Blank	Total/NA	Solid	8260B	
LCS 500-644778/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644778/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	3541	
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	3541	
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	3541	
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	3541	
500-212467-5 - DL	2615V2-01-B06 (0-3)	Total/NA	Solid	3541	
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	3541	
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	3541	
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	3541	
500-212467-8 - DL	2615V2-01-B01 (0-2)	Total/NA	Solid	3541	
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	3541	
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	3541	
MB 500-644415/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644415/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 644670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	8270D	644415
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	8270D	644415
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	8270D	644415
MB 500-644415/1-A	Method Blank	Total/NA	Solid	8270D	644415
LCS 500-644415/2-A	Lab Control Sample	Total/NA	Solid	8270D	644415

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

GC/MS Semi VOA

Analysis Batch: 644772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	8270D	644415
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	8270D	644415
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	8270D	644415
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	8270D	644415
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	8270D	644415
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	8270D	644415

Analysis Batch: 644984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-5 - DL	2615V2-01-B06 (0-3)	Total/NA	Solid	8270D	644415
500-212467-8 - DL	2615V2-01-B01 (0-2)	Total/NA	Solid	8270D	644415

Metals

Leach Batch: 644385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	TCLP	Solid	1311	
500-212467-2	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	1311	
500-212467-3	2615V2-01-B03 (0-2)	TCLP	Solid	1311	
500-212467-4	2615V2-01-B05 (0-3)	TCLP	Solid	1311	
500-212467-5	2615V2-01-B06 (0-3)	TCLP	Solid	1311	
500-212467-6	2615V2-01-B07 (0-3)	TCLP	Solid	1311	
500-212467-7	2615V2-01-B04 (0-2)	TCLP	Solid	1311	
500-212467-8	2615V2-01-B01 (0-2)	TCLP	Solid	1311	
500-212467-9	2615V2-01-B08 (0-2)	TCLP	Solid	1311	
LB 500-644385/1-B	Method Blank	TCLP	Solid	1311	
LB 500-644385/1-C	Method Blank	TCLP	Solid	1311	
500-212467-2 MS	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	1311	
500-212467-2 DU	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	1311	

Leach Batch: 644388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	SPLP East	Solid	1312	
500-212467-2	2615V2-01-B02 (0-2)-DUP	SPLP East	Solid	1312	
500-212467-3	2615V2-01-B03 (0-2)	SPLP East	Solid	1312	
500-212467-4	2615V2-01-B05 (0-3)	SPLP East	Solid	1312	
500-212467-5	2615V2-01-B06 (0-3)	SPLP East	Solid	1312	
500-212467-6	2615V2-01-B07 (0-3)	SPLP East	Solid	1312	
500-212467-7	2615V2-01-B04 (0-2)	SPLP East	Solid	1312	
500-212467-8	2615V2-01-B01 (0-2)	SPLP East	Solid	1312	
500-212467-9	2615V2-01-B08 (0-2)	SPLP East	Solid	1312	
LB 500-644388/1-B	Method Blank	SPLP East	Solid	1312	
500-212467-4 MS	2615V2-01-B05 (0-3)	SPLP East	Solid	1312	
500-212467-4 DU	2615V2-01-B05 (0-3)	SPLP East	Solid	1312	

Prep Batch: 644785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	TCLP	Solid	3010A	644385
500-212467-2	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	3010A	644385
500-212467-3	2615V2-01-B03 (0-2)	TCLP	Solid	3010A	644385
500-212467-4	2615V2-01-B05 (0-3)	TCLP	Solid	3010A	644385

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Metals (Continued)

Prep Batch: 644785 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-5	2615V2-01-B06 (0-3)	TCLP	Solid	3010A	644385
500-212467-6	2615V2-01-B07 (0-3)	TCLP	Solid	3010A	644385
500-212467-7	2615V2-01-B04 (0-2)	TCLP	Solid	3010A	644385
500-212467-8	2615V2-01-B01 (0-2)	TCLP	Solid	3010A	644385
500-212467-9	2615V2-01-B08 (0-2)	TCLP	Solid	3010A	644385
LB 500-644385/1-B	Method Blank	TCLP	Solid	3010A	644385
LCS 500-644785/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212467-2 MS	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	3010A	644385
500-212467-2 DU	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	3010A	644385

Prep Batch: 644793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	SPLP East	Solid	3010A	644388
500-212467-2	2615V2-01-B02 (0-2)-DUP	SPLP East	Solid	3010A	644388
500-212467-3	2615V2-01-B03 (0-2)	SPLP East	Solid	3010A	644388
500-212467-4	2615V2-01-B05 (0-3)	SPLP East	Solid	3010A	644388
500-212467-5	2615V2-01-B06 (0-3)	SPLP East	Solid	3010A	644388
500-212467-6	2615V2-01-B07 (0-3)	SPLP East	Solid	3010A	644388
500-212467-7	2615V2-01-B04 (0-2)	SPLP East	Solid	3010A	644388
500-212467-8	2615V2-01-B01 (0-2)	SPLP East	Solid	3010A	644388
500-212467-9	2615V2-01-B08 (0-2)	SPLP East	Solid	3010A	644388
LB 500-644388/1-B	Method Blank	SPLP East	Solid	3010A	644388
LCS 500-644793/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212467-4 MS	2615V2-01-B05 (0-3)	SPLP East	Solid	3010A	644388
500-212467-4 DU	2615V2-01-B05 (0-3)	SPLP East	Solid	3010A	644388

Prep Batch: 644805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	TCLP	Solid	7470A	644385
500-212467-2	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	7470A	644385
500-212467-3	2615V2-01-B03 (0-2)	TCLP	Solid	7470A	644385
500-212467-4	2615V2-01-B05 (0-3)	TCLP	Solid	7470A	644385
500-212467-5	2615V2-01-B06 (0-3)	TCLP	Solid	7470A	644385
500-212467-6	2615V2-01-B07 (0-3)	TCLP	Solid	7470A	644385
500-212467-7	2615V2-01-B04 (0-2)	TCLP	Solid	7470A	644385
500-212467-8	2615V2-01-B01 (0-2)	TCLP	Solid	7470A	644385
500-212467-9	2615V2-01-B08 (0-2)	TCLP	Solid	7470A	644385
LB 500-644385/1-C	Method Blank	TCLP	Solid	7470A	644385
MB 500-644805/13-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-644805/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-212467-2 MS	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	7470A	644385
500-212467-2 DU	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	7470A	644385

Prep Batch: 644813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	3050B	
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	3050B	
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	3050B	
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	3050B	
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	3050B	
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	3050B	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Metals (Continued)

Prep Batch: 644813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	3050B	
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	3050B	
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	3050B	
MB 500-644813/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644813/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-212467-1 MS	2615V2-01-B02 (0-2)	Total/NA	Solid	3050B	
500-212467-1 MSD	2615V2-01-B02 (0-2)	Total/NA	Solid	3050B	
500-212467-1 DU	2615V2-01-B02 (0-2)	Total/NA	Solid	3050B	

Analysis Batch: 645033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	TCLP	Solid	6010B	644785
500-212467-2	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	6010B	644785
500-212467-3	2615V2-01-B03 (0-2)	TCLP	Solid	6010B	644785
500-212467-4	2615V2-01-B05 (0-3)	TCLP	Solid	6010B	644785
500-212467-5	2615V2-01-B06 (0-3)	TCLP	Solid	6010B	644785
500-212467-6	2615V2-01-B07 (0-3)	TCLP	Solid	6010B	644785
500-212467-7	2615V2-01-B04 (0-2)	TCLP	Solid	6010B	644785
500-212467-8	2615V2-01-B01 (0-2)	TCLP	Solid	6010B	644785
500-212467-9	2615V2-01-B08 (0-2)	TCLP	Solid	6010B	644785
LB 500-644385/1-B	Method Blank	TCLP	Solid	6010B	644785
LCS 500-644785/2-A	Lab Control Sample	Total/NA	Solid	6010B	644785
500-212467-2 MS	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	6010B	644785
500-212467-2 DU	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	6010B	644785

Analysis Batch: 645037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	TCLP	Solid	6020A	644785
500-212467-2	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	6020A	644785
500-212467-3	2615V2-01-B03 (0-2)	TCLP	Solid	6020A	644785
500-212467-4	2615V2-01-B05 (0-3)	TCLP	Solid	6020A	644785
500-212467-5	2615V2-01-B06 (0-3)	TCLP	Solid	6020A	644785
500-212467-6	2615V2-01-B07 (0-3)	TCLP	Solid	6020A	644785
500-212467-7	2615V2-01-B04 (0-2)	TCLP	Solid	6020A	644785
500-212467-8	2615V2-01-B01 (0-2)	TCLP	Solid	6020A	644785
500-212467-9	2615V2-01-B08 (0-2)	TCLP	Solid	6020A	644785
LB 500-644385/1-B	Method Blank	TCLP	Solid	6020A	644785
LCS 500-644785/2-A	Lab Control Sample	Total/NA	Solid	6020A	644785
500-212467-2 MS	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	6020A	644785
500-212467-2 DU	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	6020A	644785

Prep Batch: 645075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	7471B	
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	7471B	
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	7471B	
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	7471B	
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	7471B	
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	7471B	
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	7471B	
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	7471B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Metals (Continued)

Prep Batch: 645075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	7471B	
MB 500-645075/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-645075/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-212467-9 MS	2615V2-01-B08 (0-2)	Total/NA	Solid	7471B	
500-212467-9 MSD	2615V2-01-B08 (0-2)	Total/NA	Solid	7471B	
500-212467-9 DU	2615V2-01-B08 (0-2)	Total/NA	Solid	7471B	

Analysis Batch: 645104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-8	2615V2-01-B01 (0-2)	TCLP	Solid	6010B	644785

Analysis Batch: 645111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	TCLP	Solid	7470A	644805
500-212467-2	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	7470A	644805
500-212467-3	2615V2-01-B03 (0-2)	TCLP	Solid	7470A	644805
500-212467-4	2615V2-01-B05 (0-3)	TCLP	Solid	7470A	644805
500-212467-5	2615V2-01-B06 (0-3)	TCLP	Solid	7470A	644805
500-212467-6	2615V2-01-B07 (0-3)	TCLP	Solid	7470A	644805
500-212467-7	2615V2-01-B04 (0-2)	TCLP	Solid	7470A	644805
500-212467-8	2615V2-01-B01 (0-2)	TCLP	Solid	7470A	644805
500-212467-9	2615V2-01-B08 (0-2)	TCLP	Solid	7470A	644805
LB 500-644385/1-C	Method Blank	TCLP	Solid	7470A	644805
MB 500-644805/13-A	Method Blank	Total/NA	Solid	7470A	644805
LCS 500-644805/14-A	Lab Control Sample	Total/NA	Solid	7470A	644805
500-212467-2 MS	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	7470A	644805
500-212467-2 DU	2615V2-01-B02 (0-2)-DUP	TCLP	Solid	7470A	644805

Analysis Batch: 645232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	SPLP East	Solid	6010B	644793
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	6010B	644813
500-212467-2	2615V2-01-B02 (0-2)-DUP	SPLP East	Solid	6010B	644793
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	6010B	644813
500-212467-3	2615V2-01-B03 (0-2)	SPLP East	Solid	6010B	644793
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	6010B	644813
500-212467-4	2615V2-01-B05 (0-3)	SPLP East	Solid	6010B	644793
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	6010B	644813
500-212467-5	2615V2-01-B06 (0-3)	SPLP East	Solid	6010B	644793
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	6010B	644813
500-212467-6	2615V2-01-B07 (0-3)	SPLP East	Solid	6010B	644793
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	6010B	644813
500-212467-7	2615V2-01-B04 (0-2)	SPLP East	Solid	6010B	644793
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	6010B	644813
500-212467-8	2615V2-01-B01 (0-2)	SPLP East	Solid	6010B	644793
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	6010B	644813
500-212467-9	2615V2-01-B08 (0-2)	SPLP East	Solid	6010B	644793
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	6010B	644813
LB 500-644388/1-B	Method Blank	SPLP East	Solid	6010B	644793
MB 500-644813/1-A	Method Blank	Total/NA	Solid	6010B	644813
LCS 500-644793/2-A	Lab Control Sample	Total/NA	Solid	6010B	644793

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Metals (Continued)

Analysis Batch: 645232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644813/2-A	Lab Control Sample	Total/NA	Solid	6010B	644813
500-212467-1 MS	2615V2-01-B02 (0-2)	Total/NA	Solid	6010B	644813
500-212467-1 MSD	2615V2-01-B02 (0-2)	Total/NA	Solid	6010B	644813
500-212467-4 MS	2615V2-01-B05 (0-3)	SPLP East	Solid	6010B	644793
500-212467-1 DU	2615V2-01-B02 (0-2)	Total/NA	Solid	6010B	644813
500-212467-4 DU	2615V2-01-B05 (0-3)	SPLP East	Solid	6010B	644793

Analysis Batch: 645272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	7471B	645075
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	7471B	645075
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	7471B	645075
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	7471B	645075
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	7471B	645075
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	7471B	645075
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	7471B	645075
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	7471B	645075
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	7471B	645075
MB 500-645075/12-A	Method Blank	Total/NA	Solid	7471B	645075
LCS 500-645075/13-A	Lab Control Sample	Total/NA	Solid	7471B	645075
500-212467-9 MS	2615V2-01-B08 (0-2)	Total/NA	Solid	7471B	645075
500-212467-9 MSD	2615V2-01-B08 (0-2)	Total/NA	Solid	7471B	645075
500-212467-9 DU	2615V2-01-B08 (0-2)	Total/NA	Solid	7471B	645075

Analysis Batch: 645324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	6010B	644813
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	6010B	644813
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	6010B	644813
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	6010B	644813
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	6010B	644813
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	6010B	644813
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	6010B	644813
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	6010B	644813
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	6010B	644813
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	6010B	644813
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	6010B	644813
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	6010B	644813
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	6010B	644813
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	6010B	644813
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	6010B	644813
MB 500-644813/1-A	Method Blank	Total/NA	Solid	6010B	644813
500-212467-1 MS	2615V2-01-B02 (0-2)	Total/NA	Solid	6010B	644813
500-212467-1 MSD	2615V2-01-B02 (0-2)	Total/NA	Solid	6010B	644813
500-212467-1 DU	2615V2-01-B02 (0-2)	Total/NA	Solid	6010B	644813

General Chemistry

Analysis Batch: 643841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	Moisture	
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	Moisture	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

General Chemistry (Continued)

Analysis Batch: 643841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	Moisture	
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	Moisture	
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	Moisture	
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	Moisture	
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	Moisture	
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	Moisture	
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	Moisture	
500-212467-1 DU	2615V2-01-B02 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 643892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212467-1	2615V2-01-B02 (0-2)	Total/NA	Solid	9045D	
500-212467-2	2615V2-01-B02 (0-2)-DUP	Total/NA	Solid	9045D	
500-212467-3	2615V2-01-B03 (0-2)	Total/NA	Solid	9045D	
500-212467-4	2615V2-01-B05 (0-3)	Total/NA	Solid	9045D	
500-212467-5	2615V2-01-B06 (0-3)	Total/NA	Solid	9045D	
500-212467-6	2615V2-01-B07 (0-3)	Total/NA	Solid	9045D	
500-212467-7	2615V2-01-B04 (0-2)	Total/NA	Solid	9045D	
500-212467-8	2615V2-01-B01 (0-2)	Total/NA	Solid	9045D	
500-212467-9	2615V2-01-B08 (0-2)	Total/NA	Solid	9045D	
LCS 500-643892/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-643892/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-212467-8 DU	2615V2-01-B01 (0-2)	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-212467-1	2615V2-01-B02 (0-2)	122	107	101	96
500-212467-2	2615V2-01-B02 (0-2)-DUP	143 *3 S1+	104	102	102
500-212467-3	2615V2-01-B03 (0-2)	127	104	107	99
500-212467-4	2615V2-01-B05 (0-3)	117	101	100	94
500-212467-5	2615V2-01-B06 (0-3)	123	110	107	97
500-212467-6	2615V2-01-B07 (0-3)	118	105	103	95
500-212467-7	2615V2-01-B04 (0-2)	123	107	106	96
500-212467-8	2615V2-01-B01 (0-2)	113	102	100	96
500-212467-9	2615V2-01-B08 (0-2)	118	102	102	96
LCS 500-644778/5	Lab Control Sample	102	99	93	92
LCS 500-644778/6	Lab Control Sample Dup	100	104	101	93
MB 500-644778/27	Method Blank	108	109	105	92

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-212467-1	2615V2-01-B02 (0-2)	99	99	84	92	90	105
500-212467-2	2615V2-01-B02 (0-2)-DUP	99	97	82	95	99	105
500-212467-3	2615V2-01-B03 (0-2)	87	85	68	83	90	105
500-212467-4	2615V2-01-B05 (0-3)	122	101	79	84	79	116
500-212467-5	2615V2-01-B06 (0-3)	114	101	68	71	61	107
500-212467-5 - DL	2615V2-01-B06 (0-3)	118 *3	66 *3	41	68	77	90
500-212467-6	2615V2-01-B07 (0-3)	79	86	44	76	39	115
500-212467-7	2615V2-01-B04 (0-2)	105	103	68	79	71	116
500-212467-8	2615V2-01-B01 (0-2)	70	82	36 S1-	81	48	121
500-212467-8 - DL	2615V2-01-B01 (0-2)	0 *3 D	0 *3 D	0 *3 D	0 D	0 D	0 D
500-212467-9	2615V2-01-B08 (0-2)	93	89	64	72	60	103
LCS 500-644415/2-A	Lab Control Sample	112	116	97	98	94	100
MB 500-644415/1-A	Method Blank	96	72	79	100	69	103

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: MB 500-644778/27
Matrix: Solid
Analysis Batch: 644778

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/28/22 11:37	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/28/22 11:37	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/28/22 11:37	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/28/22 11:37	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/28/22 11:37	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/28/22 11:37	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/28/22 11:37	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/28/22 11:37	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/28/22 11:37	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/28/22 11:37	1
Chloroform	0.00102	J	0.0020	0.00069	mg/Kg			02/28/22 11:37	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/28/22 11:37	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/28/22 11:37	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/28/22 11:37	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/28/22 11:37	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/28/22 11:37	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/28/22 11:37	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/28/22 11:37	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/28/22 11:37	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/28/22 11:37	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/28/22 11:37	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/28/22 11:37	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/28/22 11:37	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/28/22 11:37	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/28/22 11:37	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/28/22 11:37	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/28/22 11:37	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/28/22 11:37	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/28/22 11:37	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/28/22 11:37	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/28/22 11:37	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/28/22 11:37	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/28/22 11:37	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/28/22 11:37	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/28/22 11:37	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/28/22 11:37	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/28/22 11:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		75 - 131		02/28/22 11:37	1
Dibromofluoromethane	109		75 - 126		02/28/22 11:37	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		02/28/22 11:37	1
Toluene-d8 (Surr)	92		75 - 124		02/28/22 11:37	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: LCS 500-644778/5
Matrix: Solid
Analysis Batch: 644778

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0470		mg/Kg		94	40 - 150
Benzene	0.0500	0.0498		mg/Kg		100	70 - 125
Bromodichloromethane	0.0500	0.0544		mg/Kg		109	67 - 129
Bromoform	0.0500	0.0516		mg/Kg		103	68 - 136
Bromomethane	0.0500	0.0421		mg/Kg		84	70 - 130
2-Butanone (MEK)	0.0500	0.0484		mg/Kg		97	47 - 138
Carbon disulfide	0.0500	0.0487		mg/Kg		97	70 - 129
Carbon tetrachloride	0.0500	0.0558		mg/Kg		112	75 - 125
Chlorobenzene	0.0500	0.0502		mg/Kg		100	50 - 150
Chloroethane	0.0500	0.0463		mg/Kg		93	75 - 125
Chloroform	0.0500	0.0528		mg/Kg		106	57 - 135
Chloromethane	0.0500	0.0446		mg/Kg		89	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0511		mg/Kg		102	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0463		mg/Kg		93	70 - 125
Dibromochloromethane	0.0500	0.0492		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0505		mg/Kg		101	70 - 125
1,2-Dichloroethane	0.0500	0.0524		mg/Kg		105	70 - 130
1,1-Dichloroethene	0.0500	0.0513		mg/Kg		103	70 - 120
1,2-Dichloropropane	0.0500	0.0518		mg/Kg		104	70 - 125
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136
2-Hexanone	0.0500	0.0392		mg/Kg		78	48 - 146
Methylene Chloride	0.0500	0.0504		mg/Kg		101	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0379		mg/Kg		76	50 - 148
Methyl tert-butyl ether	0.0500	0.0482		mg/Kg		96	50 - 140
Styrene	0.0500	0.0491		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0503		mg/Kg		101	70 - 122
Tetrachloroethene	0.0500	0.0540		mg/Kg		108	70 - 124
Toluene	0.0500	0.0480		mg/Kg		96	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0467		mg/Kg		93	70 - 125
1,1,1-Trichloroethane	0.0500	0.0559		mg/Kg		112	70 - 128
1,1,2-Trichloroethane	0.0500	0.0483		mg/Kg		97	70 - 125
Trichloroethene	0.0500	0.0531		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0454		mg/Kg		91	40 - 153
Vinyl chloride	0.0500	0.0480		mg/Kg		96	70 - 125
Xylenes, Total	0.100	0.0975		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: LCSD 500-644778/6
Matrix: Solid
Analysis Batch: 644778

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0488		mg/Kg		98	40 - 150	4	30
Benzene	0.0500	0.0489		mg/Kg		98	70 - 125	2	30
Bromodichloromethane	0.0500	0.0501		mg/Kg		100	67 - 129	8	30
Bromoform	0.0500	0.0552		mg/Kg		110	68 - 136	7	30
Bromomethane	0.0500	0.0441		mg/Kg		88	70 - 130	5	30
2-Butanone (MEK)	0.0500	0.0510		mg/Kg		102	47 - 138	5	30
Carbon disulfide	0.0500	0.0466		mg/Kg		93	70 - 129	4	30
Carbon tetrachloride	0.0500	0.0546		mg/Kg		109	75 - 125	2	30
Chlorobenzene	0.0500	0.0492		mg/Kg		98	50 - 150	2	30
Chloroethane	0.0500	0.0465		mg/Kg		93	75 - 125	0	30
Chloroform	0.0500	0.0545		mg/Kg		109	57 - 135	3	30
Chloromethane	0.0500	0.0450		mg/Kg		90	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0507		mg/Kg		101	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0449		mg/Kg		90	70 - 125	3	30
Dibromochloromethane	0.0500	0.0494		mg/Kg		99	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0506		mg/Kg		101	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0528		mg/Kg		106	70 - 130	1	30
1,1-Dichloroethene	0.0500	0.0497		mg/Kg		99	70 - 120	3	30
1,2-Dichloropropane	0.0500	0.0468		mg/Kg		94	70 - 125	10	30
Ethylbenzene	0.0500	0.0499		mg/Kg		100	61 - 136	1	30
2-Hexanone	0.0500	0.0408		mg/Kg		82	48 - 146	4	30
Methylene Chloride	0.0500	0.0488		mg/Kg		98	70 - 126	3	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0402		mg/Kg		80	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0488		mg/Kg		98	50 - 140	1	30
Styrene	0.0500	0.0493		mg/Kg		99	70 - 125	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.0484		mg/Kg		97	70 - 122	4	30
Tetrachloroethene	0.0500	0.0541		mg/Kg		108	70 - 124	0	30
Toluene	0.0500	0.0465		mg/Kg		93	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0516		mg/Kg		103	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0451		mg/Kg		90	70 - 125	3	30
1,1,1-Trichloroethane	0.0500	0.0554		mg/Kg		111	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 125	3	30
Trichloroethene	0.0500	0.0533		mg/Kg		107	70 - 125	0	30
Vinyl acetate	0.0500	0.0464		mg/Kg		93	40 - 153	2	30
Vinyl chloride	0.0500	0.0491		mg/Kg		98	70 - 125	2	30
Xylenes, Total	0.100	0.0976		mg/Kg		98	53 - 147	0	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		75 - 131
Dibromofluoromethane	104		75 - 126
1,2-Dichloroethane-d4 (Surr)	101		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: MB 500-644415/1-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644415

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/25/22 06:54	02/27/22 14:01	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: MB 500-644415/1-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/25/22 06:54	02/27/22 14:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		31 - 166	02/25/22 06:54	02/27/22 14:01	1
Phenol-d5	72		30 - 153	02/25/22 06:54	02/27/22 14:01	1
Nitrobenzene-d5 (Surr)	79		37 - 147	02/25/22 06:54	02/27/22 14:01	1
2-Fluorobiphenyl (Surr)	100		43 - 145	02/25/22 06:54	02/27/22 14:01	1
2,4,6-Tribromophenol	69		31 - 143	02/25/22 06:54	02/27/22 14:01	1
Terphenyl-d14 (Surr)	103		42 - 157	02/25/22 06:54	02/27/22 14:01	1

Lab Sample ID: LCS 500-644415/2-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.46		mg/Kg		109	56 - 122
Bis(2-chloroethyl)ether	1.33	1.13		mg/Kg		85	55 - 111
1,3-Dichlorobenzene	1.33	1.17		mg/Kg		87	65 - 124
1,4-Dichlorobenzene	1.33	1.19		mg/Kg		89	61 - 110
1,2-Dichlorobenzene	1.33	1.23		mg/Kg		92	62 - 110
2-Methylphenol	1.33	1.46		mg/Kg		110	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.29		mg/Kg		97	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.24		mg/Kg		93	56 - 118
Hexachloroethane	1.33	1.19		mg/Kg		89	60 - 114
2-Chlorophenol	1.33	1.31		mg/Kg		99	64 - 110
Nitrobenzene	1.33	1.21		mg/Kg		91	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.20		mg/Kg		90	60 - 112
1,2,4-Trichlorobenzene	1.33	1.26		mg/Kg		95	66 - 117
Isophorone	1.33	1.27		mg/Kg		95	55 - 110
2,4-Dimethylphenol	1.33	1.40		mg/Kg		105	60 - 110
Hexachlorobutadiene	1.33	1.38		mg/Kg		104	56 - 120
Naphthalene	1.33	1.24		mg/Kg		93	63 - 110
2,4-Dichlorophenol	1.33	1.45		mg/Kg		109	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: LCS 500-644415/2-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	0.693		mg/Kg		52	30 - 150
2,4,6-Trichlorophenol	1.33	1.40		mg/Kg		105	57 - 120
2,4,5-Trichlorophenol	1.33	1.31		mg/Kg		98	50 - 120
Hexachlorocyclopentadiene	1.33	0.300	J	mg/Kg		23	10 - 133
2-Methylnaphthalene	1.33	1.34		mg/Kg		101	69 - 112
2-Nitroaniline	1.33	1.37		mg/Kg		103	57 - 124
2-Chloronaphthalene	1.33	1.38		mg/Kg		104	69 - 114
4-Chloro-3-methylphenol	1.33	1.37		mg/Kg		103	65 - 122
2,6-Dinitrotoluene	1.33	1.40		mg/Kg		105	70 - 123
2-Nitrophenol	1.33	1.39		mg/Kg		104	60 - 120
3-Nitroaniline	1.33	0.852		mg/Kg		64	40 - 122
Dimethyl phthalate	1.33	1.33		mg/Kg		99	69 - 116
2,4-Dinitrophenol	2.67	1.22		mg/Kg		46	10 - 100
Acenaphthylene	1.33	1.24		mg/Kg		93	68 - 120
2,4-Dinitrotoluene	1.33	1.31		mg/Kg		98	69 - 124
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Dibenzofuran	1.33	1.25		mg/Kg		94	66 - 115
4-Nitrophenol	2.67	2.03		mg/Kg		76	30 - 122
Fluorene	1.33	1.18		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	0.924		mg/Kg		69	60 - 160
4-Bromophenyl phenyl ether	1.33	1.34		mg/Kg		101	68 - 118
Hexachlorobenzene	1.33	1.36		mg/Kg		102	63 - 124
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.30		mg/Kg		97	62 - 119
Pentachlorophenol	2.67	1.67		mg/Kg		63	13 - 112
N-Nitrosodiphenylamine	1.33	1.25		mg/Kg		94	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.79		mg/Kg		67	10 - 110
Phenanthrene	1.33	1.20		mg/Kg		90	62 - 120
Anthracene	1.33	1.22		mg/Kg		91	70 - 114
Carbazole	1.33	1.31		mg/Kg		98	65 - 142
Di-n-butyl phthalate	1.33	1.19		mg/Kg		90	65 - 120
Fluoranthene	1.33	1.25		mg/Kg		94	62 - 120
Pyrene	1.33	1.26		mg/Kg		94	61 - 128
Butyl benzyl phthalate	1.33	1.14		mg/Kg		86	71 - 129
Benzo[a]anthracene	1.33	1.16		mg/Kg		87	67 - 122
Chrysene	1.33	1.23		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	0.804		mg/Kg		60	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.22		mg/Kg		91	72 - 131
Di-n-octyl phthalate	1.33	1.22		mg/Kg		92	68 - 134
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	69 - 129
Benzo[k]fluoranthene	1.33	1.36		mg/Kg		102	68 - 127
Benzo[a]pyrene	1.33	1.46		mg/Kg		110	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.22		mg/Kg		91	68 - 130
Dibenz(a,h)anthracene	1.33	1.20		mg/Kg		90	64 - 131
Benzo[g,h,i]perylene	1.33	1.16		mg/Kg		87	72 - 131
3 & 4 Methylphenol	1.33	1.38		mg/Kg		104	57 - 120

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: LCS 500-644415/2-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644415

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	112		31 - 166
Phenol-d5	116		30 - 153
Nitrobenzene-d5 (Surr)	97		37 - 147
2-Fluorobiphenyl (Surr)	98		43 - 145
2,4,6-Tribromophenol	94		31 - 143
Terphenyl-d14 (Surr)	100		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-644785/2-A
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644785

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	2.00	2.05		mg/L		103	80 - 120
Beryllium	0.0500	0.0480		mg/L		96	80 - 120
Boron	1.00	0.911		mg/L		91	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.521		mg/L		104	80 - 120
Iron	1.00	0.962		mg/L		96	80 - 120
Lead	0.100	0.0960		mg/L		96	80 - 120
Manganese	0.500	0.486		mg/L		97	80 - 120
Nickel	0.500	0.526		mg/L		105	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.0500	0.0528		mg/L		106	80 - 120
Zinc	0.500	0.568		mg/L		114	80 - 120

Lab Sample ID: LCS 500-644793/2-A
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644793

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Cadmium	0.0500	0.0476		mg/L		95	80 - 120
Lead	0.100	0.0906		mg/L		91	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120

Lab Sample ID: MB 500-644813/1-A
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644813

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Barium	<1.0		1.0	0.11	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Boron	<5.0		5.0	0.47	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Cadmium	0.0530	J	0.20	0.036	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Calcium	5.06	J	20	3.4	mg/Kg		02/28/22 13:00	03/01/22 14:03	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: MB 500-644813/1-A
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644813

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	1.25		1.0	0.50	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Copper	0.282	J	1.0	0.28	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Iron	18.4	J	20	10	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Lead	<0.50		0.50	0.23	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Magnesium	<10		10	5.0	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Manganese	<1.0		1.0	0.15	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Nickel	<1.0		1.0	0.29	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Potassium	<50		50	18	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Silver	<0.50		0.50	0.13	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Sodium	<100		100	15	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/28/22 13:00	03/01/22 14:03	1
Zinc	1.78	J	2.0	0.88	mg/Kg		02/28/22 13:00	03/01/22 14:03	1

Lab Sample ID: MB 500-644813/1-A
Matrix: Solid
Analysis Batch: 645324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644813

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	0.814	J	1.0	0.50	mg/Kg		02/28/22 13:00	03/02/22 11:27	1

Lab Sample ID: LCS 500-644813/2-A
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644813

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	47.3		mg/Kg		95		80 - 120
Arsenic	10.0	8.34		mg/Kg		83		80 - 120
Barium	200	190		mg/Kg		95		80 - 120
Beryllium	5.00	4.57		mg/Kg		91		80 - 120
Boron	100	83.7		mg/Kg		84		80 - 120
Cadmium	5.00	4.58		mg/Kg		92		80 - 120
Calcium	1000	861		mg/Kg		86		80 - 120
Chromium	20.0	19.4		mg/Kg		97		80 - 120
Cobalt	50.0	46.9		mg/Kg		94		80 - 120
Copper	25.0	23.6		mg/Kg		94		80 - 120
Iron	100	110		mg/Kg		110		80 - 120
Lead	10.0	8.61		mg/Kg		86		80 - 120
Magnesium	1000	900		mg/Kg		90		80 - 120
Manganese	50.0	44.9		mg/Kg		90		80 - 120
Nickel	50.0	47.2		mg/Kg		94		80 - 120
Potassium	1000	1020		mg/Kg		102		80 - 120
Selenium	10.0	8.05		mg/Kg		81		80 - 120
Silver	5.00	4.40		mg/Kg		88		80 - 120
Sodium	1000	1030		mg/Kg		103		80 - 120
Thallium	10.0	8.30		mg/Kg		83		80 - 120
Vanadium	50.0	46.5		mg/Kg		93		80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: LCS 500-644813/2-A
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	50.0	46.8		mg/Kg		94	80 - 120

Lab Sample ID: 500-212467-1 MS
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: 2615V2-01-B02 (0-2)
Prep Type: Total/NA
Prep Batch: 644813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.33	J F1 F2	26.4	5.57	F1	mg/Kg	⊛	20	75 - 125
Arsenic	3.8	F1	5.27	7.71	F1	mg/Kg	⊛	74	75 - 125
Barium	28		105	113		mg/Kg	⊛	80	75 - 125
Beryllium	0.35		2.64	2.70		mg/Kg	⊛	89	75 - 125
Boron	6.1	F1	52.7	44.4	F1	mg/Kg	⊛	73	75 - 125
Cadmium	0.14	B	2.64	2.32		mg/Kg	⊛	82	75 - 125
Chromium	9.2	B	10.5	18.1		mg/Kg	⊛	85	75 - 125
Cobalt	5.4		26.4	30.0		mg/Kg	⊛	93	75 - 125
Copper	17	B	13.2	28.7		mg/Kg	⊛	89	75 - 125
Iron	8600	B	52.7	9630	4	mg/Kg	⊛	2028	75 - 125
Lead	34		5.27	34.8	4	mg/Kg	⊛	13	75 - 125
Magnesium	27000	F2	527	26500	4	mg/Kg	⊛	-193	75 - 125
Manganese	310		26.4	330	4	mg/Kg	⊛	59	75 - 125
Nickel	13		26.4	37.9		mg/Kg	⊛	95	75 - 125
Potassium	930	F1	527	2190	F1	mg/Kg	⊛	238	75 - 125
Selenium	<0.52	F1	5.27	3.68	F1	mg/Kg	⊛	70	75 - 125
Silver	0.12	J	2.64	2.44		mg/Kg	⊛	88	75 - 125
Sodium	270		527	736		mg/Kg	⊛	88	75 - 125
Thallium	<0.52		5.27	4.20		mg/Kg	⊛	80	75 - 125
Vanadium	11		26.4	33.6		mg/Kg	⊛	84	75 - 125
Zinc	64	B	26.4	91.2		mg/Kg	⊛	103	75 - 125

Lab Sample ID: 500-212467-1 MS
Matrix: Solid
Analysis Batch: 645324

Client Sample ID: 2615V2-01-B02 (0-2)
Prep Type: Total/NA
Prep Batch: 644813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	68000	B F2	527	65200	4	mg/Kg	⊛	-457	75 - 125

Lab Sample ID: 500-212467-1 MSD
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: 2615V2-01-B02 (0-2)
Prep Type: Total/NA
Prep Batch: 644813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	0.33	J F1 F2	27.3	8.00	F1 F2	mg/Kg	⊛	28	75 - 125	36	20
Arsenic	3.8	F1	5.47	8.53		mg/Kg	⊛	87	75 - 125	10	20
Barium	28		109	121		mg/Kg	⊛	85	75 - 125	7	20
Beryllium	0.35		2.73	2.89		mg/Kg	⊛	93	75 - 125	7	20
Boron	6.1	F1	54.7	48.9		mg/Kg	⊛	78	75 - 125	10	20
Cadmium	0.14	B	2.73	2.63		mg/Kg	⊛	91	75 - 125	13	20
Chromium	9.2	B	10.9	18.7		mg/Kg	⊛	87	75 - 125	3	20
Cobalt	5.4		27.3	31.8		mg/Kg	⊛	96	75 - 125	6	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: 500-212467-1 MSD

Matrix: Solid

Analysis Batch: 645232

Client Sample ID: 2615V2-01-B02 (0-2)

Prep Type: Total/NA

Prep Batch: 644813

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Copper	17	B	13.7	28.8		mg/Kg	⊛	86	75 - 125	0	20
Iron	8600	B	54.7	8630	4	mg/Kg	⊛	111	75 - 125	11	20
Lead	34		5.47	38.5	4	mg/Kg	⊛	80	75 - 125	10	20
Magnesium	27000	F2	547	33500	E 4 F2	mg/Kg	⊛	1105	75 - 125	24	20
Manganese	310		27.3	338	4	mg/Kg	⊛	87	75 - 125	2	20
Nickel	13		27.3	38.4		mg/Kg	⊛	94	75 - 125	1	20
Potassium	930	F1	547	2060	F1	mg/Kg	⊛	206	75 - 125	6	20
Selenium	<0.52	F1	5.47	4.00	F1	mg/Kg	⊛	73	75 - 125	8	20
Silver	0.12	J	2.73	2.66		mg/Kg	⊛	93	75 - 125	9	20
Sodium	270		547	817		mg/Kg	⊛	100	75 - 125	10	20
Thallium	<0.52		5.47	4.49		mg/Kg	⊛	82	75 - 125	7	20
Vanadium	11		27.3	34.1		mg/Kg	⊛	83	75 - 125	2	20
Zinc	64	B	27.3	90.4	^+	mg/Kg	⊛	96	75 - 125	1	20

Lab Sample ID: 500-212467-1 MSD

Matrix: Solid

Analysis Batch: 645324

Client Sample ID: 2615V2-01-B02 (0-2)

Prep Type: Total/NA

Prep Batch: 644813

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Calcium	68000	B F2	547	91000	4 F2	mg/Kg	⊛	4266	75 - 125	33	20

Lab Sample ID: 500-212467-1 DU

Matrix: Solid

Analysis Batch: 645232

Client Sample ID: 2615V2-01-B02 (0-2)

Prep Type: Total/NA

Prep Batch: 644813

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.33	J F1 F2	0.494	J F5	mg/Kg	⊛	41	20
Arsenic	3.8	F1	5.03	F3	mg/Kg	⊛	28	20
Barium	28		33.6		mg/Kg	⊛	18	20
Beryllium	0.35		0.396		mg/Kg	⊛	11	20
Boron	6.1	F1	6.77		mg/Kg	⊛	11	20
Cadmium	0.14	B	0.135		mg/Kg	⊛	5	20
Chromium	9.2	B	10.0		mg/Kg	⊛	9	20
Cobalt	5.4		6.01		mg/Kg	⊛	10	20
Copper	17	B	17.8		mg/Kg	⊛	4	20
Iron	8600	B	9150		mg/Kg	⊛	7	20
Lead	34		36.4		mg/Kg	⊛	6	20
Magnesium	27000	F2	22700		mg/Kg	⊛	19	20
Manganese	310		279		mg/Kg	⊛	12	20
Nickel	13		15.1		mg/Kg	⊛	17	20
Potassium	930	F1	1140		mg/Kg	⊛	20	20
Selenium	<0.52	F1	<0.55		mg/Kg	⊛	NC	20
Silver	0.12	J	0.161	J F5	mg/Kg	⊛	32	20
Sodium	270		263		mg/Kg	⊛	2	20
Thallium	<0.52		<0.55		mg/Kg	⊛	NC	20
Vanadium	11		11.5		mg/Kg	⊛	1	20
Zinc	64	B	64.7		mg/Kg	⊛	1	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: 500-212467-1 DU
Matrix: Solid
Analysis Batch: 645324

Client Sample ID: 2615V2-01-B02 (0-2)
Prep Type: Total/NA
Prep Batch: 644813

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	68000	B F2	60000		mg/Kg	*	12	20

Lab Sample ID: LB 500-644385/1-B
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644785

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 09:01	02/28/22 20:14	1
Boron	<0.50		0.50	0.050	mg/L		02/28/22 09:01	02/28/22 20:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 09:01	02/28/22 20:14	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:14	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:14	1
Iron	0.208	J	0.40	0.20	mg/L		02/28/22 09:01	02/28/22 20:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 09:01	02/28/22 20:14	1
Manganese	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:14	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:14	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 09:01	02/28/22 20:14	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 09:01	02/28/22 20:14	1
Zinc	<0.50		0.50	0.020	mg/L		02/28/22 09:01	02/28/22 20:14	1

Lab Sample ID: 500-212467-2 MS
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: 2615V2-01-B02 (0-2)-DUP
Prep Type: TCLP
Prep Batch: 644785

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Barium	0.48	J	2.00	2.48		mg/L		100	75 - 125
Beryllium	<0.0040		0.0500	0.0463		mg/L		93	75 - 125
Boron	0.057	J	1.00	0.965		mg/L		91	75 - 125
Cadmium	0.0023	J	0.0500	0.0537		mg/L		103	75 - 125
Chromium	<0.025		0.200	0.188		mg/L		94	75 - 125
Cobalt	<0.025		0.500	0.516		mg/L		103	75 - 125
Iron	<0.40		1.00	1.05		mg/L		105	75 - 125
Lead	<0.0075		0.100	0.0958		mg/L		96	75 - 125
Manganese	0.95		0.500	1.39		mg/L		88	75 - 125
Nickel	<0.025		0.500	0.525		mg/L		105	75 - 125
Selenium	<0.050		0.100	0.109		mg/L		109	75 - 125
Silver	<0.025		0.0500	0.0533		mg/L		107	75 - 125
Zinc	0.083	J	0.500	0.620		mg/L		107	75 - 125

Lab Sample ID: 500-212467-2 DU
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: 2615V2-01-B02 (0-2)-DUP
Prep Type: TCLP
Prep Batch: 644785

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Barium	0.48	J	0.462	J	mg/L		4	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.057	J	0.0552	J	mg/L		3	20
Cadmium	0.0023	J	0.00231	J	mg/L		3	20

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: 500-212467-2 DU
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: 2615V2-01-B02 (0-2)-DUP
Prep Type: TCLP
Prep Batch: 644785

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.95		0.897		mg/L		5	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.083	J	0.0807	J	mg/L		3	20

Lab Sample ID: LB 500-644388/1-B
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644793

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 09:04	03/01/22 13:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 09:04	03/01/22 13:30	1
Manganese	<0.025		0.025	0.010	mg/L		02/28/22 09:04	03/01/22 13:30	1

Lab Sample ID: 500-212467-4 MS
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: 2615V2-01-B05 (0-3)
Prep Type: SPLP East
Prep Batch: 644793

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Cadmium	<0.0050		0.0500	0.0475		mg/L		95	75 - 125
Lead	0.078		0.100	0.175		mg/L		97	75 - 125
Manganese	0.19		0.500	0.696		mg/L		102	75 - 125

Lab Sample ID: 500-212467-4 DU
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: 2615V2-01-B05 (0-3)
Prep Type: SPLP East
Prep Batch: 644793

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Lead	0.078		0.0770		mg/L		1	20
Manganese	0.19		0.189		mg/L		0.9	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644785/2-A
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644785

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.469		mg/L		94	80 - 120
Thallium	0.100	0.0957		mg/L		96	80 - 120

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

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

Lab Sample ID: LB 500-644385/1-B
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644785

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 09:01	02/28/22 18:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 09:01	02/28/22 18:43	1

Lab Sample ID: 500-212467-2 MS
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: 2615V2-01-B02 (0-2)-DUP
Prep Type: TCLP
Prep Batch: 644785

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Antimony	<0.0060		0.500	0.469		mg/L		94	75 - 125
Thallium	<0.0020		0.100	0.0950		mg/L		95	75 - 125

Lab Sample ID: 500-212467-2 DU
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: 2615V2-01-B02 (0-2)-DUP
Prep Type: TCLP
Prep Batch: 644785

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

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644805/13-A
Matrix: Solid
Analysis Batch: 645111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644805

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 14:43	1

Lab Sample ID: LCS 500-644805/14-A
Matrix: Solid
Analysis Batch: 645111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644805

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Mercury	0.00200	0.00204		mg/L		102	80 - 120

Lab Sample ID: LB 500-644385/1-C
Matrix: Solid
Analysis Batch: 645111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644805

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 14:41	1

Lab Sample ID: 500-212467-2 MS
Matrix: Solid
Analysis Batch: 645111

Client Sample ID: 2615V2-01-B02 (0-2)-DUP
Prep Type: TCLP
Prep Batch: 644805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-212467-2 DU
 Matrix: Solid
 Analysis Batch: 645111

Client Sample ID: 2615V2-01-B02 (0-2)-DUP
 Prep Type: TCLP
 Prep Batch: 644805

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

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-645075/12-A
 Matrix: Solid
 Analysis Batch: 645272

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 645075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		03/01/22 14:00	03/02/22 07:42	1

Lab Sample ID: LCS 500-645075/13-A
 Matrix: Solid
 Analysis Batch: 645272

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 645075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.177		mg/Kg		106	80 - 120

Lab Sample ID: 500-212467-9 MS
 Matrix: Solid
 Analysis Batch: 645272

Client Sample ID: 2615V2-01-B08 (0-2)
 Prep Type: Total/NA
 Prep Batch: 645075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.23	F1	0.0892	0.256	F1	mg/Kg	⊛	25	75 - 125

Lab Sample ID: 500-212467-9 MSD
 Matrix: Solid
 Analysis Batch: 645272

Client Sample ID: 2615V2-01-B08 (0-2)
 Prep Type: Total/NA
 Prep Batch: 645075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.23	F1	0.0896	0.231	F1	mg/Kg	⊛	-2	75 - 125	10	20

Lab Sample ID: 500-212467-9 DU
 Matrix: Solid
 Analysis Batch: 645272

Client Sample ID: 2615V2-01-B08 (0-2)
 Prep Type: Total/NA
 Prep Batch: 645075

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.23	F1	0.230		mg/Kg	⊛	1	20

Method: 9045D - pH

Lab Sample ID: 500-212467-8 DU
 Matrix: Solid
 Analysis Batch: 643892

Client Sample ID: 2615V2-01-B01 (0-2)
 Prep Type: Total/NA

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

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)

Lab Sample ID: 500-212467-1

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644388	02/24/22 16:01	EA	TAL CHI
SPLP East	Prep	3010A			644793	02/28/22 09:04	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 15:05	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645033	02/28/22 20:21	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:47	FXG	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	7470A			644805	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 14:48	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 21:21	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643841	02/22/22 14:29	LWN	TAL CHI

Client Sample ID: 2615V2-01-B02 (0-2)

Lab Sample ID: 500-212467-1

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644778	02/28/22 12:54	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644670	02/27/22 17:15	SS	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645232	03/01/22 14:09	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		5	645324	03/02/22 11:31	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 07:46	MJG	TAL CHI

Client Sample ID: 2615V2-01-B02 (0-2)-DUP

Lab Sample ID: 500-212467-2

Date Collected: 02/16/22 08:17

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644388	02/24/22 16:01	EA	TAL CHI
SPLP East	Prep	3010A			644793	02/28/22 09:04	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 15:14	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645033	02/28/22 20:24	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:49	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B02 (0-2)-DUP
Date Collected: 02/16/22 08:17
Date Received: 02/16/22 16:45

Lab Sample ID: 500-212467-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	7470A			644805	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 14:54	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 21:24	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643841	02/22/22 14:29	LWN	TAL CHI

Client Sample ID: 2615V2-01-B02 (0-2)-DUP
Date Collected: 02/16/22 08:17
Date Received: 02/16/22 16:45

Lab Sample ID: 500-212467-2
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644778	02/28/22 13:20	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644670	02/27/22 17:39	SS	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645232	03/01/22 14:32	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645324	03/02/22 11:47	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		5	645324	03/02/22 11:50	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 07:48	MJG	TAL CHI

Client Sample ID: 2615V2-01-B03 (0-2)
Date Collected: 02/16/22 08:45
Date Received: 02/16/22 16:45

Lab Sample ID: 500-212467-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644388	02/24/22 16:01	EA	TAL CHI
SPLP East	Prep	3010A			644793	02/28/22 09:04	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 15:18	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645033	02/28/22 20:47	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:57	FXG	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	7470A			644805	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 15:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 21:26	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643841	02/22/22 14:29	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B03 (0-2)

Lab Sample ID: 500-212467-3

Date Collected: 02/16/22 08:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644778	02/28/22 13:45	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644670	02/27/22 18:03	SS	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645232	03/01/22 14:42	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645324	03/02/22 12:00	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 07:51	MJG	TAL CHI

Client Sample ID: 2615V2-01-B05 (0-3)

Lab Sample ID: 500-212467-4

Date Collected: 02/16/22 09:05

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644388	02/24/22 16:01	EA	TAL CHI
SPLP East	Prep	3010A			644793	02/28/22 09:04	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 15:21	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645033	02/28/22 20:51	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 19:03	FXG	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	7470A			644805	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 15:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 21:29	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643841	02/22/22 14:29	LWN	TAL CHI

Client Sample ID: 2615V2-01-B05 (0-3)

Lab Sample ID: 500-212467-4

Date Collected: 02/16/22 09:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644778	02/28/22 14:11	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644772	02/28/22 16:06	SS	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645232	03/01/22 14:45	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645324	03/02/22 12:10	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B05 (0-3)

Lab Sample ID: 500-212467-4

Date Collected: 02/16/22 09:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		5	645324	03/02/22 12:13	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 07:53	MJG	TAL CHI

Client Sample ID: 2615V2-01-B06 (0-3)

Lab Sample ID: 500-212467-5

Date Collected: 02/16/22 09:15

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644388	02/24/22 16:01	EA	TAL CHI
SPLP East	Prep	3010A			644793	02/28/22 09:04	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 15:33	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645033	02/28/22 20:54	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 19:05	FXG	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	7470A			644805	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 15:05	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 21:31	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643841	02/22/22 14:29	LWN	TAL CHI

Client Sample ID: 2615V2-01-B06 (0-3)

Lab Sample ID: 500-212467-5

Date Collected: 02/16/22 09:15

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644778	02/28/22 14:37	PMF	TAL CHI
Total/NA	Prep	3541	DL		644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D	DL	5	644984	03/01/22 10:27	JSB	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644772	02/28/22 16:29	SS	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645232	03/01/22 14:48	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645324	03/02/22 12:16	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 07:55	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B07 (0-3)

Lab Sample ID: 500-212467-6

Date Collected: 02/16/22 09:45

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644388	02/24/22 16:01	EA	TAL CHI
SPLP East	Prep	3010A			644793	02/28/22 09:04	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 15:36	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645033	02/28/22 20:58	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 19:07	FXG	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	7470A			644805	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 15:07	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 21:34	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643841	02/22/22 14:29	LWN	TAL CHI

Client Sample ID: 2615V2-01-B07 (0-3)

Lab Sample ID: 500-212467-6

Date Collected: 02/16/22 09:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644778	02/28/22 15:02	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		10	644772	02/28/22 17:40	SS	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645232	03/01/22 14:51	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645324	03/02/22 12:22	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		5	645324	03/02/22 12:26	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:02	MJG	TAL CHI

Client Sample ID: 2615V2-01-B04 (0-2)

Lab Sample ID: 500-212467-7

Date Collected: 02/16/22 10:40

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644388	02/24/22 16:01	EA	TAL CHI
SPLP East	Prep	3010A			644793	02/28/22 09:04	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 15:40	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645033	02/28/22 21:01	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B04 (0-2)

Lab Sample ID: 500-212467-7

Date Collected: 02/16/22 10:40

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 19:09	FXG	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	7470A			644805	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 15:09	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 21:36	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643841	02/22/22 14:29	LWN	TAL CHI

Client Sample ID: 2615V2-01-B04 (0-2)

Lab Sample ID: 500-212467-7

Date Collected: 02/16/22 10:40

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644778	02/28/22 15:28	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644772	02/28/22 16:53	SS	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645232	03/01/22 14:55	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645324	03/02/22 12:29	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		5	645324	03/02/22 12:39	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:03	MJG	TAL CHI

Client Sample ID: 2615V2-01-B01 (0-2)

Lab Sample ID: 500-212467-8

Date Collected: 02/16/22 10:42

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644388	02/24/22 16:01	EA	TAL CHI
SPLP East	Prep	3010A			644793	02/28/22 09:04	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 15:43	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645104	03/01/22 11:53	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645033	02/28/22 21:04	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 19:12	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B01 (0-2)

Lab Sample ID: 500-212467-8

Date Collected: 02/16/22 10:42

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	7470A			644805	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 15:11	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 21:41	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643841	02/22/22 14:29	LWN	TAL CHI

Client Sample ID: 2615V2-01-B01 (0-2)

Lab Sample ID: 500-212467-8

Date Collected: 02/16/22 10:42

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644778	02/28/22 15:54	PMF	TAL CHI
Total/NA	Prep	3541	DL		644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D	DL	50	644984	03/01/22 10:48	JSB	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		10	644772	02/28/22 18:04	SS	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645232	03/01/22 14:58	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645324	03/02/22 12:42	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		5	645324	03/02/22 12:45	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:06	MJG	TAL CHI

Client Sample ID: 2615V2-01-B08 (0-2)

Lab Sample ID: 500-212467-9

Date Collected: 02/16/22 15:05

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644388	02/24/22 16:01	EA	TAL CHI
SPLP East	Prep	3010A			644793	02/28/22 09:04	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 15:56	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	645033	02/28/22 21:08	JJB	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	3010A			644785	02/28/22 09:01	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 19:14	FXG	TAL CHI
TCLP	Leach	1311			644385	02/24/22 16:41	EA	TAL CHI
TCLP	Prep	7470A			644805	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 15:13	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 21:46	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643841	02/22/22 14:29	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Client Sample ID: 2615V2-01-B08 (0-2)

Lab Sample ID: 500-212467-9

Date Collected: 02/16/22 15:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 83.7

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644778	02/28/22 16:20	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644772	02/28/22 17:17	SS	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645232	03/01/22 15:01	JJB	TAL CHI
Total/NA	Prep	3050B			644813	02/28/22 13:00		TAL CHI
Total/NA	Analysis	6010B		1	645324	03/02/22 12:49	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:08	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212467-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

- 1
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Chain of Custody Record

542662




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager D. Tiebout		Site Contact		Date 2/16/22		COC No				
Company Name WSP		Tel/Email		Lab Contact D. Wright		Carrier		1 of 2 COCs				
Address		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____		Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		500-212467 COC				
City/State/Zip												
Phone WO 08 Greenway		<input type="checkbox"/> 2 weeks		VOC SVOC Metal TCCLP PH Solids				Sampler				
Fax		<input checked="" type="checkbox"/> 1 week (standard)						For Lab Use Only				
Project Name TAI 90/94/2		<input type="checkbox"/> 2 days						Walk-in Client				
Site		<input type="checkbox"/> 1 day						Lab Sampling				
P O #								Job / SDG No 500-212467				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes					
1	2615V2-01-B02 (0-2)	2/16/22	8:17	G	S	5	X	X	X	X	X	
2	2615V2-01-B02 (0-2)-DUP	2/16/22	8:17	G	S	5	X	X	X	X	X	
3	2615V2-01-B03 (0-2)	2/16/22	8:45	G	S	5	X	X	X	X	X	
4	2615V2-01-B05 (0-3)	2/16/22	9:05	G	S	5	X	X	X	X	X	
5	2615V2-01-B06 (0-3)	2/16/22	9:15	G	S	5	X	X	X	X	X	
6	2615V2-01-B07 (0-3)	2/16/22	9:49	G	S	5	X	X	X	X	X	
7	2615V2-01-B04 (0-2)	2/16/22	10:40	G	S	5	X	X	X	X	X	
8	2615V2-01-B01 (0-2)	2/16/22	10:42	G	S	5	X	X	X	X	X	
9	2615V2-01-B08 (0-2)	2/16/22	11:05	G	S	5	X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other _____												
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: 4.4+3.4												
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____		Corr'd _____		Therm ID No _____				
Relinquished by Caitlyn Cooper		Company WSP		Date/Time		Received by P. Viet		Company eurofins				
Relinquished by [Signature]		Company [Signature]		Date/Time 2/16/22 1645		Received by		Date/Time				
Relinquished by		Company		Date/Time		Received in Laboratory by Stephanie Hernandez		Company EETA				
								Date/Time 2/16/22 1645				

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- 12
- 13
- 14
- 15

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212467-1

Login Number: 212467

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-212658-1

Client Project/Site: IDOT - 196-002-WO008 Byrne Interchange

For:

WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
3/7/2022 1:23:32 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Job ID: 500-212658-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212658-1

Comments

No additional comments.

Receipt

The samples were received on 2/21/2022 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: 2615V2-01-B35 (0-3) (500-212658-10) and 2615V2-01-B32 (0-1) (500-212658-11). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard. 4-Bromofluorobenzene surrogate recovery was also high.

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644843 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample contained one acid surrogate outside acceptance limits: 2615V2-01-B33 (0-3) (500-212658-6). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644984 was outside the method criteria for the following analyte(s): multi analytes. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-645551 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, 2,4,6-Trichlorophenol, Pentachlorophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-645551 was outside the method criteria for the following analyte(s): Benzo[k]fluoranthene, Indeno[1,2,3-cd]pyrene and Carbazole. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Internal standard responses for Perylene-d12 was outside of acceptance limits for the following samples: 2615V2-01-B29 (0-2) (500-212658-5) and 2615V2-01-B31 (0-1) (500-212658-8). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-645557 was outside the method criteria for the following analyte(s): 4-Nitrophenol, 2,4-Dinitrophenol, Phenol, Bis(2-ethylhexyl) phthalate, 2,4,6-Tribromophenol, 2-Methylphenol, Hexachlorocyclopentadiene, Pentachlorophenol and 2-Chlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample contained one acid surrogate outside acceptance limits: 2615V2-01-B29 (0-2) (500-212658-5) and 2615V2-01-B31 (0-1) (500-212658-8). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits;

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Job ID: 500-212658-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 2615V2-01-B30 (0-3) (500-212658-9) and 2615V2-01-B35 (0-3) (500-212658-10). Analytes associated to this internal standard were below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-644613 and analytical batch 500-645551 were outside control limits. Sample matrix interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: 2615V2-01-B33 (0-3) (500-212658-6). The sample has an extremely large ketone peak that is affected the early eluting analytes.

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

Metals

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

General Chemistry

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

Organic Prep

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



Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B12 (0-2)

Lab Sample ID: 500-212658-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.070		0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.014	J	0.041	0.0069	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.12		0.041	0.0077	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.10		0.041	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.058		0.041	0.0056	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.071		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.041	0.0089	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.044		0.041	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.069		0.041	0.0080	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.041	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.61	J F1	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.7	F1	0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	91		0.61	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.81		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Boron	5.9	F1	3.1	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.043	J B	0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	8200	F2	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	19	B	0.80	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.31	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	15		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	18000	B	12	6.4	mg/Kg	1	✳	6010B	Total/NA
Lead	24		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	6400		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	550		0.61	0.089	mg/Kg	1	✳	6010B	Total/NA
Nickel	18	B	0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	1800	F1	31	11	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.45	J F1	0.61	0.36	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30	J	0.31	0.079	mg/Kg	1	✳	6010B	Total/NA
Sodium	57	J	61	9.1	mg/Kg	1	✳	6010B	Total/NA
Vanadium	27		0.31	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	55		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.056	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.29	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.055	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.076		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B11 (0-3)

Lab Sample ID: 500-212658-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.27		0.038	0.0060	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.16		0.078	0.0071	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.031	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.21		0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.20		0.19	0.045	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.29		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B11 (0-3) (Continued)

Lab Sample ID: 500-212658-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	1.8		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.42		0.038	0.0065	mg/Kg	1	✳	8270D	Total/NA
Carbazole	0.21		0.19	0.097	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.8		0.038	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.7		0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.78		0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.79		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.038	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.47		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.82		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.042		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.087		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.62	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.9		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	65		0.57	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.67		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	8.4		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.041	J B	0.11	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	50000		57	9.7	mg/Kg	5	✳	6010B	Total/NA
Chromium	16	B	0.75	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	6.8		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	15		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	14000	B	11	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	21		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	24000		5.7	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	310		0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	15	B	0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1700		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.24	J	0.29	0.074	mg/Kg	1	✳	6010B	Total/NA
Sodium	140		57	8.5	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	48		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.090	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.89		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.083	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.035		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B10 (0-3)

Lab Sample ID: 500-212658-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0084	J	0.041	0.0064	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.0077	J	0.041	0.0074	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0073	J	0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.21		0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.042		0.041	0.0069	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.28		0.041	0.0077	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.13		0.041	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.059		0.041	0.0056	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B10 (0-3) (Continued)

Lab Sample ID: 500-212658-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.067		0.041	0.011	mg/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	0.092		0.041	0.0089	mg/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	0.039	J	0.041	0.012	mg/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	0.065		0.041	0.0080	mg/Kg	1	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.041	0.011	mg/Kg	1	☒	8270D	Total/NA
Antimony	0.70	J	1.2	0.24	mg/Kg	1	☒	6010B	Total/NA
Arsenic	6.6		0.62	0.21	mg/Kg	1	☒	6010B	Total/NA
Barium	84		0.62	0.070	mg/Kg	1	☒	6010B	Total/NA
Beryllium	0.78		0.25	0.057	mg/Kg	1	☒	6010B	Total/NA
Boron	7.0		3.1	0.29	mg/Kg	1	☒	6010B	Total/NA
Cadmium	0.042	J B	0.12	0.022	mg/Kg	1	☒	6010B	Total/NA
Calcium	18000		12	2.1	mg/Kg	1	☒	6010B	Total/NA
Chromium	18	B	0.80	0.30	mg/Kg	1	☒	6010B	Total/NA
Cobalt	10		0.31	0.081	mg/Kg	1	☒	6010B	Total/NA
Copper	16		0.62	0.17	mg/Kg	1	☒	6010B	Total/NA
Iron	17000	B	12	6.4	mg/Kg	1	☒	6010B	Total/NA
Lead	21		0.31	0.14	mg/Kg	1	☒	6010B	Total/NA
Magnesium	11000		6.2	3.1	mg/Kg	1	☒	6010B	Total/NA
Manganese	540		0.62	0.089	mg/Kg	1	☒	6010B	Total/NA
Nickel	19	B	0.62	0.18	mg/Kg	1	☒	6010B	Total/NA
Potassium	1900		31	11	mg/Kg	1	☒	6010B	Total/NA
Selenium	0.70		0.62	0.36	mg/Kg	1	☒	6010B	Total/NA
Silver	0.32		0.31	0.079	mg/Kg	1	☒	6010B	Total/NA
Sodium	180		62	9.1	mg/Kg	1	☒	6010B	Total/NA
Vanadium	25		0.31	0.073	mg/Kg	1	☒	6010B	Total/NA
Zinc	59		1.2	0.54	mg/Kg	1	☒	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.076	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.053	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.079		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.019	0.0062	mg/Kg	1	☒	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B28 (0-1)

Lab Sample ID: 500-212658-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.018	J	0.040	0.0062	mg/Kg	1	☒	8270D	Total/NA
2-Methylnaphthalene	0.022	J	0.082	0.0074	mg/Kg	1	☒	8270D	Total/NA
Acenaphthylene	0.015	J	0.040	0.0053	mg/Kg	1	☒	8270D	Total/NA
Acenaphthene	0.047		0.040	0.0073	mg/Kg	1	☒	8270D	Total/NA
Fluorene	0.043		0.040	0.0057	mg/Kg	1	☒	8270D	Total/NA
Phenanthrene	0.47		0.040	0.0056	mg/Kg	1	☒	8270D	Total/NA
Anthracene	0.083		0.040	0.0068	mg/Kg	1	☒	8270D	Total/NA
Fluoranthene	0.57		0.040	0.0075	mg/Kg	1	☒	8270D	Total/NA
Pyrene	0.60		0.040	0.0080	mg/Kg	1	☒	8270D	Total/NA
Benzo[a]anthracene	0.26		0.040	0.0054	mg/Kg	1	☒	8270D	Total/NA
Chrysene	0.30		0.040	0.011	mg/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	0.45		0.040	0.0087	mg/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	0.16		0.040	0.012	mg/Kg	1	☒	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-212658-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Client Sample ID: 2615V2-01-B28 (0-1) (Continued)

Lab Sample ID: 500-212658-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.30		0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.054		0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.018	J	0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.051		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.60	J	1.2	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.5		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	49		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.75		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	15		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.094	J B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	64000		58	9.8	mg/Kg	5	✳	6010B	Total/NA
Chromium	18	B	0.75	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	32		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	17000	B	12	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	81		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	31000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	290		0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	29	B	0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		29	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.34	J	0.58	0.34	mg/Kg	1	✳	6010B	Total/NA
Silver	0.27	J	0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	530		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	80		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.093	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.097	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.16		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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Client Sample ID: 2615V2-01-B34 (0-3)

Lab Sample ID: 500-212658-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.038		0.019	0.0083	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0035	J	0.0048	0.0021	mg/Kg	1	✳	8260B	Total/NA
Naphthalene	0.057		0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.14		0.079	0.0072	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.033	J	0.039	0.0071	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.048	J	0.20	0.046	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.018	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.28		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.019	J	0.039	0.0066	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.089		0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.13		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.043		0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.090		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.55	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.6		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	36		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.68		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	15		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.050	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	110000		56	9.5	mg/Kg	5	✳	6010B	Total/NA
Chromium	14	B	0.73	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.9		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	28		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B34 (0-3) (Continued)

Lab Sample ID: 500-212658-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	18000		56	29	mg/Kg	5	✳	6010B	Total/NA
Lead	19		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	56000		28	14	mg/Kg	5	✳	6010B	Total/NA
Manganese	250		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	26	B	0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Silver	0.21	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	560		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	45		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.084		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.026	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.029		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B31 (0-1)

Lab Sample ID: 500-212658-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.022	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.037		0.037	0.0069	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.046		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	0.027	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.037	*3	0.037	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.016	J *3	0.037	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.024	J *3	0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.27	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	1.6		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	11		0.53	0.060	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.27		0.21	0.049	mg/Kg	1	✳	6010B	Total/NA
Boron	12		2.6	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.047	J B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	200000		110	18	mg/Kg	10	✳	6010B	Total/NA
Chromium	6.2	B	0.69	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	1.5		0.26	0.069	mg/Kg	1	✳	6010B	Total/NA
Copper	5.6		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	5000		53	27	mg/Kg	5	✳	6010B	Total/NA
Lead	4.5		0.26	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	110000		26	13	mg/Kg	5	✳	6010B	Total/NA
Manganese	200		0.53	0.077	mg/Kg	1	✳	6010B	Total/NA
Nickel	5.1	B	0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	580		26	9.4	mg/Kg	1	✳	6010B	Total/NA
Sodium	270		53	7.8	mg/Kg	1	✳	6010B	Total/NA
Vanadium	5.0		0.26	0.062	mg/Kg	1	✳	6010B	Total/NA
Zinc	15		1.1	0.46	mg/Kg	1	✳	6010B	Total/NA
Barium	0.094	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.063	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B31 (0-1) (Continued)

Lab Sample ID: 500-212658-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.63		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.095	J	0.50	0.020	mg/L	1		6010B	TCLP
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B30 (0-3)

Lab Sample ID: 500-212658-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.022	J	0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.036		0.036	0.0067	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.055		0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.018	J	0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.026	J	0.036	0.0099	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.022	J *3	0.036	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.028	J *3	0.036	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.029	J *3	0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J *3	0.036	0.0094	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J *3	0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.24	J	1.0	0.20	mg/Kg	1	✳	6010B	Total/NA
Arsenic	1.4		0.52	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	7.5		0.52	0.059	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.17	J	0.21	0.048	mg/Kg	1	✳	6010B	Total/NA
Boron	7.3		2.6	0.24	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.045	J B	0.10	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	100000		52	8.8	mg/Kg	5	✳	6010B	Total/NA
Chromium	7.1	B	0.67	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	2.1		0.26	0.068	mg/Kg	1	✳	6010B	Total/NA
Copper	4.6		0.52	0.14	mg/Kg	1	✳	6010B	Total/NA
Iron	4900		52	27	mg/Kg	5	✳	6010B	Total/NA
Lead	4.7		0.26	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	56000		26	13	mg/Kg	5	✳	6010B	Total/NA
Manganese	120		0.52	0.075	mg/Kg	1	✳	6010B	Total/NA
Nickel	5.9	B	0.52	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	530		26	9.1	mg/Kg	1	✳	6010B	Total/NA
Sodium	1100		52	7.6	mg/Kg	1	✳	6010B	Total/NA
Vanadium	7.4		0.26	0.061	mg/Kg	1	✳	6010B	Total/NA
Zinc	19		1.0	0.45	mg/Kg	1	✳	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.071	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.88		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.057	J	0.50	0.020	mg/L	1		6010B	TCLP
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B35 (0-3)

Lab Sample ID: 500-212658-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.040	J	0.080	0.0073	mg/Kg	1	✳	8270D	Total/NA
N-Nitrosodiphenylamine	0.089	J	0.20	0.047	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.16		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B35 (0-3) (Continued)

Lab Sample ID: 500-212658-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.031	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.030	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.61	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Calcium	44000		56	9.5	mg/Kg	5	☼	6010B	Total/NA
Chromium	16	B	0.73	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	36		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	37	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		28	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.33		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	46		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.089		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.037	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B32 (0-1)

Lab Sample ID: 500-212658-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.029	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0060	J	0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.053		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.063		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.026	J	0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.036		0.035	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.045		0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J F1	0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J F1	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.0		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	9.7		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.20		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	10		2.5	0.23	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.063	J B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Calcium	210000		100	17	mg/Kg	10	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-212658-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Client Sample ID: 2615V2-01-B32 (0-1) (Continued)

Lab Sample ID: 500-212658-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	5.8	B	0.65	0.25	mg/Kg	1	✳	6010B	Total/NA
Cobalt	2.3		0.25	0.066	mg/Kg	1	✳	6010B	Total/NA
Copper	5.9		0.50	0.14	mg/Kg	1	✳	6010B	Total/NA
Iron	5400		50	26	mg/Kg	5	✳	6010B	Total/NA
Lead	8.8		0.25	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	98000		25	12	mg/Kg	5	✳	6010B	Total/NA
Manganese	180		0.50	0.073	mg/Kg	1	✳	6010B	Total/NA
Nickel	6.1	B	0.50	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	660		25	8.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	800		50	7.4	mg/Kg	1	✳	6010B	Total/NA
Vanadium	6.4		0.25	0.059	mg/Kg	1	✳	6010B	Total/NA
Zinc	17		1.0	0.44	mg/Kg	1	✳	6010B	Total/NA
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.064	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.013	J	0.016	0.0054	mg/Kg	1	✳	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212658-1	2615V2-01-B12 (0-2)	Solid	02/21/22 09:10	02/21/22 16:40
500-212658-2	2615V2-01-B11 (0-3)	Solid	02/21/22 09:50	02/21/22 16:40
500-212658-3	2615V2-01-B10 (0-3)	Solid	02/21/22 10:00	02/21/22 16:40
500-212658-4	2615V2-01-B28 (0-1)	Solid	02/21/22 10:50	02/21/22 16:40
500-212658-7	2615V2-01-B34 (0-3)	Solid	02/21/22 12:10	02/21/22 16:40
500-212658-8	2615V2-01-B31 (0-1)	Solid	02/21/22 12:30	02/21/22 16:40
500-212658-9	2615V2-01-B30 (0-3)	Solid	02/21/22 12:40	02/21/22 16:40
500-212658-10	2615V2-01-B35 (0-3)	Solid	02/21/22 13:00	02/21/22 16:40
500-212658-11	2615V2-01-B32 (0-1)	Solid	02/21/22 14:15	02/21/22 16:40

- 1
- 2
- 3
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- 5
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- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B12 (0-2)

Lab Sample ID: 500-212658-1

Date Collected: 02/21/22 09:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0092	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
2-Butanone (MEK)	<0.0053		0.0053	0.0023	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
1,2-Dichloroethane	<0.0053		0.0053	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
1,2-Dichloropropene	<0.0021		0.0021	0.00054	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	✳	02/21/22 17:30	03/01/22 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	02/21/22 17:30	03/01/22 14:18	1
Dibromofluoromethane	104		75 - 126	02/21/22 17:30	03/01/22 14:18	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/21/22 17:30	03/01/22 14:18	1
Toluene-d8 (Surr)	97		75 - 124	02/21/22 17:30	03/01/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	✳	02/25/22 19:12	02/28/22 19:42	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	✳	02/25/22 19:12	02/28/22 19:42	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	✳	02/25/22 19:12	02/28/22 19:42	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✳	02/25/22 19:12	02/28/22 19:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B12 (0-2)

Lab Sample ID: 500-212658-1

Date Collected: 02/21/22 09:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Isophorone	<0.21		0.21	0.046	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Phenanthrene	0.070		0.041	0.0058	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Anthracene	0.014 J		0.041	0.0069	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Carbazole	<0.21		0.21	0.10	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Fluoranthene	0.12		0.041	0.0077	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Pyrene	0.10		0.041	0.0082	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1
Benzo[a]anthracene	0.058		0.041	0.0056	mg/Kg	✱	02/25/22 19:12	02/28/22 19:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B12 (0-2)

Lab Sample ID: 500-212658-1

Date Collected: 02/21/22 09:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.071		0.041	0.011	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
Benzo[b]fluoranthene	0.10		0.041	0.0089	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
Benzo[k]fluoranthene	0.044		0.041	0.012	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
Benzo[a]pyrene	0.069		0.041	0.0080	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
Indeno[1,2,3-cd]pyrene	0.019 J		0.041	0.011	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
Benzo[g,h,i]perylene	0.026 J		0.041	0.013	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☆	02/25/22 19:12	02/28/22 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		31 - 166	02/25/22 19:12	02/28/22 19:42	1
Phenol-d5	80		30 - 153	02/25/22 19:12	02/28/22 19:42	1
Nitrobenzene-d5 (Surr)	68		37 - 147	02/25/22 19:12	02/28/22 19:42	1
2-Fluorobiphenyl (Surr)	81		43 - 145	02/25/22 19:12	02/28/22 19:42	1
2,4,6-Tribromophenol	74		31 - 143	02/25/22 19:12	02/28/22 19:42	1
Terphenyl-d14 (Surr)	96		42 - 157	02/25/22 19:12	02/28/22 19:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61 J F1		1.2	0.24	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Arsenic	6.7 F1		0.61	0.21	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Barium	91		0.61	0.070	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Beryllium	0.81		0.24	0.057	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Boron	5.9 F1		3.1	0.28	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Cadmium	0.043 J B		0.12	0.022	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Calcium	8200 F2		12	2.1	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Chromium	19 B		0.80	0.30	mg/Kg	☆	03/03/22 09:00	03/04/22 13:05	1
Cobalt	11		0.31	0.080	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Copper	15		0.61	0.17	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Iron	18000 B		12	6.4	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Lead	24		0.31	0.14	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Magnesium	6400		6.1	3.0	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Manganese	550		0.61	0.089	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Nickel	18 B		0.61	0.18	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Potassium	1800 F1		31	11	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Selenium	0.45 J F1		0.61	0.36	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Silver	0.30 J		0.31	0.079	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Sodium	57 J		61	9.1	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Thallium	<0.61		0.61	0.31	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Vanadium	27		0.31	0.072	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1
Zinc	55		1.2	0.54	mg/Kg	☆	03/03/22 09:00	03/03/22 15:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47 J		0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 00:25	1
Boron	0.056 J		0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B12 (0-2)

Lab Sample ID: 500-212658-1

Date Collected: 02/21/22 09:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 00:25	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:25	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:25	1
Iron	0.29	J	0.40	0.20	mg/L		02/28/22 08:56	03/01/22 00:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 00:25	1
Manganese	1.6		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:25	1
Nickel	0.012	J	0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 00:25	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:25	1
Zinc	0.055	J	0.50	0.020	mg/L		02/28/22 08:56	03/01/22 00:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.55		0.025	0.010	mg/L		03/01/22 07:55	03/02/22 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		0.019	0.0063	mg/Kg	☆	03/03/22 11:00	03/04/22 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.3		0.2	0.2	SU			02/24/22 08:50	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B11 (0-3)

Lab Sample ID: 500-212658-2

Date Collected: 02/21/22 09:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		75 - 131	02/21/22 17:30	03/01/22 14:44	1
Dibromofluoromethane	104		75 - 126	02/21/22 17:30	03/01/22 14:44	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/21/22 17:30	03/01/22 14:44	1
Toluene-d8 (Surr)	93		75 - 124	02/21/22 17:30	03/01/22 14:44	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	✳	02/25/22 19:12	03/04/22 17:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	✳	02/25/22 19:12	03/04/22 17:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✳	02/25/22 19:12	03/04/22 17:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	✳	02/25/22 19:12	03/04/22 17:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B11 (0-3)

Lab Sample ID: 500-212658-2

Date Collected: 02/21/22 09:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.6

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	✱	02/25/22 19:12	03/04/22 17:29	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Naphthalene	0.27		0.038	0.0060	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2-Methylnaphthalene	0.16		0.078	0.0071	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Acenaphthylene	0.031 J		0.038	0.0051	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Acenaphthene	0.21		0.038	0.0070	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Dibenzofuran	0.20		0.19	0.045	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Fluorene	0.29		0.038	0.0054	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Phenanthrene	1.8		0.038	0.0054	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Anthracene	0.42		0.038	0.0065	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Carbazole	0.21		0.19	0.097	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Fluoranthene	1.8		0.038	0.0072	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Pyrene	1.7		0.038	0.0077	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1
Benzo[a]anthracene	0.78		0.038	0.0052	mg/Kg	✱	02/25/22 19:12	03/04/22 17:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B11 (0-3)

Lab Sample ID: 500-212658-2

Date Collected: 02/21/22 09:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.79		0.038	0.011	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
Benzo[b]fluoranthene	1.3		0.038	0.0084	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
Benzo[k]fluoranthene	0.47		0.038	0.011	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
Benzo[a]pyrene	0.82		0.038	0.0075	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.010	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
Dibenz(a,h)anthracene	0.042		0.038	0.0075	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
Benzo[g,h,i]perylene	0.087		0.038	0.012	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/25/22 19:12	03/04/22 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		31 - 166				02/25/22 19:12	03/04/22 17:29	1
Phenol-d5	80		30 - 153				02/25/22 19:12	03/04/22 17:29	1
Nitrobenzene-d5 (Surr)	62		37 - 147				02/25/22 19:12	03/04/22 17:29	1
2-Fluorobiphenyl (Surr)	72		43 - 145				02/25/22 19:12	03/04/22 17:29	1
2,4,6-Tribromophenol	59		31 - 143				02/25/22 19:12	03/04/22 17:29	1
Terphenyl-d14 (Surr)	94		42 - 157				02/25/22 19:12	03/04/22 17:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.1	0.22	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Arsenic	5.9		0.57	0.20	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Barium	65		0.57	0.066	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Beryllium	0.67		0.23	0.054	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Boron	8.4		2.9	0.27	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Cadmium	0.041	J B	0.11	0.021	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Calcium	50000		57	9.7	mg/Kg	☼	03/03/22 09:00	03/04/22 13:30	5
Chromium	16	B	0.75	0.28	mg/Kg	☼	03/03/22 09:00	03/04/22 13:21	1
Cobalt	6.8		0.29	0.075	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Copper	15		0.57	0.16	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Iron	14000	B	11	6.0	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Lead	21		0.29	0.13	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Magnesium	24000		5.7	2.9	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Manganese	310		0.57	0.083	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Nickel	15	B	0.57	0.17	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Potassium	1700		29	10	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Silver	0.24	J	0.29	0.074	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Sodium	140		57	8.5	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Vanadium	22		0.29	0.068	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1
Zinc	48		1.1	0.50	mg/Kg	☼	03/03/22 09:00	03/03/22 16:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 00:45	1
Boron	0.090	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:45	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B11 (0-3)

Lab Sample ID: 500-212658-2

Date Collected: 02/21/22 09:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 00:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:45	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:45	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	03/01/22 00:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 00:45	1
Manganese	0.89		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:45	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 00:45	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:45	1
Zinc	0.083 J		0.50	0.020	mg/L		02/28/22 08:56	03/01/22 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/02/22 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0063	mg/Kg	☆	03/03/22 11:00	03/04/22 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			02/24/22 08:52	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B10 (0-3)

Lab Sample ID: 500-212658-3

Date Collected: 02/21/22 10:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0085	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
1,2-Dichloropropene	<0.0020		0.0020	0.00051	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Toluene	<0.0020		0.0020	0.00049	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	✱	02/21/22 17:30	03/01/22 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	02/21/22 17:30	03/01/22 15:35	1
Dibromofluoromethane	100		75 - 126	02/21/22 17:30	03/01/22 15:35	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/21/22 17:30	03/01/22 15:35	1
Toluene-d8 (Surr)	99		75 - 124	02/21/22 17:30	03/01/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B10 (0-3)

Lab Sample ID: 500-212658-3

Date Collected: 02/21/22 10:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Isophorone	<0.21		0.21	0.047	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Naphthalene	0.0084	J	0.041	0.0064	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2-Methylnaphthalene	<0.084		0.084	0.0076	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Acenaphthene	0.0077	J	0.041	0.0074	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Fluorene	0.0073	J	0.041	0.0058	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Pentachlorophenol	<0.84		0.84	0.66	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Phenanthrene	0.21		0.041	0.0058	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Anthracene	0.042		0.041	0.0069	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Carbazole	<0.21		0.21	0.10	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Fluoranthene	0.28		0.041	0.0077	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Pyrene	0.13		0.041	0.0082	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1
Benzo[a]anthracene	0.059		0.041	0.0056	mg/Kg	✳	02/25/22 19:12	03/04/22 17:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B10 (0-3)

Lab Sample ID: 500-212658-3

Date Collected: 02/21/22 10:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.067		0.041	0.011	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Benzo[b]fluoranthene	0.092		0.041	0.0089	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Benzo[k]fluoranthene	0.039 J		0.041	0.012	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Benzo[a]pyrene	0.065		0.041	0.0080	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Indeno[1,2,3-cd]pyrene	0.016 J		0.041	0.011	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	✱	02/25/22 19:12	03/04/22 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		31 - 166				02/25/22 19:12	03/04/22 17:53	1
Phenol-d5	67		30 - 153				02/25/22 19:12	03/04/22 17:53	1
Nitrobenzene-d5 (Surr)	51		37 - 147				02/25/22 19:12	03/04/22 17:53	1
2-Fluorobiphenyl (Surr)	65		43 - 145				02/25/22 19:12	03/04/22 17:53	1
2,4,6-Tribromophenol	36		31 - 143				02/25/22 19:12	03/04/22 17:53	1
Terphenyl-d14 (Surr)	92		42 - 157				02/25/22 19:12	03/04/22 17:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70 J		1.2	0.24	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Arsenic	6.6		0.62	0.21	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Barium	84		0.62	0.070	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Beryllium	0.78		0.25	0.057	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Boron	7.0		3.1	0.29	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Cadmium	0.042 J B		0.12	0.022	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Calcium	18000		12	2.1	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Chromium	18 B		0.80	0.30	mg/Kg	✱	03/03/22 09:00	03/04/22 13:33	1
Cobalt	10		0.31	0.081	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Copper	16		0.62	0.17	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Iron	17000 B		12	6.4	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Lead	21		0.31	0.14	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Magnesium	11000		6.2	3.1	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Manganese	540		0.62	0.089	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Nickel	19 B		0.62	0.18	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Potassium	1900		31	11	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Selenium	0.70		0.62	0.36	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Silver	0.32		0.31	0.079	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Sodium	180		62	9.1	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Thallium	<0.62		0.62	0.31	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Vanadium	25		0.31	0.073	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1
Zinc	59		1.2	0.54	mg/Kg	✱	03/03/22 09:00	03/03/22 16:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 00:49	1
Boron	0.076 J		0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:49	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B10 (0-3)

Lab Sample ID: 500-212658-3

Date Collected: 02/21/22 10:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 00:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:49	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:49	1
Iron	0.21	J	0.40	0.20	mg/L		02/28/22 08:56	03/01/22 00:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 00:49	1
Manganese	1.1		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:49	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 00:49	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:49	1
Zinc	0.053	J	0.50	0.020	mg/L		02/28/22 08:56	03/01/22 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.079		0.025	0.010	mg/L		03/01/22 07:55	03/02/22 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0062	mg/Kg	☆	03/03/22 11:00	03/04/22 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.2		0.2	0.2	SU			02/24/22 08:55	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B28 (0-1)

Lab Sample ID: 500-212658-4

Date Collected: 02/21/22 10:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Carbon disulfide	<0.0045		0.0045	0.00095	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	02/21/22 17:30	03/01/22 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		75 - 131	02/21/22 17:30	03/01/22 16:01	1
Dibromofluoromethane	101		75 - 126	02/21/22 17:30	03/01/22 16:01	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	02/21/22 17:30	03/01/22 16:01	1
Toluene-d8 (Surr)	100		75 - 124	02/21/22 17:30	03/01/22 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B28 (0-1)

Lab Sample ID: 500-212658-4

Date Collected: 02/21/22 10:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Naphthalene	0.018	J	0.040	0.0062	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2-Methylnaphthalene	0.022	J	0.082	0.0074	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Acenaphthylene	0.015	J	0.040	0.0053	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Acenaphthene	0.047		0.040	0.0073	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Fluorene	0.043		0.040	0.0057	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Phenanthrene	0.47		0.040	0.0056	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Anthracene	0.083		0.040	0.0068	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Fluoranthene	0.57		0.040	0.0075	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Pyrene	0.60		0.040	0.0080	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1
Benzo[a]anthracene	0.26		0.040	0.0054	mg/Kg	✳	02/25/22 19:12	03/04/22 18:17	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B28 (0-1)

Lab Sample ID: 500-212658-4

Date Collected: 02/21/22 10:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.30		0.040	0.011	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
Benzo[b]fluoranthene	0.45		0.040	0.0087	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
Benzo[k]fluoranthene	0.16		0.040	0.012	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
Benzo[a]pyrene	0.30		0.040	0.0078	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
Indeno[1,2,3-cd]pyrene	0.054		0.040	0.010	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
Dibenz(a,h)anthracene	0.018	J	0.040	0.0078	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
Benzo[g,h,i]perylene	0.051		0.040	0.013	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	✱	02/25/22 19:12	03/04/22 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		31 - 166				02/25/22 19:12	03/04/22 18:17	1
Phenol-d5	65		30 - 153				02/25/22 19:12	03/04/22 18:17	1
Nitrobenzene-d5 (Surr)	60		37 - 147				02/25/22 19:12	03/04/22 18:17	1
2-Fluorobiphenyl (Surr)	77		43 - 145				02/25/22 19:12	03/04/22 18:17	1
2,4,6-Tribromophenol	58		31 - 143				02/25/22 19:12	03/04/22 18:17	1
Terphenyl-d14 (Surr)	95		42 - 157				02/25/22 19:12	03/04/22 18:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.2	0.22	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Arsenic	7.5		0.58	0.20	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Barium	49		0.58	0.066	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Beryllium	0.75		0.23	0.054	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Boron	15		2.9	0.27	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Cadmium	0.094	J B	0.12	0.021	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Calcium	64000		58	9.8	mg/Kg	✱	03/03/22 09:00	03/04/22 13:40	5
Chromium	18	B	0.75	0.29	mg/Kg	✱	03/03/22 09:00	03/04/22 13:36	1
Cobalt	11		0.29	0.076	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Copper	32		0.58	0.16	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Iron	17000	B	12	6.0	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Lead	81		0.29	0.13	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Magnesium	31000		5.8	2.9	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Manganese	290		0.58	0.084	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Nickel	29	B	0.58	0.17	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Potassium	2400		29	10	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Selenium	0.34	J	0.58	0.34	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Silver	0.27	J	0.29	0.075	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Sodium	530		58	8.6	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Thallium	<0.58		0.58	0.29	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Vanadium	18		0.29	0.068	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1
Zinc	80		1.2	0.51	mg/Kg	✱	03/03/22 09:00	03/03/22 16:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 00:52	1
Boron	0.093	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:52	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B28 (0-1)

Lab Sample ID: 500-212658-4

Date Collected: 02/21/22 10:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0025	J	0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 00:52	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:52	1
Cobalt	0.036		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:52	1
Iron	0.24	J	0.40	0.20	mg/L		02/28/22 08:56	03/01/22 00:52	1
Lead	0.012		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 00:52	1
Manganese	2.8		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:52	1
Nickel	0.041		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 00:52	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:52	1
Zinc	0.097	J	0.50	0.020	mg/L		02/28/22 08:56	03/01/22 00:52	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		03/01/22 07:55	03/02/22 15:55	1
Manganese	0.024	J	0.025	0.010	mg/L		03/01/22 07:55	03/02/22 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.019	0.0063	mg/Kg	☼	03/03/22 11:00	03/04/22 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4		0.2	0.2	SU			02/24/22 08:57	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B34 (0-3)

Lab Sample ID: 500-212658-7

Date Collected: 02/21/22 12:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.038		0.019	0.0083	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
2-Butanone (MEK)	0.0035 J		0.0048	0.0021	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
1,2-Dichloropropene	<0.0019		0.0019	0.00049	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	02/21/22 17:30	03/01/22 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		75 - 131	02/21/22 17:30	03/01/22 17:18	1
Dibromofluoromethane	97		75 - 126	02/21/22 17:30	03/01/22 17:18	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/21/22 17:30	03/01/22 17:18	1
Toluene-d8 (Surr)	100		75 - 124	02/21/22 17:30	03/01/22 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B34 (0-3)

Lab Sample ID: 500-212658-7

Date Collected: 02/21/22 12:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Naphthalene	0.057		0.039	0.0060	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2-Methylnaphthalene	0.14		0.079	0.0072	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Acenaphthene	0.033 J		0.039	0.0071	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Dibenzofuran	0.048 J		0.20	0.046	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Fluorene	0.018 J		0.039	0.0055	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Phenanthrene	0.28		0.039	0.0055	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Anthracene	0.019 J		0.039	0.0066	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Fluoranthene	0.089		0.039	0.0073	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Pyrene	0.13		0.039	0.0078	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1
Benzo[a]anthracene	0.043		0.039	0.0053	mg/Kg	✳	02/25/22 19:12	03/04/22 19:06	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B34 (0-3)

Lab Sample ID: 500-212658-7

Date Collected: 02/21/22 12:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.090		0.039	0.011	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0085	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0076	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0076	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/25/22 19:12	03/04/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	112		31 - 166				02/25/22 19:12	03/04/22 19:06	1
Phenol-d5	113		30 - 153				02/25/22 19:12	03/04/22 19:06	1
Nitrobenzene-d5 (Surr)	84		37 - 147				02/25/22 19:12	03/04/22 19:06	1
2-Fluorobiphenyl (Surr)	85		43 - 145				02/25/22 19:12	03/04/22 19:06	1
2,4,6-Tribromophenol	60		31 - 143				02/25/22 19:12	03/04/22 19:06	1
Terphenyl-d14 (Surr)	122		42 - 157				02/25/22 19:12	03/04/22 19:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.22	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Arsenic	6.6		0.56	0.19	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Barium	36		0.56	0.064	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Beryllium	0.68		0.22	0.052	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Boron	15		2.8	0.26	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Cadmium	0.050	J B	0.11	0.020	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Calcium	110000		56	9.5	mg/Kg	☼	03/03/22 09:00	03/04/22 13:59	5
Chromium	14	B	0.73	0.28	mg/Kg	☼	03/03/22 09:00	03/04/22 13:56	1
Cobalt	9.9		0.28	0.073	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Copper	28		0.56	0.16	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Iron	18000		56	29	mg/Kg	☼	03/03/22 09:00	03/04/22 13:59	5
Lead	19		0.28	0.13	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Magnesium	56000		28	14	mg/Kg	☼	03/03/22 09:00	03/04/22 13:59	5
Manganese	250		0.56	0.081	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Nickel	26	B	0.56	0.16	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Potassium	2300		28	9.9	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Silver	0.21	J	0.28	0.072	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Sodium	560		56	8.3	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Vanadium	15		0.28	0.066	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1
Zinc	45		1.1	0.49	mg/Kg	☼	03/03/22 09:00	03/03/22 16:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 01:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 01:03	1
Boron	0.11	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 01:03	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B34 (0-3)

Lab Sample ID: 500-212658-7

Date Collected: 02/21/22 12:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 01:03	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:03	1
Cobalt	0.037		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:03	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	03/01/22 01:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 01:03	1
Manganese	1.7		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:03	1
Nickel	0.084		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:03	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 01:03	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:03	1
Zinc	0.026 J		0.50	0.020	mg/L		02/28/22 08:56	03/01/22 01:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/02/22 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0060	mg/Kg	☆	03/03/22 11:00	03/04/22 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.0		0.2	0.2	SU			02/24/22 09:00	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B31 (0-1)

Lab Sample ID: 500-212658-8

Date Collected: 02/21/22 12:30

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
1,2-Dichloropropene	<0.0019		0.0019	0.00049	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	✱	02/21/22 17:30	03/01/22 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	02/21/22 17:30	03/01/22 17:44	1
Dibromofluoromethane	100		75 - 126	02/21/22 17:30	03/01/22 17:44	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	02/21/22 17:30	03/01/22 17:44	1
Toluene-d8 (Surr)	97		75 - 124	02/21/22 17:30	03/01/22 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B31 (0-1)

Lab Sample ID: 500-212658-8

Date Collected: 02/21/22 12:30

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 86.0

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	0.045	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Phenanthrene	0.022	J	0.037	0.0052	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Fluoranthene	0.037		0.037	0.0069	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Pyrene	0.046		0.037	0.0074	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1
Benzo[a]anthracene	0.021	J	0.037	0.0050	mg/Kg	✱	02/25/22 19:12	03/04/22 19:30	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B31 (0-1)

Lab Sample ID: 500-212658-8

Date Collected: 02/21/22 12:30

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.027	J	0.037	0.010	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
Benzo[b]fluoranthene	0.037	*3	0.037	0.0080	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
Benzo[k]fluoranthene	0.016	J *3	0.037	0.011	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
Benzo[a]pyrene	0.024	J *3	0.037	0.0072	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0097	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0072	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/25/22 19:12	03/04/22 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		31 - 166	02/25/22 19:12	03/04/22 19:30	1
Phenol-d5	100		30 - 153	02/25/22 19:12	03/04/22 19:30	1
Nitrobenzene-d5 (Surr)	70		37 - 147	02/25/22 19:12	03/04/22 19:30	1
2-Fluorobiphenyl (Surr)	82		43 - 145	02/25/22 19:12	03/04/22 19:30	1
2,4,6-Tribromophenol	26	S1-	31 - 143	02/25/22 19:12	03/04/22 19:30	1
Terphenyl-d14 (Surr)	113		42 - 157	02/25/22 19:12	03/04/22 19:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.21	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Arsenic	1.6		0.53	0.18	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Barium	11		0.53	0.060	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Beryllium	0.27		0.21	0.049	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Boron	12		2.6	0.25	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Cadmium	0.047	J B	0.11	0.019	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Calcium	200000		110	18	mg/Kg	☼	03/03/22 09:00	03/04/22 15:16	10
Chromium	6.2	B	0.69	0.26	mg/Kg	☼	03/03/22 09:00	03/04/22 14:12	1
Cobalt	1.5		0.26	0.069	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Copper	5.6		0.53	0.15	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Iron	5000		53	27	mg/Kg	☼	03/03/22 09:00	03/04/22 14:16	5
Lead	4.5		0.26	0.12	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Magnesium	110000		26	13	mg/Kg	☼	03/03/22 09:00	03/04/22 14:16	5
Manganese	200		0.53	0.077	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Nickel	5.1	B	0.53	0.15	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Potassium	580		26	9.4	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Sodium	270		53	7.8	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Vanadium	5.0		0.26	0.062	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1
Zinc	15		1.1	0.46	mg/Kg	☼	03/03/22 09:00	03/03/22 16:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.094	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 01:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 01:06	1
Boron	0.063	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 01:06	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B31 (0-1)

Lab Sample ID: 500-212658-8

Date Collected: 02/21/22 12:30

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 01:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:06	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:06	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	03/01/22 01:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 01:06	1
Manganese	0.63		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:06	1
Nickel	0.011	J	0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 01:06	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:06	1
Zinc	0.095	J	0.50	0.020	mg/L		02/28/22 08:56	03/01/22 01:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/02/22 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg	☆	03/03/22 11:00	03/04/22 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9		0.2	0.2	SU			02/24/22 10:17	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B30 (0-3)

Lab Sample ID: 500-212658-9

Date Collected: 02/21/22 12:40

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 90.1

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	✳	02/21/22 17:30	03/01/22 18:09	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
1,2-Dichloropropene	<0.0016		0.0016	0.00042	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	✳	02/21/22 17:30	03/01/22 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		75 - 131	02/21/22 17:30	03/01/22 18:09	1
Dibromofluoromethane	92		75 - 126	02/21/22 17:30	03/01/22 18:09	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/21/22 17:30	03/01/22 18:09	1
Toluene-d8 (Surr)	103		75 - 124	02/21/22 17:30	03/01/22 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	✳	02/25/22 19:12	03/04/22 17:23	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	✳	02/25/22 19:12	03/04/22 17:23	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✳	02/25/22 19:12	03/04/22 17:23	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	✳	02/25/22 19:12	03/04/22 17:23	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B30 (0-3)

Lab Sample ID: 500-212658-9

Date Collected: 02/21/22 12:40

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Isophorone	<0.18		0.18	0.041	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Phenanthrene	0.022	J	0.036	0.0051	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Carbazole	<0.18		0.18	0.091	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Fluoranthene	0.036		0.036	0.0067	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Pyrene	0.055		0.036	0.0072	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1
Benzo[a]anthracene	0.018	J	0.036	0.0049	mg/Kg	✱	02/25/22 19:12	03/04/22 17:23	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B30 (0-3)

Lab Sample ID: 500-212658-9

Date Collected: 02/21/22 12:40

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.036	0.0099	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
Benzo[b]fluoranthene	0.022	J *3	0.036	0.0078	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
Benzo[k]fluoranthene	0.028	J *3	0.036	0.011	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
Benzo[a]pyrene	0.029	J *3	0.036	0.0070	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
Indeno[1,2,3-cd]pyrene	0.016	J *3	0.036	0.0094	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
Dibenz(a,h)anthracene	<0.036	*3	0.036	0.0070	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
Benzo[g,h,i]perylene	0.016	J *3	0.036	0.012	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/25/22 19:12	03/04/22 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	118		31 - 166	02/25/22 19:12	03/04/22 17:23	1
Phenol-d5	116		30 - 153	02/25/22 19:12	03/04/22 17:23	1
Nitrobenzene-d5 (Surr)	70		37 - 147	02/25/22 19:12	03/04/22 17:23	1
2-Fluorobiphenyl (Surr)	80		43 - 145	02/25/22 19:12	03/04/22 17:23	1
2,4,6-Tribromophenol	43		31 - 143	02/25/22 19:12	03/04/22 17:23	1
Terphenyl-d14 (Surr)	133		42 - 157	02/25/22 19:12	03/04/22 17:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.0	0.20	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Arsenic	1.4		0.52	0.18	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Barium	7.5		0.52	0.059	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Beryllium	0.17	J	0.21	0.048	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Boron	7.3		2.6	0.24	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Cadmium	0.045	J B	0.10	0.019	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Calcium	100000		52	8.8	mg/Kg	☼	03/03/22 09:00	03/04/22 14:22	5
Chromium	7.1	B	0.67	0.26	mg/Kg	☼	03/03/22 09:00	03/04/22 14:19	1
Cobalt	2.1		0.26	0.068	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Copper	4.6		0.52	0.14	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Iron	4900		52	27	mg/Kg	☼	03/03/22 09:00	03/04/22 14:22	5
Lead	4.7		0.26	0.12	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Magnesium	56000		26	13	mg/Kg	☼	03/03/22 09:00	03/04/22 14:22	5
Manganese	120		0.52	0.075	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Nickel	5.9	B	0.52	0.15	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Potassium	530		26	9.1	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Selenium	<0.52		0.52	0.30	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Silver	<0.26		0.26	0.067	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Sodium	1100		52	7.6	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Vanadium	7.4		0.26	0.061	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1
Zinc	19		1.0	0.45	mg/Kg	☼	03/03/22 09:00	03/03/22 16:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.18	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 01:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 01:10	1
Boron	0.071	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 01:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B30 (0-3)

Lab Sample ID: 500-212658-9

Date Collected: 02/21/22 12:40

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 01:10	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:10	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:10	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	03/01/22 01:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 01:10	1
Manganese	0.88		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:10	1
Nickel	0.013	J	0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 01:10	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:10	1
Zinc	0.057	J	0.50	0.020	mg/L		02/28/22 08:56	03/01/22 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/02/22 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg	☆	03/03/22 11:00	03/04/22 08:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.0		0.2	0.2	SU			02/25/22 10:48	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B35 (0-3)

Lab Sample ID: 500-212658-10

Date Collected: 02/21/22 13:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00054	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	02/21/22 17:30	03/01/22 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	*3 S1+	75 - 131	02/21/22 17:30	03/01/22 18:35	1
Dibromofluoromethane	102		75 - 126	02/21/22 17:30	03/01/22 18:35	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/21/22 17:30	03/01/22 18:35	1
Toluene-d8 (Surr)	114		75 - 124	02/21/22 17:30	03/01/22 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/25/22 19:12	03/04/22 17:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/25/22 19:12	03/04/22 17:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/25/22 19:12	03/04/22 17:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/25/22 19:12	03/04/22 17:44	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B35 (0-3)

Lab Sample ID: 500-212658-10

Date Collected: 02/21/22 13:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2-Methylnaphthalene	0.040	J	0.080	0.0073	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
N-Nitrosodiphenylamine	0.089	J	0.20	0.047	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Phenanthrene	0.16		0.039	0.0055	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Pyrene	0.031	J	0.039	0.0079	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B35 (0-3)

Lab Sample ID: 500-212658-10

Date Collected: 02/21/22 13:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.030	J	0.039	0.011	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0086	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0077	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0077	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✱	02/25/22 19:12	03/04/22 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		31 - 166				02/25/22 19:12	03/04/22 17:44	1
Phenol-d5	24	S1-	30 - 153				02/25/22 19:12	03/04/22 17:44	1
Nitrobenzene-d5 (Surr)	75		37 - 147				02/25/22 19:12	03/04/22 17:44	1
2-Fluorobiphenyl (Surr)	72		43 - 145				02/25/22 19:12	03/04/22 17:44	1
2,4,6-Tribromophenol	50		31 - 143				02/25/22 19:12	03/04/22 17:44	1
Terphenyl-d14 (Surr)	105		42 - 157				02/25/22 19:12	03/04/22 17:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.1	0.22	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Arsenic	8.8		0.56	0.19	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Barium	30		0.56	0.064	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Beryllium	0.77		0.23	0.053	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Boron	13		2.8	0.26	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Calcium	44000		56	9.5	mg/Kg	✱	03/03/22 09:00	03/04/22 14:29	5
Chromium	16	B	0.73	0.28	mg/Kg	✱	03/03/22 09:00	03/04/22 14:26	1
Cobalt	14		0.28	0.074	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Copper	36		0.56	0.16	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Iron	19000	B	11	5.9	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Lead	16		0.28	0.13	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Magnesium	20000		5.6	2.8	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Manganese	280		0.56	0.082	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Nickel	37	B	0.56	0.16	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Potassium	2500		28	10	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Selenium	<0.56		0.56	0.33	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Silver	0.33		0.28	0.073	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Sodium	260		56	8.3	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Thallium	0.36	J	0.56	0.28	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Vanadium	17		0.28	0.066	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	1
Zinc	46		1.1	0.49	mg/Kg	✱	03/03/22 09:00	03/03/22 16:50	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		02/28/22 08:56	03/01/22 01:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 01:13	1
Boron	0.074	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 01:13	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B35 (0-3)

Lab Sample ID: 500-212658-10

Date Collected: 02/21/22 13:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 01:13	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:13	1
Cobalt	0.037		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:13	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	03/01/22 01:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 01:13	1
Manganese	1.9		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:13	1
Nickel	0.089		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:13	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 01:13	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:13	1
Zinc	0.037 J		0.50	0.020	mg/L		02/28/22 08:56	03/01/22 01:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.030		0.025	0.010	mg/L		03/01/22 07:55	03/02/22 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0058	mg/Kg	☆	03/03/22 11:00	03/04/22 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5		0.2	0.2	SU			02/25/22 10:50	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B32 (0-1)

Lab Sample ID: 500-212658-11

Date Collected: 02/21/22 14:15

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0068	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
1,2-Dichloropropene	<0.0016		0.0016	0.00041	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
1,1,2,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00050	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	✳	02/21/22 17:30	03/01/22 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	*3 S1+	75 - 131	02/21/22 17:30	03/01/22 19:01	1
Dibromofluoromethane	108		75 - 126	02/21/22 17:30	03/01/22 19:01	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/21/22 17:30	03/01/22 19:01	1
Toluene-d8 (Surr)	104		75 - 124	02/21/22 17:30	03/01/22 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	✳	02/25/22 19:12	03/04/22 18:05	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	✳	02/25/22 19:12	03/04/22 18:05	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	✳	02/25/22 19:12	03/04/22 18:05	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	✳	02/25/22 19:12	03/04/22 18:05	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B32 (0-1)

Lab Sample ID: 500-212658-11

Date Collected: 02/21/22 14:15

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Hexachloroethane	<0.18	F1	0.18	0.054	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Isophorone	<0.18		0.18	0.040	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2,4-Dimethylphenol	<0.35	F1	0.35	0.13	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Hexachlorocyclopentadiene	<0.71	F1	0.71	0.20	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2,4-Dinitrophenol	<0.71	F1	0.71	0.62	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
4-Nitrophenol	<0.71		0.71	0.34	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Pentachlorophenol	<0.71	F1	0.71	0.57	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Phenanthrene	0.029	J	0.035	0.0049	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Anthracene	0.0060	J	0.035	0.0059	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Carbazole	<0.18		0.18	0.088	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Fluoranthene	0.053		0.035	0.0066	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Pyrene	0.063		0.035	0.0070	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1
Benzo[a]anthracene	0.026	J	0.035	0.0048	mg/Kg	✱	02/25/22 19:12	03/04/22 18:05	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B32 (0-1)

Lab Sample ID: 500-212658-11

Date Collected: 02/21/22 14:15

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.036		0.035	0.0096	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
Benzo[b]fluoranthene	0.045		0.035	0.0076	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
Indeno[1,2,3-cd]pyrene	0.019	J F1	0.035	0.0092	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
Dibenz(a,h)anthracene	<0.035	F1	0.035	0.0068	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
Benzo[g,h,i]perylene	0.014	J F1	0.035	0.011	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☆	02/25/22 19:12	03/04/22 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		31 - 166	02/25/22 19:12	03/04/22 18:05	1
Phenol-d5	103		30 - 153	02/25/22 19:12	03/04/22 18:05	1
Nitrobenzene-d5 (Surr)	69		37 - 147	02/25/22 19:12	03/04/22 18:05	1
2-Fluorobiphenyl (Surr)	86		43 - 145	02/25/22 19:12	03/04/22 18:05	1
2,4,6-Tribromophenol	51		31 - 143	02/25/22 19:12	03/04/22 18:05	1
Terphenyl-d14 (Surr)	123		42 - 157	02/25/22 19:12	03/04/22 18:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.0	0.20	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Arsenic	3.0		0.50	0.17	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Barium	9.7		0.50	0.057	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Beryllium	0.20		0.20	0.047	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Boron	10		2.5	0.23	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Cadmium	0.063	J B	0.10	0.018	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Calcium	210000		100	17	mg/Kg	☆	03/03/22 09:00	03/04/22 15:29	10
Chromium	5.8	B	0.65	0.25	mg/Kg	☆	03/03/22 09:00	03/04/22 14:32	1
Cobalt	2.3		0.25	0.066	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Copper	5.9		0.50	0.14	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Iron	5400		50	26	mg/Kg	☆	03/03/22 09:00	03/04/22 14:35	5
Lead	8.8		0.25	0.12	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Magnesium	98000		25	12	mg/Kg	☆	03/03/22 09:00	03/04/22 14:35	5
Manganese	180		0.50	0.073	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Nickel	6.1	B	0.50	0.15	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Potassium	660		25	8.9	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Selenium	<0.50		0.50	0.30	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Silver	<0.25		0.25	0.065	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Sodium	800		50	7.4	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Thallium	<0.50		0.50	0.25	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Vanadium	6.4		0.25	0.059	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1
Zinc	17		1.0	0.44	mg/Kg	☆	03/03/22 09:00	03/03/22 16:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 01:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 01:23	1
Boron	0.064	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 01:23	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B32 (0-1)

Lab Sample ID: 500-212658-11

Date Collected: 02/21/22 14:15

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 01:23	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:23	1
Cobalt	0.022	J	0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:23	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	03/01/22 01:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 01:23	1
Manganese	1.3		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:23	1
Nickel	0.018	J	0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 01:23	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 01:23	1
Zinc	0.033	J	0.50	0.020	mg/L		02/28/22 08:56	03/01/22 01:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/02/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.016	0.0054	mg/Kg	☆	03/03/22 11:00	03/04/22 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7		0.2	0.2	SU			02/24/22 10:17	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Definitions/Glossary

Client: WSP USA Inc.

Job ID: 500-212658-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

GC/MS VOA

Prep Batch: 644721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	5035	
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	5035	
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	5035	
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	5035	
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	5035	
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	5035	
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	5035	
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	5035	
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	5035	
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	5035	
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	5035	

Analysis Batch: 645019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	8260B	644721
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	8260B	644721
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	8260B	644721
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	8260B	644721
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	8260B	644721
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	8260B	644721
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	8260B	644721
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	8260B	644721
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	8260B	644721
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	8260B	644721
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	8260B	644721
MB 500-645019/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-645019/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	3541	
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	3541	
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	3541	
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	3541	
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	3541	
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	3541	
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	3541	
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	3541	
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	3541	
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	3541	
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	3541	
MB 500-644613/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644613/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-212658-11 MS	2615V2-01-B32 (0-1)	Total/NA	Solid	3541	
500-212658-11 MSD	2615V2-01-B32 (0-1)	Total/NA	Solid	3541	

Analysis Batch: 644843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	8270D	644613

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

GC/MS Semi VOA (Continued)

Analysis Batch: 644843 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-644613/1-A	Method Blank	Total/NA	Solid	8270D	644613
LCS 500-644613/2-A	Lab Control Sample	Total/NA	Solid	8270D	644613

Analysis Batch: 644984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	8270D	644613

Analysis Batch: 645551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	8270D	644613
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	8270D	644613
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	8270D	644613
500-212658-11 MS	2615V2-01-B32 (0-1)	Total/NA	Solid	8270D	644613
500-212658-11 MSD	2615V2-01-B32 (0-1)	Total/NA	Solid	8270D	644613

Analysis Batch: 645557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	8270D	644613
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	8270D	644613
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	8270D	644613
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	8270D	644613
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	8270D	644613
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	8270D	644613

Metals

Leach Batch: 644598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	TCLP	Solid	1311	
500-212658-2	2615V2-01-B11 (0-3)	TCLP	Solid	1311	
500-212658-3	2615V2-01-B10 (0-3)	TCLP	Solid	1311	
500-212658-4	2615V2-01-B28 (0-1)	TCLP	Solid	1311	
500-212658-5	2615V2-01-B29 (0-2)	TCLP	Solid	1311	
500-212658-6	2615V2-01-B33 (0-3)	TCLP	Solid	1311	
500-212658-7	2615V2-01-B34 (0-3)	TCLP	Solid	1311	
500-212658-8	2615V2-01-B31 (0-1)	TCLP	Solid	1311	
500-212658-9	2615V2-01-B30 (0-3)	TCLP	Solid	1311	
500-212658-10	2615V2-01-B35 (0-3)	TCLP	Solid	1311	
500-212658-11	2615V2-01-B32 (0-1)	TCLP	Solid	1311	
LB 500-644598/2-B	Method Blank	TCLP	Solid	1311	
LB 500-644598/2-C	Method Blank	TCLP	Solid	1311	
500-212658-1 MS	2615V2-01-B12 (0-2)	TCLP	Solid	1311	
500-212658-1 DU	2615V2-01-B12 (0-2)	TCLP	Solid	1311	

Leach Batch: 644601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	SPLP East	Solid	1312	
500-212658-2	2615V2-01-B11 (0-3)	SPLP East	Solid	1312	
500-212658-3	2615V2-01-B10 (0-3)	SPLP East	Solid	1312	
500-212658-4	2615V2-01-B28 (0-1)	SPLP East	Solid	1312	
500-212658-5	2615V2-01-B29 (0-2)	SPLP East	Solid	1312	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Metals (Continued)

Leach Batch: 644601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-6	2615V2-01-B33 (0-3)	SPLP East	Solid	1312	
500-212658-7	2615V2-01-B34 (0-3)	SPLP East	Solid	1312	
500-212658-8	2615V2-01-B31 (0-1)	SPLP East	Solid	1312	
500-212658-9	2615V2-01-B30 (0-3)	SPLP East	Solid	1312	
500-212658-10	2615V2-01-B35 (0-3)	SPLP East	Solid	1312	
500-212658-11	2615V2-01-B32 (0-1)	SPLP East	Solid	1312	
LB 500-644601/1-B	Method Blank	SPLP East	Solid	1312	
500-212658-6 MS	2615V2-01-B33 (0-3)	SPLP East	Solid	1312	
500-212658-6 DU	2615V2-01-B33 (0-3)	SPLP East	Solid	1312	

Prep Batch: 644783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	TCLP	Solid	3010A	644598
500-212658-2	2615V2-01-B11 (0-3)	TCLP	Solid	3010A	644598
500-212658-3	2615V2-01-B10 (0-3)	TCLP	Solid	3010A	644598
500-212658-4	2615V2-01-B28 (0-1)	TCLP	Solid	3010A	644598
500-212658-5	2615V2-01-B29 (0-2)	TCLP	Solid	3010A	644598
500-212658-6	2615V2-01-B33 (0-3)	TCLP	Solid	3010A	644598
500-212658-7	2615V2-01-B34 (0-3)	TCLP	Solid	3010A	644598
500-212658-8	2615V2-01-B31 (0-1)	TCLP	Solid	3010A	644598
500-212658-9	2615V2-01-B30 (0-3)	TCLP	Solid	3010A	644598
500-212658-10	2615V2-01-B35 (0-3)	TCLP	Solid	3010A	644598
500-212658-11	2615V2-01-B32 (0-1)	TCLP	Solid	3010A	644598
LB 500-644598/2-B	Method Blank	TCLP	Solid	3010A	644598
LCS 500-644783/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212658-1 MS	2615V2-01-B12 (0-2)	TCLP	Solid	3010A	644598
500-212658-1 DU	2615V2-01-B12 (0-2)	TCLP	Solid	3010A	644598

Prep Batch: 644808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	TCLP	Solid	7470A	644598
500-212658-2	2615V2-01-B11 (0-3)	TCLP	Solid	7470A	644598
500-212658-3	2615V2-01-B10 (0-3)	TCLP	Solid	7470A	644598
500-212658-4	2615V2-01-B28 (0-1)	TCLP	Solid	7470A	644598
500-212658-5	2615V2-01-B29 (0-2)	TCLP	Solid	7470A	644598
500-212658-6	2615V2-01-B33 (0-3)	TCLP	Solid	7470A	644598
500-212658-7	2615V2-01-B34 (0-3)	TCLP	Solid	7470A	644598
500-212658-8	2615V2-01-B31 (0-1)	TCLP	Solid	7470A	644598
500-212658-9	2615V2-01-B30 (0-3)	TCLP	Solid	7470A	644598
500-212658-10	2615V2-01-B35 (0-3)	TCLP	Solid	7470A	644598
500-212658-11	2615V2-01-B32 (0-1)	TCLP	Solid	7470A	644598
LB 500-644598/2-C	Method Blank	TCLP	Solid	7470A	644598
MB 500-644808/13-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-644808/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-212658-1 MS	2615V2-01-B12 (0-2)	TCLP	Solid	7470A	644598
500-212658-1 DU	2615V2-01-B12 (0-2)	TCLP	Solid	7470A	644598

Prep Batch: 644992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	SPLP East	Solid	3010A	644601
500-212658-2	2615V2-01-B11 (0-3)	SPLP East	Solid	3010A	644601

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Metals (Continued)

Prep Batch: 644992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-3	2615V2-01-B10 (0-3)	SPLP East	Solid	3010A	644601
500-212658-4	2615V2-01-B28 (0-1)	SPLP East	Solid	3010A	644601
500-212658-5	2615V2-01-B29 (0-2)	SPLP East	Solid	3010A	644601
500-212658-6	2615V2-01-B33 (0-3)	SPLP East	Solid	3010A	644601
500-212658-7	2615V2-01-B34 (0-3)	SPLP East	Solid	3010A	644601
500-212658-8	2615V2-01-B31 (0-1)	SPLP East	Solid	3010A	644601
500-212658-9	2615V2-01-B30 (0-3)	SPLP East	Solid	3010A	644601
500-212658-10	2615V2-01-B35 (0-3)	SPLP East	Solid	3010A	644601
500-212658-11	2615V2-01-B32 (0-1)	SPLP East	Solid	3010A	644601
LB 500-644601/1-B	Method Blank	SPLP East	Solid	3010A	644601
LCS 500-644992/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212658-6 MS	2615V2-01-B33 (0-3)	SPLP East	Solid	3010A	644601
500-212658-6 DU	2615V2-01-B33 (0-3)	SPLP East	Solid	3010A	644601

Analysis Batch: 645035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	TCLP	Solid	6010B	644783
500-212658-2	2615V2-01-B11 (0-3)	TCLP	Solid	6010B	644783
500-212658-3	2615V2-01-B10 (0-3)	TCLP	Solid	6010B	644783
500-212658-4	2615V2-01-B28 (0-1)	TCLP	Solid	6010B	644783
500-212658-5	2615V2-01-B29 (0-2)	TCLP	Solid	6010B	644783
500-212658-6	2615V2-01-B33 (0-3)	TCLP	Solid	6010B	644783
500-212658-7	2615V2-01-B34 (0-3)	TCLP	Solid	6010B	644783
500-212658-8	2615V2-01-B31 (0-1)	TCLP	Solid	6010B	644783
500-212658-9	2615V2-01-B30 (0-3)	TCLP	Solid	6010B	644783
500-212658-10	2615V2-01-B35 (0-3)	TCLP	Solid	6010B	644783
500-212658-11	2615V2-01-B32 (0-1)	TCLP	Solid	6010B	644783
LB 500-644598/2-B	Method Blank	TCLP	Solid	6010B	644783
LCS 500-644783/2-A	Lab Control Sample	Total/NA	Solid	6010B	644783
500-212658-1 MS	2615V2-01-B12 (0-2)	TCLP	Solid	6010B	644783
500-212658-1 DU	2615V2-01-B12 (0-2)	TCLP	Solid	6010B	644783

Analysis Batch: 645037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	TCLP	Solid	6020A	644783
500-212658-2	2615V2-01-B11 (0-3)	TCLP	Solid	6020A	644783
500-212658-3	2615V2-01-B10 (0-3)	TCLP	Solid	6020A	644783
500-212658-4	2615V2-01-B28 (0-1)	TCLP	Solid	6020A	644783
500-212658-5	2615V2-01-B29 (0-2)	TCLP	Solid	6020A	644783
500-212658-6	2615V2-01-B33 (0-3)	TCLP	Solid	6020A	644783
500-212658-7	2615V2-01-B34 (0-3)	TCLP	Solid	6020A	644783
500-212658-8	2615V2-01-B31 (0-1)	TCLP	Solid	6020A	644783
500-212658-9	2615V2-01-B30 (0-3)	TCLP	Solid	6020A	644783
500-212658-10	2615V2-01-B35 (0-3)	TCLP	Solid	6020A	644783
500-212658-11	2615V2-01-B32 (0-1)	TCLP	Solid	6020A	644783
LB 500-644598/2-B	Method Blank	TCLP	Solid	6020A	644783
LCS 500-644783/2-A	Lab Control Sample	Total/NA	Solid	6020A	644783
500-212658-1 MS	2615V2-01-B12 (0-2)	TCLP	Solid	6020A	644783
500-212658-1 DU	2615V2-01-B12 (0-2)	TCLP	Solid	6020A	644783

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Metals

Analysis Batch: 645126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	TCLP	Solid	7470A	644808
500-212658-2	2615V2-01-B11 (0-3)	TCLP	Solid	7470A	644808
500-212658-3	2615V2-01-B10 (0-3)	TCLP	Solid	7470A	644808
500-212658-4	2615V2-01-B28 (0-1)	TCLP	Solid	7470A	644808
500-212658-5	2615V2-01-B29 (0-2)	TCLP	Solid	7470A	644808
500-212658-6	2615V2-01-B33 (0-3)	TCLP	Solid	7470A	644808
500-212658-7	2615V2-01-B34 (0-3)	TCLP	Solid	7470A	644808
500-212658-8	2615V2-01-B31 (0-1)	TCLP	Solid	7470A	644808
500-212658-9	2615V2-01-B30 (0-3)	TCLP	Solid	7470A	644808
500-212658-10	2615V2-01-B35 (0-3)	TCLP	Solid	7470A	644808
500-212658-11	2615V2-01-B32 (0-1)	TCLP	Solid	7470A	644808
LB 500-644598/2-C	Method Blank	TCLP	Solid	7470A	644808
MB 500-644808/13-A	Method Blank	Total/NA	Solid	7470A	644808
LCS 500-644808/14-A	Lab Control Sample	Total/NA	Solid	7470A	644808
500-212658-1 MS	2615V2-01-B12 (0-2)	TCLP	Solid	7470A	644808
500-212658-1 DU	2615V2-01-B12 (0-2)	TCLP	Solid	7470A	644808

Prep Batch: 645282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	3050B	
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	3050B	
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	3050B	
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	3050B	
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	3050B	
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	3050B	
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	3050B	
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	3050B	
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	3050B	
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	3050B	
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	3050B	
MB 500-645282/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-645282/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-212658-1 MS	2615V2-01-B12 (0-2)	Total/NA	Solid	3050B	
500-212658-1 MSD	2615V2-01-B12 (0-2)	Total/NA	Solid	3050B	
500-212658-1 DU	2615V2-01-B12 (0-2)	Total/NA	Solid	3050B	

Prep Batch: 645412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	7471B	
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	7471B	
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	7471B	
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	7471B	
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	7471B	
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	7471B	
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	7471B	
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	7471B	
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	7471B	
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	7471B	
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	7471B	
MB 500-645412/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-645412/13-A	Lab Control Sample	Total/NA	Solid	7471B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Metals

Analysis Batch: 645432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	SPLP East	Solid	6010B	644992
500-212658-2	2615V2-01-B11 (0-3)	SPLP East	Solid	6010B	644992
500-212658-3	2615V2-01-B10 (0-3)	SPLP East	Solid	6010B	644992
500-212658-4	2615V2-01-B28 (0-1)	SPLP East	Solid	6010B	644992
500-212658-5	2615V2-01-B29 (0-2)	SPLP East	Solid	6010B	644992
500-212658-6	2615V2-01-B33 (0-3)	SPLP East	Solid	6010B	644992
500-212658-7	2615V2-01-B34 (0-3)	SPLP East	Solid	6010B	644992
500-212658-8	2615V2-01-B31 (0-1)	SPLP East	Solid	6010B	644992
500-212658-9	2615V2-01-B30 (0-3)	SPLP East	Solid	6010B	644992
500-212658-10	2615V2-01-B35 (0-3)	SPLP East	Solid	6010B	644992
500-212658-11	2615V2-01-B32 (0-1)	SPLP East	Solid	6010B	644992
LB 500-644601/1-B	Method Blank	SPLP East	Solid	6010B	644992
LCS 500-644992/2-A	Lab Control Sample	Total/NA	Solid	6010B	644992
500-212658-6 MS	2615V2-01-B33 (0-3)	SPLP East	Solid	6010B	644992
500-212658-6 DU	2615V2-01-B33 (0-3)	SPLP East	Solid	6010B	644992

Analysis Batch: 645625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	6010B	645282
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	6010B	645282
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	6010B	645282
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	6010B	645282
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	6010B	645282
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	6010B	645282
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	6010B	645282
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	6010B	645282
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	6010B	645282
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	6010B	645282
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	6010B	645282
MB 500-645282/1-A	Method Blank	Total/NA	Solid	6010B	645282
LCS 500-645282/2-A	Lab Control Sample	Total/NA	Solid	6010B	645282
500-212658-1 MS	2615V2-01-B12 (0-2)	Total/NA	Solid	6010B	645282
500-212658-1 MSD	2615V2-01-B12 (0-2)	Total/NA	Solid	6010B	645282
500-212658-1 DU	2615V2-01-B12 (0-2)	Total/NA	Solid	6010B	645282

Analysis Batch: 645698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	7471B	645412
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	7471B	645412
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	7471B	645412
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	7471B	645412
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	7471B	645412
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	7471B	645412
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	7471B	645412
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	7471B	645412
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	7471B	645412
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	7471B	645412
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	7471B	645412
MB 500-645412/12-A	Method Blank	Total/NA	Solid	7471B	645412
LCS 500-645412/13-A	Lab Control Sample	Total/NA	Solid	7471B	645412

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Metals

Analysis Batch: 645871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	6010B	645282
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	6010B	645282
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	6010B	645282
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	6010B	645282
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	6010B	645282
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	6010B	645282
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	6010B	645282
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	6010B	645282
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	6010B	645282
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	6010B	645282
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	6010B	645282
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	6010B	645282
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	6010B	645282
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	6010B	645282
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	6010B	645282
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	6010B	645282
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	6010B	645282
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	6010B	645282
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	6010B	645282
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	6010B	645282
MB 500-645282/1-A	Method Blank	Total/NA	Solid	6010B	645282
LCS 500-645282/2-A	Lab Control Sample	Total/NA	Solid	6010B	645282
MRL 500-645871/18	Lab Control Sample	Total/NA	Solid	6010B	
500-212658-1 MS	2615V2-01-B12 (0-2)	Total/NA	Solid	6010B	645282
500-212658-1 MSD	2615V2-01-B12 (0-2)	Total/NA	Solid	6010B	645282
500-212658-1 DU	2615V2-01-B12 (0-2)	Total/NA	Solid	6010B	645282

Analysis Batch: 645878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	6010B	645282
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	6010B	645282
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	6010B	645282
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	6010B	645282

General Chemistry

Analysis Batch: 644021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	Moisture	
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	Moisture	
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	Moisture	
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	Moisture	
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	Moisture	
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	Moisture	
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	Moisture	
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	Moisture	
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	Moisture	
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	Moisture	
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	Moisture	

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

General Chemistry

Analysis Batch: 644304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-1	2615V2-01-B12 (0-2)	Total/NA	Solid	9045D	
500-212658-2	2615V2-01-B11 (0-3)	Total/NA	Solid	9045D	
500-212658-3	2615V2-01-B10 (0-3)	Total/NA	Solid	9045D	
500-212658-4	2615V2-01-B28 (0-1)	Total/NA	Solid	9045D	
500-212658-7	2615V2-01-B34 (0-3)	Total/NA	Solid	9045D	
LCS 500-644304/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644304/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 644313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-5	2615V2-01-B29 (0-2)	Total/NA	Solid	9045D	
500-212658-6	2615V2-01-B33 (0-3)	Total/NA	Solid	9045D	
500-212658-8	2615V2-01-B31 (0-1)	Total/NA	Solid	9045D	
500-212658-11	2615V2-01-B32 (0-1)	Total/NA	Solid	9045D	
LCS 500-644313/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644313/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 644557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212658-9	2615V2-01-B30 (0-3)	Total/NA	Solid	9045D	
500-212658-10	2615V2-01-B35 (0-3)	Total/NA	Solid	9045D	
LCS 500-644557/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644557/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-212658-1	2615V2-01-B12 (0-2)	110	104	102	97
500-212658-2	2615V2-01-B11 (0-3)	108	104	101	93
500-212658-3	2615V2-01-B10 (0-3)	112	100	100	99
500-212658-4	2615V2-01-B28 (0-1)	124	101	98	100
500-212658-5	2615V2-01-B29 (0-2)	123	87	96	105
500-212658-6	2615V2-01-B33 (0-3)	125	98	102	101
500-212658-7	2615V2-01-B34 (0-3)	119	97	103	100
500-212658-8	2615V2-01-B31 (0-1)	112	100	98	97
500-212658-9	2615V2-01-B30 (0-3)	120	92	101	103
500-212658-10	2615V2-01-B35 (0-3)	172 *3 S1+	102	105	114
500-212658-11	2615V2-01-B32 (0-1)	154 *3 S1+	108	103	104
LCS 500-645019/4	Lab Control Sample	103	106	98	92
MB 500-645019/6	Method Blank	116	104	98	94

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-212658-1	2615V2-01-B12 (0-2)	86	80	68	81	74	96
500-212658-2	2615V2-01-B11 (0-3)	87	80	62	72	59	94
500-212658-3	2615V2-01-B10 (0-3)	76	67	51	65	36	92
500-212658-4	2615V2-01-B28 (0-1)	80	65	60	77	58	95
500-212658-5	2615V2-01-B29 (0-2)	85	79	55	69	29 S1-	97
500-212658-6	2615V2-01-B33 (0-3)	81	74	67	79	26 S1-	92
500-212658-7	2615V2-01-B34 (0-3)	112	113	84	85	60	122
500-212658-8	2615V2-01-B31 (0-1)	99	100	70	82	26 S1-	113
500-212658-9	2615V2-01-B30 (0-3)	118	116	70	80	43	133
500-212658-10	2615V2-01-B35 (0-3)	92	24 S1-	75	72	50	105
500-212658-11	2615V2-01-B32 (0-1)	107	103	69	86	51	123
500-212658-11 MS	2615V2-01-B32 (0-1)	98	97	72	84	69	101
500-212658-11 MSD	2615V2-01-B32 (0-1)	92	91	67	78	65	99
LCS 500-644613/2-A	Lab Control Sample	111	116	92	106	82	99
MB 500-644613/1-A	Method Blank	107	89	91	110	71	122

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: MB 500-645019/6
Matrix: Solid
Analysis Batch: 645019

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			03/01/22 11:43	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			03/01/22 11:43	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			03/01/22 11:43	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			03/01/22 11:43	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			03/01/22 11:43	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			03/01/22 11:43	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			03/01/22 11:43	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			03/01/22 11:43	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			03/01/22 11:43	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			03/01/22 11:43	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			03/01/22 11:43	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			03/01/22 11:43	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			03/01/22 11:43	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			03/01/22 11:43	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			03/01/22 11:43	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			03/01/22 11:43	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			03/01/22 11:43	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			03/01/22 11:43	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			03/01/22 11:43	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			03/01/22 11:43	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			03/01/22 11:43	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			03/01/22 11:43	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			03/01/22 11:43	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			03/01/22 11:43	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			03/01/22 11:43	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			03/01/22 11:43	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			03/01/22 11:43	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			03/01/22 11:43	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			03/01/22 11:43	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			03/01/22 11:43	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			03/01/22 11:43	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			03/01/22 11:43	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			03/01/22 11:43	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			03/01/22 11:43	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			03/01/22 11:43	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			03/01/22 11:43	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			03/01/22 11:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		75 - 131		03/01/22 11:43	1
Dibromofluoromethane	104		75 - 126		03/01/22 11:43	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/01/22 11:43	1
Toluene-d8 (Surr)	94		75 - 124		03/01/22 11:43	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: LCS 500-645019/4
Matrix: Solid
Analysis Batch: 645019

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0484		mg/Kg		97	40 - 150
Benzene	0.0500	0.0474		mg/Kg		95	70 - 125
Bromodichloromethane	0.0500	0.0496		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0574		mg/Kg		115	68 - 136
Bromomethane	0.0500	0.0405		mg/Kg		81	70 - 130
2-Butanone (MEK)	0.0500	0.0474		mg/Kg		95	47 - 138
Carbon disulfide	0.0500	0.0482		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0531		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0515		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0429		mg/Kg		86	75 - 125
Chloroform	0.0500	0.0536		mg/Kg		107	57 - 135
Chloromethane	0.0500	0.0429		mg/Kg		86	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0523		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0453		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0525		mg/Kg		105	69 - 125
1,1-Dichloroethane	0.0500	0.0515		mg/Kg		103	70 - 125
1,2-Dichloroethane	0.0500	0.0521		mg/Kg		104	70 - 130
1,1-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0507		mg/Kg		101	61 - 136
2-Hexanone	0.0500	0.0408		mg/Kg		82	48 - 146
Methylene Chloride	0.0500	0.0499		mg/Kg		100	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0397		mg/Kg		79	50 - 148
Methyl tert-butyl ether	0.0500	0.0498		mg/Kg		100	50 - 140
Styrene	0.0500	0.0497		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0540		mg/Kg		108	70 - 122
Tetrachloroethene	0.0500	0.0510		mg/Kg		102	70 - 124
Toluene	0.0500	0.0463		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0515		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0486		mg/Kg		97	70 - 125
1,1,1-Trichloroethane	0.0500	0.0550		mg/Kg		110	70 - 128
1,1,2-Trichloroethane	0.0500	0.0482		mg/Kg		96	70 - 125
Trichloroethene	0.0500	0.0499		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0405		mg/Kg		81	40 - 153
Vinyl chloride	0.0500	0.0461		mg/Kg		92	70 - 125
Xylenes, Total	0.100	0.0989		mg/Kg		99	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		75 - 131
Dibromofluoromethane	106		75 - 126
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: MB 500-644613/1-A
Matrix: Solid
Analysis Batch: 644843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644613

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/25/22 19:12	02/28/22 13:38	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: MB 500-644613/1-A
Matrix: Solid
Analysis Batch: 644843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644613

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/25/22 19:12	02/28/22 13:38	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/25/22 19:12	02/28/22 13:38	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	107		31 - 166	02/25/22 19:12	02/28/22 13:38	1
Phenol-d5	89		30 - 153	02/25/22 19:12	02/28/22 13:38	1
Nitrobenzene-d5 (Surr)	91		37 - 147	02/25/22 19:12	02/28/22 13:38	1
2-Fluorobiphenyl (Surr)	110		43 - 145	02/25/22 19:12	02/28/22 13:38	1
2,4,6-Tribromophenol	71		31 - 143	02/25/22 19:12	02/28/22 13:38	1
Terphenyl-d14 (Surr)	122		42 - 157	02/25/22 19:12	02/28/22 13:38	1

Lab Sample ID: LCS 500-644613/2-A
Matrix: Solid
Analysis Batch: 644843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.46		mg/Kg		110	56 - 122
Bis(2-chloroethyl)ether	1.33	1.15		mg/Kg		87	55 - 111
1,3-Dichlorobenzene	1.33	1.20		mg/Kg		90	65 - 124
1,4-Dichlorobenzene	1.33	1.19		mg/Kg		89	61 - 110
1,2-Dichlorobenzene	1.33	1.21		mg/Kg		91	62 - 110
2-Methylphenol	1.33	1.44		mg/Kg		108	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.28		mg/Kg		96	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
Hexachloroethane	1.33	1.15		mg/Kg		86	60 - 114
2-Chlorophenol	1.33	1.35		mg/Kg		101	64 - 110
Nitrobenzene	1.33	1.19		mg/Kg		89	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.26		mg/Kg		95	60 - 112
1,2,4-Trichlorobenzene	1.33	1.30		mg/Kg		98	66 - 117
Isophorone	1.33	1.19		mg/Kg		89	55 - 110
2,4-Dimethylphenol	1.33	1.31		mg/Kg		98	60 - 110
Hexachlorobutadiene	1.33	1.36		mg/Kg		102	56 - 120
Naphthalene	1.33	1.24		mg/Kg		93	63 - 110
2,4-Dichlorophenol	1.33	1.38		mg/Kg		103	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: LCS 500-644613/2-A
Matrix: Solid
Analysis Batch: 644843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	0.999		mg/Kg		75	30 - 150
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120
2,4,5-Trichlorophenol	1.33	1.18		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	0.291	J	mg/Kg		22	10 - 133
2-Methylnaphthalene	1.33	1.33		mg/Kg		99	69 - 112
2-Nitroaniline	1.33	1.18		mg/Kg		89	57 - 124
2-Chloronaphthalene	1.33	1.26		mg/Kg		95	69 - 114
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		93	65 - 122
2,6-Dinitrotoluene	1.33	1.31		mg/Kg		98	70 - 123
2-Nitrophenol	1.33	1.32		mg/Kg		99	60 - 120
3-Nitroaniline	1.33	0.948		mg/Kg		71	40 - 122
Dimethyl phthalate	1.33	1.21		mg/Kg		91	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		12	10 - 100
Acenaphthylene	1.33	1.30		mg/Kg		97	68 - 120
2,4-Dinitrotoluene	1.33	1.32		mg/Kg		99	69 - 124
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124
Dibenzofuran	1.33	1.31		mg/Kg		99	66 - 115
4-Nitrophenol	2.67	2.00		mg/Kg		75	30 - 122
Fluorene	1.33	1.28		mg/Kg		96	62 - 120
4-Nitroaniline	1.33	0.871		mg/Kg		65	60 - 160
4-Bromophenyl phenyl ether	1.33	1.40		mg/Kg		105	68 - 118
Hexachlorobenzene	1.33	1.47		mg/Kg		110	63 - 124
Diethyl phthalate	1.33	1.28		mg/Kg		96	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.37		mg/Kg		102	62 - 119
Pentachlorophenol	2.67	0.562	J	mg/Kg		21	13 - 112
N-Nitrosodiphenylamine	1.33	1.24		mg/Kg		93	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.425	J	mg/Kg		16	10 - 110
Phenanthrene	1.33	1.28		mg/Kg		96	62 - 120
Anthracene	1.33	1.28		mg/Kg		96	70 - 114
Carbazole	1.33	1.29		mg/Kg		97	65 - 142
Di-n-butyl phthalate	1.33	1.28		mg/Kg		96	65 - 120
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Pyrene	1.33	1.36		mg/Kg		102	61 - 128
Butyl benzyl phthalate	1.33	1.12		mg/Kg		84	71 - 129
Benzo[a]anthracene	1.33	1.19		mg/Kg		89	67 - 122
Chrysene	1.33	1.24		mg/Kg		93	63 - 120
3,3'-Dichlorobenzidine	1.33	0.905		mg/Kg		68	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.26		mg/Kg		94	72 - 131
Di-n-octyl phthalate	1.33	1.22		mg/Kg		92	68 - 134
Benzo[b]fluoranthene	1.33	1.30		mg/Kg		98	69 - 129
Benzo[k]fluoranthene	1.33	1.34		mg/Kg		100	68 - 127
Benzo[a]pyrene	1.33	1.52		mg/Kg		114	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.28		mg/Kg		96	68 - 130
Dibenz(a,h)anthracene	1.33	1.32		mg/Kg		99	64 - 131
Benzo[g,h,i]perylene	1.33	1.20		mg/Kg		90	72 - 131
3 & 4 Methylphenol	1.33	1.41		mg/Kg		106	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: LCS 500-644613/2-A
Matrix: Solid
Analysis Batch: 644843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644613

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	111		31 - 166
Phenol-d5	116		30 - 153
Nitrobenzene-d5 (Surr)	92		37 - 147
2-Fluorobiphenyl (Surr)	106		43 - 145
2,4,6-Tribromophenol	82		31 - 143
Terphenyl-d14 (Surr)	99		42 - 157

Lab Sample ID: 500-212658-11 MS
Matrix: Solid
Analysis Batch: 645551

Client Sample ID: 2615V2-01-B32 (0-1)
Prep Type: Total/NA
Prep Batch: 644613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Phenol	<0.18		1.45	1.24		mg/Kg	☼	85	56 - 122
Bis(2-chloroethyl)ether	<0.18		1.45	1.29		mg/Kg	☼	89	55 - 111
1,3-Dichlorobenzene	<0.18		1.45	1.01		mg/Kg	☼	70	60 - 110
1,4-Dichlorobenzene	<0.18		1.45	1.00		mg/Kg	☼	69	61 - 110
1,2-Dichlorobenzene	<0.18		1.45	1.12		mg/Kg	☼	78	62 - 110
2-Methylphenol	<0.18		1.45	1.51		mg/Kg	☼	104	60 - 120
2,2'-oxybis[1-chloropropane]	<0.18		1.45	1.24		mg/Kg	☼	85	40 - 124
N-Nitrosodi-n-propylamine	<0.071		1.45	1.14		mg/Kg	☼	79	56 - 118
Hexachloroethane	<0.18	F1	1.45	0.828	F1	mg/Kg	☼	57	60 - 114
2-Chlorophenol	<0.18		1.45	1.29		mg/Kg	☼	89	64 - 110
Nitrobenzene	<0.035		1.45	1.01		mg/Kg	☼	70	60 - 116
Bis(2-chloroethoxy)methane	<0.18		1.45	1.11		mg/Kg	☼	76	60 - 112
1,2,4-Trichlorobenzene	<0.18		1.45	1.09		mg/Kg	☼	75	66 - 117
Isophorone	<0.18		1.45	1.04		mg/Kg	☼	72	55 - 110
2,4-Dimethylphenol	<0.35	F1	1.45	0.594	F1	mg/Kg	☼	41	60 - 110
Hexachlorobutadiene	<0.18		1.45	1.09		mg/Kg	☼	75	56 - 120
Naphthalene	<0.035		1.45	1.11		mg/Kg	☼	77	63 - 110
2,4-Dichlorophenol	<0.35		1.45	1.17		mg/Kg	☼	81	58 - 120
4-Chloroaniline	<0.71		1.45	0.523	J	mg/Kg	☼	36	30 - 150
2,4,6-Trichlorophenol	<0.35		1.45	1.05		mg/Kg	☼	73	57 - 120
2,4,5-Trichlorophenol	<0.35		1.45	1.22		mg/Kg	☼	84	50 - 120
Hexachlorocyclopentadiene	<0.71	F1	1.45	<0.73	F1	mg/Kg	☼	0	10 - 133
2-Methylnaphthalene	<0.071		1.45	1.18		mg/Kg	☼	81	69 - 112
2-Nitroaniline	<0.18		1.45	1.16		mg/Kg	☼	80	57 - 124
2-Chloronaphthalene	<0.18		1.45	1.18		mg/Kg	☼	82	69 - 114
4-Chloro-3-methylphenol	<0.35		1.45	1.10		mg/Kg	☼	76	65 - 122
2,6-Dinitrotoluene	<0.18		1.45	1.23		mg/Kg	☼	85	70 - 123
2-Nitrophenol	<0.35		1.45	1.13		mg/Kg	☼	78	60 - 120
3-Nitroaniline	<0.35		1.45	0.826		mg/Kg	☼	57	40 - 122
Dimethyl phthalate	<0.18		1.45	1.14		mg/Kg	☼	79	69 - 116
2,4-Dinitrophenol	<0.71	F1	2.90	<0.73	F1	mg/Kg	☼	0	10 - 100
Acenaphthylene	<0.035		1.45	1.23		mg/Kg	☼	85	68 - 120
2,4-Dinitrotoluene	<0.18		1.45	1.28		mg/Kg	☼	89	69 - 124
Acenaphthene	<0.035		1.45	1.20		mg/Kg	☼	82	65 - 124
Dibenzofuran	<0.18		1.45	1.20		mg/Kg	☼	83	66 - 115
4-Nitrophenol	<0.71		2.90	1.64		mg/Kg	☼	57	30 - 122

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: 500-212658-11 MS

Matrix: Solid

Analysis Batch: 645551

Client Sample ID: 2615V2-01-B32 (0-1)

Prep Type: Total/NA

Prep Batch: 644613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	<0.035		1.45	1.19		mg/Kg	☼	82	62 - 120
4-Nitroaniline	<0.35		1.45	0.972		mg/Kg	☼	67	60 - 160
4-Bromophenyl phenyl ether	<0.18		1.45	1.25		mg/Kg	☼	86	68 - 118
Hexachlorobenzene	<0.071		1.45	1.30		mg/Kg	☼	89	63 - 124
Diethyl phthalate	<0.18		1.45	1.16		mg/Kg	☼	80	58 - 120
4-Chlorophenyl phenyl ether	<0.18		1.45	1.18		mg/Kg	☼	81	62 - 119
Pentachlorophenol	<0.71	F1	2.90	<0.73	F1	mg/Kg	☼	0	13 - 112
N-Nitrosodiphenylamine	<0.18		1.45	1.31		mg/Kg	☼	90	65 - 112
4,6-Dinitro-2-methylphenol	<0.71		2.90	0.804		mg/Kg	☼	28	10 - 110
Phenanthrene	0.029	J	1.45	1.27		mg/Kg	☼	85	62 - 120
Anthracene	0.0060	J	1.45	1.29		mg/Kg	☼	88	70 - 114
Carbazole	<0.18		1.45	1.46		mg/Kg	☼	101	65 - 142
Di-n-butyl phthalate	<0.18		1.45	1.31		mg/Kg	☼	90	65 - 120
Fluoranthene	0.053		1.45	1.37		mg/Kg	☼	90	62 - 120
Pyrene	0.063		1.45	1.43		mg/Kg	☼	94	61 - 128
Butyl benzyl phthalate	<0.18		1.45	1.44		mg/Kg	☼	99	71 - 129
Benzo[a]anthracene	0.026	J	1.45	1.23		mg/Kg	☼	83	67 - 122
Chrysene	0.036		1.45	1.36		mg/Kg	☼	91	63 - 120
3,3'-Dichlorobenzidine	<0.18		1.45	0.784		mg/Kg	☼	54	35 - 128
Bis(2-ethylhexyl) phthalate	<0.18		1.45	1.62		mg/Kg	☼	112	72 - 131
Di-n-octyl phthalate	<0.18		1.45	1.31		mg/Kg	☼	90	68 - 134
Benzo[b]fluoranthene	0.045		1.45	1.60		mg/Kg	☼	107	69 - 129
Benzo[k]fluoranthene	<0.035		1.45	1.79		mg/Kg	☼	123	68 - 127
Benzo[a]pyrene	<0.035		1.45	1.47		mg/Kg	☼	101	65 - 133
Indeno[1,2,3-cd]pyrene	0.019	J F1	1.45	0.823	F1	mg/Kg	☼	55	68 - 130
Dibenz(a,h)anthracene	<0.035	F1	1.45	0.795	F1	mg/Kg	☼	55	64 - 131
Benzo[g,h,i]perylene	0.014	J F1	1.45	0.676	F1	mg/Kg	☼	46	72 - 131
3 & 4 Methylphenol	<0.18		1.45	1.32		mg/Kg	☼	91	57 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorophenol	98		31 - 166
Phenol-d5	97		30 - 153
Nitrobenzene-d5 (Surr)	72		37 - 147
2-Fluorobiphenyl (Surr)	84		43 - 145
2,4,6-Tribromophenol	69		31 - 143
Terphenyl-d14 (Surr)	101		42 - 157

Lab Sample ID: 500-212658-11 MSD

Matrix: Solid

Analysis Batch: 645551

Client Sample ID: 2615V2-01-B32 (0-1)

Prep Type: Total/NA

Prep Batch: 644613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	<0.18		1.45	1.17		mg/Kg	☼	81	56 - 122	5	30
Bis(2-chloroethyl)ether	<0.18		1.45	1.23		mg/Kg	☼	85	55 - 111	5	30
1,3-Dichlorobenzene	<0.18		1.45	0.917		mg/Kg	☼	63	60 - 110	10	30
1,4-Dichlorobenzene	<0.18		1.45	0.948		mg/Kg	☼	66	61 - 110	6	30
1,2-Dichlorobenzene	<0.18		1.45	1.03		mg/Kg	☼	71	62 - 110	9	30
2-Methylphenol	<0.18		1.45	1.33		mg/Kg	☼	92	60 - 120	13	30

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: 500-212658-11 MSD

Matrix: Solid

Analysis Batch: 645551

Client Sample ID: 2615V2-01-B32 (0-1)

Prep Type: Total/NA

Prep Batch: 644613

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.18		1.45	1.23		mg/Kg	☼	85	40 - 124	0	30
N-Nitrosodi-n-propylamine	<0.071		1.45	1.10		mg/Kg	☼	76	56 - 118	4	30
Hexachloroethane	<0.18	F1	1.45	0.795	F1	mg/Kg	☼	55	60 - 114	4	30
2-Chlorophenol	<0.18		1.45	1.21		mg/Kg	☼	84	64 - 110	6	30
Nitrobenzene	<0.035		1.45	0.948		mg/Kg	☼	66	60 - 116	7	30
Bis(2-chloroethoxy)methane	<0.18		1.45	0.986		mg/Kg	☼	68	60 - 112	12	30
1,2,4-Trichlorobenzene	<0.18		1.45	0.978		mg/Kg	☼	68	66 - 117	11	30
Isophorone	<0.18		1.45	0.980		mg/Kg	☼	68	55 - 110	6	30
2,4-Dimethylphenol	<0.35	F1	1.45	0.607	F1	mg/Kg	☼	42	60 - 110	2	30
Hexachlorobutadiene	<0.18		1.45	0.971		mg/Kg	☼	67	56 - 120	12	30
Naphthalene	<0.035		1.45	1.02		mg/Kg	☼	70	63 - 110	9	30
2,4-Dichlorophenol	<0.35		1.45	1.04		mg/Kg	☼	72	58 - 120	12	30
4-Chloroaniline	<0.71		1.45	0.491	J	mg/Kg	☼	34	30 - 150	6	30
2,4,6-Trichlorophenol	<0.35		1.45	0.930		mg/Kg	☼	64	57 - 120	12	30
2,4,5-Trichlorophenol	<0.35		1.45	1.08		mg/Kg	☼	75	50 - 120	12	30
Hexachlorocyclopentadiene	<0.71	F1	1.45	<0.73	F1	mg/Kg	☼	0	10 - 133	NC	30
2-Methylnaphthalene	<0.071		1.45	1.07		mg/Kg	☼	74	69 - 112	9	30
2-Nitroaniline	<0.18		1.45	1.09		mg/Kg	☼	75	57 - 124	7	30
2-Chloronaphthalene	<0.18		1.45	1.04		mg/Kg	☼	72	69 - 114	13	30
4-Chloro-3-methylphenol	<0.35		1.45	1.01		mg/Kg	☼	70	65 - 122	9	30
2,6-Dinitrotoluene	<0.18		1.45	1.10		mg/Kg	☼	76	70 - 123	11	30
2-Nitrophenol	<0.35		1.45	1.06		mg/Kg	☼	73	60 - 120	6	30
3-Nitroaniline	<0.35		1.45	0.740		mg/Kg	☼	51	40 - 122	11	30
Dimethyl phthalate	<0.18		1.45	1.03		mg/Kg	☼	71	69 - 116	10	30
2,4-Dinitrophenol	<0.71	F1	2.89	<0.73	F1	mg/Kg	☼	0	10 - 100	NC	30
Acenaphthylene	<0.035		1.45	1.11		mg/Kg	☼	77	68 - 120	10	30
2,4-Dinitrotoluene	<0.18		1.45	1.15		mg/Kg	☼	80	69 - 124	11	30
Acenaphthene	<0.035		1.45	1.06		mg/Kg	☼	73	65 - 124	12	30
Dibenzofuran	<0.18		1.45	1.07		mg/Kg	☼	74	66 - 115	11	30
4-Nitrophenol	<0.71		2.89	1.48		mg/Kg	☼	51	30 - 122	10	30
Fluorene	<0.035		1.45	1.06		mg/Kg	☼	73	62 - 120	12	30
4-Nitroaniline	<0.35		1.45	0.919		mg/Kg	☼	64	60 - 160	6	30
4-Bromophenyl phenyl ether	<0.18		1.45	1.06		mg/Kg	☼	73	68 - 118	17	30
Hexachlorobenzene	<0.071		1.45	1.14		mg/Kg	☼	79	63 - 124	13	30
Diethyl phthalate	<0.18		1.45	1.05		mg/Kg	☼	73	58 - 120	10	30
4-Chlorophenyl phenyl ether	<0.18		1.45	1.08		mg/Kg	☼	75	62 - 119	9	30
Pentachlorophenol	<0.71	F1	2.89	<0.73	F1	mg/Kg	☼	0	13 - 112	NC	30
N-Nitrosodiphenylamine	<0.18		1.45	1.11		mg/Kg	☼	77	65 - 112	16	30
4,6-Dinitro-2-methylphenol	<0.71		2.89	0.675	J	mg/Kg	☼	23	10 - 110	17	30
Phenanthrene	0.029	J	1.45	1.12		mg/Kg	☼	75	62 - 120	13	30
Anthracene	0.0060	J	1.45	1.17		mg/Kg	☼	81	70 - 114	10	30
Carbazole	<0.18		1.45	1.37		mg/Kg	☼	95	65 - 142	6	30
Di-n-butyl phthalate	<0.18		1.45	1.18		mg/Kg	☼	82	65 - 120	10	30
Fluoranthene	0.053		1.45	1.13		mg/Kg	☼	74	62 - 120	19	30
Pyrene	0.063		1.45	1.38		mg/Kg	☼	91	61 - 128	3	30
Butyl benzyl phthalate	<0.18		1.45	1.39		mg/Kg	☼	96	71 - 129	3	30
Benzo[a]anthracene	0.026	J	1.45	1.13		mg/Kg	☼	76	67 - 122	8	30
Chrysene	0.036		1.45	1.20		mg/Kg	☼	81	63 - 120	12	30
3,3'-Dichlorobenzidine	<0.18		1.45	0.797		mg/Kg	☼	55	35 - 128	2	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: 500-212658-11 MSD
Matrix: Solid
Analysis Batch: 645551

Client Sample ID: 2615V2-01-B32 (0-1)
Prep Type: Total/NA
Prep Batch: 644613

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Bis(2-ethylhexyl) phthalate	<0.18		1.45	1.55		mg/Kg	☼	107	72 - 131	5	30
Di-n-octyl phthalate	<0.18		1.45	1.05		mg/Kg	☼	72	68 - 134	22	30
Benzo[b]fluoranthene	0.045		1.45	1.41		mg/Kg	☼	95	69 - 129	13	30
Benzo[k]fluoranthene	<0.035		1.45	1.53		mg/Kg	☼	106	68 - 127	16	30
Benzo[a]pyrene	<0.035		1.45	1.32		mg/Kg	☼	91	65 - 133	11	30
Indeno[1,2,3-cd]pyrene	0.019	J F1	1.45	0.903	F1	mg/Kg	☼	61	68 - 130	9	30
Dibenz(a,h)anthracene	<0.035	F1	1.45	0.873	F1	mg/Kg	☼	60	64 - 131	9	30
Benzo[g,h,i]perylene	0.014	J F1	1.45	0.711	F1	mg/Kg	☼	48	72 - 131	5	30
3 & 4 Methylphenol	<0.18		1.45	1.22		mg/Kg	☼	84	57 - 120	8	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorophenol	92		31 - 166								
Phenol-d5	91		30 - 153								
Nitrobenzene-d5 (Surr)	67		37 - 147								
2-Fluorobiphenyl (Surr)	78		43 - 145								
2,4,6-Tribromophenol	65		31 - 143								
Terphenyl-d14 (Surr)	99		42 - 157								

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-644783/2-A
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Beryllium	0.0500	0.0464		mg/L		93	80 - 120	
Boron	1.00	0.908		mg/L		91	80 - 120	
Cadmium	0.0500	0.0517		mg/L		103	80 - 120	
Chromium	0.200	0.204		mg/L		102	80 - 120	
Cobalt	0.500	0.535		mg/L		107	80 - 120	
Iron	1.00	0.985		mg/L		99	80 - 120	
Lead	0.100	0.0992		mg/L		99	80 - 120	
Manganese	0.500	0.483		mg/L		97	80 - 120	
Nickel	0.500	0.525		mg/L		105	80 - 120	
Selenium	0.100	0.105		mg/L		105	80 - 120	
Silver	0.0500	0.0541		mg/L		108	80 - 120	
Zinc	0.500	0.580		mg/L		116	80 - 120	

Lab Sample ID: LCS 500-644992/2-A
Matrix: Solid
Analysis Batch: 645432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Manganese	0.500	0.459		mg/L		92	80 - 120	

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: MB 500-645282/1-A
Matrix: Solid
Analysis Batch: 645625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645282

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Arsenic	<1.0		1.0	0.34	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Barium	<1.0		1.0	0.11	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Beryllium	<0.40		0.40	0.093	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Boron	<5.0		5.0	0.47	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Cadmium	0.0489	J	0.20	0.036	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Calcium	<20		20	3.4	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Cobalt	<0.50		0.50	0.13	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Copper	<1.0		1.0	0.28	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Iron	15.6	J	20	10	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Lead	<0.50		0.50	0.23	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Magnesium	<10		10	5.0	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Manganese	<1.0		1.0	0.15	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Nickel	0.561	J	1.0	0.29	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Potassium	<50		50	18	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Selenium	<1.0		1.0	0.59	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Silver	<0.50		0.50	0.13	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Sodium	<100		100	15	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Thallium	<1.0		1.0	0.50	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Vanadium	<0.50		0.50	0.12	mg/Kg		03/03/22 09:00	03/03/22 15:52	1
Zinc	<2.0		2.0	0.88	mg/Kg		03/03/22 09:00	03/03/22 15:52	1

Lab Sample ID: MB 500-645282/1-A
Matrix: Solid
Analysis Batch: 645871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645282

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	1.21	J	1.3	0.50	mg/Kg		03/03/22 09:00	03/04/22 10:54	1

Lab Sample ID: LCS 500-645282/2-A
Matrix: Solid
Analysis Batch: 645625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	50.0	48.7		mg/Kg		97	80 - 120	
Arsenic	10.0	8.51		mg/Kg		85	80 - 120	
Barium	200	200		mg/Kg		100	80 - 120	
Beryllium	5.00	4.73		mg/Kg		95	80 - 120	
Boron	100	86.8		mg/Kg		87	80 - 120	
Cadmium	5.00	4.70		mg/Kg		94	80 - 120	
Calcium	1000	891		mg/Kg		89	80 - 120	
Cobalt	50.0	47.4		mg/Kg		95	80 - 120	
Copper	25.0	25.7		mg/Kg		103	80 - 120	
Iron	100	112		mg/Kg		112	80 - 120	
Lead	10.0	8.66		mg/Kg		87	80 - 120	
Magnesium	1000	917		mg/Kg		92	80 - 120	
Manganese	50.0	47.6		mg/Kg		95	80 - 120	
Nickel	50.0	47.8		mg/Kg		96	80 - 120	
Potassium	1000	1030		mg/Kg		103	80 - 120	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: LCS 500-645282/2-A
Matrix: Solid
Analysis Batch: 645625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	10.0	8.07		mg/Kg		81	80 - 120
Silver	5.00	4.54		mg/Kg		91	80 - 120
Sodium	1000	1030		mg/Kg		103	80 - 120
Thallium	10.0	8.64		mg/Kg		86	80 - 120
Vanadium	50.0	48.9		mg/Kg		98	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-645282/2-A
Matrix: Solid
Analysis Batch: 645871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	20.7		mg/Kg		104	80 - 120

Lab Sample ID: 500-212658-1 MS
Matrix: Solid
Analysis Batch: 645625

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: Total/NA
Prep Batch: 645282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.61	J F1	30.9	7.99	F1	mg/Kg	⊛	24	75 - 125
Arsenic	6.7	F1	6.18	11.2	F1	mg/Kg	⊛	74	75 - 125
Barium	91		124	202		mg/Kg	⊛	90	75 - 125
Beryllium	0.81		3.09	3.54		mg/Kg	⊛	88	75 - 125
Boron	5.9	F1	61.8	48.5	F1	mg/Kg	⊛	69	75 - 125
Cadmium	0.043	J B	3.09	2.54		mg/Kg	⊛	81	75 - 125
Calcium	8200	F2	618	4830	4	mg/Kg	⊛	-541	75 - 125
Cobalt	11		30.9	40.7		mg/Kg	⊛	95	75 - 125
Copper	15		15.4	30.2		mg/Kg	⊛	102	75 - 125
Iron	18000	B	61.8	19000	4	mg/Kg	⊛	1159	75 - 125
Lead	24		6.18	29.5		mg/Kg	⊛	89	75 - 125
Magnesium	6400		618	5060	4	mg/Kg	⊛	-223	75 - 125
Manganese	550		30.9	543	4	mg/Kg	⊛	-39	75 - 125
Nickel	18	B	30.9	49.9		mg/Kg	⊛	103	75 - 125
Potassium	1800	F1	618	3270	F1	mg/Kg	⊛	231	75 - 125
Selenium	0.45	J F1	6.18	4.72	F1	mg/Kg	⊛	69	75 - 125
Silver	0.30	J	3.09	2.83		mg/Kg	⊛	82	75 - 125
Sodium	57	J	618	612		mg/Kg	⊛	90	75 - 125
Thallium	<0.61		6.18	4.74		mg/Kg	⊛	77	75 - 125
Vanadium	27		30.9	57.6		mg/Kg	⊛	100	75 - 125
Zinc	55		30.9	91.9		mg/Kg	⊛	119	75 - 125

Lab Sample ID: 500-212658-1 MS
Matrix: Solid
Analysis Batch: 645871

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: Total/NA
Prep Batch: 645282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	19	B	12.4	32.7		mg/Kg	⊛	113	75 - 125

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: 500-212658-1 MSD

Matrix: Solid

Analysis Batch: 645625

Client Sample ID: 2615V2-01-B12 (0-2)

Prep Type: Total/NA

Prep Batch: 645282

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Antimony	0.61	J F1	30.8	7.33	F1	mg/Kg	⊛	22	75 - 125	9	20
Arsenic	6.7	F1	6.15	11.8		mg/Kg	⊛	83	75 - 125	5	20
Barium	91		123	193		mg/Kg	⊛	83	75 - 125	5	20
Beryllium	0.81		3.08	3.47		mg/Kg	⊛	87	75 - 125	2	20
Boron	5.9	F1	61.5	47.5	F1	mg/Kg	⊛	68	75 - 125	2	20
Cadmium	0.043	J B	3.08	2.49		mg/Kg	⊛	80	75 - 125	2	20
Calcium	8200	F2	615	6590	4 F2	mg/Kg	⊛	-257	75 - 125	31	20
Cobalt	11		30.8	39.9		mg/Kg	⊛	93	75 - 125	2	20
Copper	15		15.4	30.1		mg/Kg	⊛	101	75 - 125	1	20
Iron	18000	B	61.5	19600	4	mg/Kg	⊛	2056	75 - 125	3	20
Lead	24		6.15	28.6		mg/Kg	⊛	76	75 - 125	3	20
Magnesium	6400		615	6090	4	mg/Kg	⊛	-57	75 - 125	18	20
Manganese	550		30.8	503	4	mg/Kg	⊛	-168	75 - 125	8	20
Nickel	18	B	30.8	49.0		mg/Kg	⊛	100	75 - 125	2	20
Potassium	1800	F1	615	3240	F1	mg/Kg	⊛	226	75 - 125	1	20
Selenium	0.45	J F1	6.15	4.65	F1	mg/Kg	⊛	68	75 - 125	1	20
Silver	0.30	J	3.08	2.78		mg/Kg	⊛	80	75 - 125	2	20
Sodium	57	J	615	603		mg/Kg	⊛	89	75 - 125	1	20
Thallium	<0.61		6.15	4.76		mg/Kg	⊛	77	75 - 125	0	20
Vanadium	27		30.8	56.2		mg/Kg	⊛	96	75 - 125	3	20
Zinc	55		30.8	90.2		mg/Kg	⊛	114	75 - 125	2	20

Lab Sample ID: 500-212658-1 MSD

Matrix: Solid

Analysis Batch: 645871

Client Sample ID: 2615V2-01-B12 (0-2)

Prep Type: Total/NA

Prep Batch: 645282

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Chromium	19	B	12.3	31.5		mg/Kg	⊛	104	75 - 125	4	20

Lab Sample ID: 500-212658-1 DU

Matrix: Solid

Analysis Batch: 645625

Client Sample ID: 2615V2-01-B12 (0-2)

Prep Type: Total/NA

Prep Batch: 645282

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.61	J F1	0.593	J	mg/Kg	⊛	3	20
Arsenic	6.7	F1	7.40		mg/Kg	⊛	10	20
Barium	91		99.5		mg/Kg	⊛	9	20
Beryllium	0.81		0.890		mg/Kg	⊛	10	20
Boron	5.9	F1	5.31		mg/Kg	⊛	10	20
Cadmium	0.043	J B	0.0293	J F5	mg/Kg	⊛	39	20
Calcium	8200	F2	3260	F3	mg/Kg	⊛	86	20
Cobalt	11		13.1		mg/Kg	⊛	15	20
Copper	15		14.3		mg/Kg	⊛	1	20
Iron	18000	B	20100		mg/Kg	⊛	9	20
Lead	24		24.8		mg/Kg	⊛	3	20
Magnesium	6400		3610	F3	mg/Kg	⊛	56	20
Manganese	550		682	F3	mg/Kg	⊛	21	20
Nickel	18	B	19.7		mg/Kg	⊛	8	20
Potassium	1800	F1	1950		mg/Kg	⊛	5	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: 500-212658-1 DU
Matrix: Solid
Analysis Batch: 645625

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: Total/NA
Prep Batch: 645282

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Selenium	0.45	J F1	0.461	J	mg/Kg	⊛	3	20
Silver	0.30	J	0.347		mg/Kg	⊛	13	20
Sodium	57	J	55.3	J	mg/Kg	⊛	4	20
Thallium	<0.61		<0.60		mg/Kg	⊛	NC	20
Vanadium	27		29.4		mg/Kg	⊛	10	20
Zinc	55		57.8		mg/Kg	⊛	5	20

Lab Sample ID: 500-212658-1 DU
Matrix: Solid
Analysis Batch: 645871

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: Total/NA
Prep Batch: 645282

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chromium	19	B	19.7		mg/Kg	⊛	5	20

Lab Sample ID: MRL 500-645871/18
Matrix: Solid
Analysis Batch: 645871

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0100	0.00884	J	mg/L		88	70 - 130
Barium	0.0100	0.00893	J	mg/L		89	70 - 130
Beryllium	0.00400	0.00424		mg/L		106	70 - 130
Boron	0.0500	0.0485	J	mg/L		97	70 - 130
Cadmium	0.00200	0.00190	J	mg/L		95	70 - 130
Calcium	0.200	0.196	J	mg/L		98	70 - 130
Chromium	0.0100	0.00905	J	mg/L		90	70 - 130
Cobalt	0.00500	0.00480	J	mg/L		96	70 - 130
Copper	0.0100	0.0103		mg/L		103	70 - 130
Iron	0.200	0.223		mg/L		112	70 - 130
Lead	0.00500	0.00376	J	mg/L		75	70 - 130
Magnesium	0.100	0.0989	J	mg/L		99	70 - 130
Manganese	0.0100	0.00929	J	mg/L		93	70 - 130
Nickel	0.0100	0.0102		mg/L		102	70 - 130
Potassium	0.500	0.475	J	mg/L		95	70 - 130
Selenium	0.0100	0.0109		mg/L		109	70 - 130
Silver	0.00500	0.00580		mg/L		116	70 - 130
Sodium	1.00	0.976	J	mg/L		98	70 - 130
Thallium	0.0100	0.0113		mg/L		113	70 - 130
Vanadium	0.00500	0.00492	J	mg/L		98	70 - 130
Zinc	0.0200	0.0204		mg/L		102	70 - 130

Lab Sample ID: LB 500-644598/2-B
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644783

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/28/22 08:56	02/28/22 23:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	02/28/22 23:48	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: LB 500-644598/2-B
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644783

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.50		0.50	0.050	mg/L		02/28/22 08:56	02/28/22 23:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	02/28/22 23:48	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	02/28/22 23:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	02/28/22 23:48	1
Manganese	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	02/28/22 23:48	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Zinc	<0.50		0.50	0.020	mg/L		02/28/22 08:56	02/28/22 23:48	1

Lab Sample ID: 500-212658-1 MS
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: TCLP
Prep Batch: 644783

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Barium	0.47	J	0.500	0.992		mg/L		104	75 - 125
Beryllium	<0.0040		0.0500	0.0475		mg/L		95	75 - 125
Boron	0.056	J	1.00	0.966		mg/L		91	75 - 125
Cadmium	<0.0050		0.0500	0.0522		mg/L		104	75 - 125
Chromium	<0.025		0.200	0.201		mg/L		101	75 - 125
Cobalt	<0.025		0.500	0.539		mg/L		108	75 - 125
Iron	0.29	J	1.00	1.15		mg/L		86	75 - 125
Lead	<0.0075		0.100	0.104		mg/L		104	75 - 125
Manganese	1.6		0.500	2.07		mg/L		96	75 - 125
Nickel	0.012	J	0.500	0.537		mg/L		105	75 - 125
Selenium	<0.050		0.100	0.102		mg/L		102	75 - 125
Silver	<0.025		0.0500	0.0546		mg/L		109	75 - 125
Zinc	0.055	J	0.500	0.601		mg/L		109	75 - 125

Lab Sample ID: 500-212658-1 DU
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: TCLP
Prep Batch: 644783

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Barium	0.47	J	0.470	J	mg/L		0.6	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.056	J	0.0550	J	mg/L		2	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	0.29	J	0.282	J	mg/L		2	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	1.6		1.59		mg/L		0.5	20
Nickel	0.012	J	0.0125	J	mg/L		5	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.055	J	0.0549	J	mg/L		0.08	20

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: LB 500-644601/1-B
Matrix: Solid
Analysis Batch: 645432

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644992

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		03/01/22 07:55	03/02/22 15:39	1
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/02/22 15:39	1

Lab Sample ID: 500-212658-6 MS
Matrix: Solid
Analysis Batch: 645432

Client Sample ID: 2615V2-01-B33 (0-3)
Prep Type: SPLP East
Prep Batch: 644992

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Lead	<0.0075		0.100	0.0927		mg/L		93	75 - 125
Manganese	<0.025		0.500	0.460		mg/L		92	75 - 125

Lab Sample ID: 500-212658-6 DU
Matrix: Solid
Analysis Batch: 645432

Client Sample ID: 2615V2-01-B33 (0-3)
Prep Type: SPLP East
Prep Batch: 644992

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD Limit
			Result	Qualifier				
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	<0.025		<0.025		mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644783/2-A
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644783

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.518		mg/L		104	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-644598/2-B
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644783

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 16:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 16:51	1

Lab Sample ID: 500-212658-1 MS
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: TCLP
Prep Batch: 644783

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Antimony	<0.0060		0.500	0.479		mg/L		96	75 - 125
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: 500-212658-1 DU
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: TCLP
Prep Batch: 644783

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

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644808/13-A
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644808

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:51	1

Lab Sample ID: LCS 500-644808/14-A
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LB 500-644598/2-C
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644808

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:48	1

Lab Sample ID: 500-212658-1 MS
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: TCLP
Prep Batch: 644808

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier							
Mercury	<0.00020		0.00100	0.00106		mg/L		106	75 - 125

Lab Sample ID: 500-212658-1 DU
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: 2615V2-01-B12 (0-2)
Prep Type: TCLP
Prep Batch: 644808

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

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-645412/12-A
Matrix: Solid
Analysis Batch: 645698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645412

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.017		0.017	0.0056	mg/Kg		03/03/22 11:00	03/04/22 07:42	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

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

Lab Sample ID: LCS 500-645412/13-A
Matrix: Solid
Analysis Batch: 645698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.174		mg/Kg		104	80 - 120

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

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B12 (0-2)

Lab Sample ID: 500-212658-1

Date Collected: 02/21/22 09:10

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 15:45	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:25	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:09	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:14	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 08:50	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Client Sample ID: 2615V2-01-B12 (0-2)

Lab Sample ID: 500-212658-1

Date Collected: 02/21/22 09:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 14:18	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644843	02/28/22 19:42	SS	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 15:58	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 13:05	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 07:46	MJG	TAL CHI

Client Sample ID: 2615V2-01-B11 (0-3)

Lab Sample ID: 500-212658-2

Date Collected: 02/21/22 09:50

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 15:48	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:45	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:31	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B11 (0-3)

Lab Sample ID: 500-212658-2

Date Collected: 02/21/22 09:50

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:21	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 08:52	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Client Sample ID: 2615V2-01-B11 (0-3)

Lab Sample ID: 500-212658-2

Date Collected: 02/21/22 09:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 14:44	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	645557	03/04/22 17:29	NB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:14	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 13:21	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645871	03/04/22 13:30	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 07:48	MJG	TAL CHI

Client Sample ID: 2615V2-01-B10 (0-3)

Lab Sample ID: 500-212658-3

Date Collected: 02/21/22 10:00

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 15:51	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:49	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:33	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:23	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 08:55	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B10 (0-3)

Lab Sample ID: 500-212658-3

Date Collected: 02/21/22 10:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 15:35	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	645557	03/04/22 17:53	NB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:17	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 13:33	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 07:50	MJG	TAL CHI

Client Sample ID: 2615V2-01-B28 (0-1)

Lab Sample ID: 500-212658-4

Date Collected: 02/21/22 10:50

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 15:55	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:52	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:35	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:29	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 08:57	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Client Sample ID: 2615V2-01-B28 (0-1)

Lab Sample ID: 500-212658-4

Date Collected: 02/21/22 10:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 16:01	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	645557	03/04/22 18:17	NB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:20	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 13:36	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B28 (0-1)

Lab Sample ID: 500-212658-4

Date Collected: 02/21/22 10:50

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645871	03/04/22 13:40	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 07:52	MJG	TAL CHI

Client Sample ID: 2615V2-01-B29 (0-2)

Lab Sample ID: 500-212658-5

Date Collected: 02/21/22 10:52

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 15:58	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:56	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:37	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:31	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644313	(Start) 02/24/22 10:17 (End) 02/24/22 10:17	KMS	TAL CHI
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Client Sample ID: 2615V2-01-B29 (0-2)

Lab Sample ID: 500-212658-5

Date Collected: 02/21/22 10:52

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 16:26	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	645557	03/04/22 18:42	NB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:34	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		10	645878	03/04/22 15:09	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 13:43	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645871	03/04/22 13:46	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B29 (0-2)

Lab Sample ID: 500-212658-5

Date Collected: 02/21/22 10:52

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 07:53	MJG	TAL CHI

Client Sample ID: 2615V2-01-B33 (0-3)

Lab Sample ID: 500-212658-6

Date Collected: 02/21/22 11:40

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 16:01	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:59	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:39	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:33	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644313	(Start) 02/24/22 10:17 (End) 02/24/22 10:17	KMS	TAL CHI
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Client Sample ID: 2615V2-01-B33 (0-3)

Lab Sample ID: 500-212658-6

Date Collected: 02/21/22 11:40

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 16:52	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		5	644984	03/01/22 13:15	JSB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:37	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		10	645878	03/04/22 15:13	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 13:49	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645871	03/04/22 13:53	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 07:59	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B34 (0-3)

Lab Sample ID: 500-212658-7

Date Collected: 02/21/22 12:10

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 16:24	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 01:03	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:41	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:36	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 09:00	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Client Sample ID: 2615V2-01-B34 (0-3)

Lab Sample ID: 500-212658-7

Date Collected: 02/21/22 12:10

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 17:18	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	645557	03/04/22 19:06	NB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:40	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 13:56	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645871	03/04/22 13:59	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 08:01	MJG	TAL CHI

Client Sample ID: 2615V2-01-B31 (0-1)

Lab Sample ID: 500-212658-8

Date Collected: 02/21/22 12:30

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 16:27	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 01:06	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B31 (0-1)

Lab Sample ID: 500-212658-8

Date Collected: 02/21/22 12:30

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:48	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:38	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644313		KMS	TAL CHI
					(Start)	02/24/22 10:17		
					(End)	02/24/22 10:17		
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Client Sample ID: 2615V2-01-B31 (0-1)

Lab Sample ID: 500-212658-8

Date Collected: 02/21/22 12:30

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 17:44	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	645557	03/04/22 19:30	NB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:43	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		10	645878	03/04/22 15:16	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 14:12	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645871	03/04/22 14:16	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 08:03	MJG	TAL CHI

Client Sample ID: 2615V2-01-B30 (0-3)

Lab Sample ID: 500-212658-9

Date Collected: 02/21/22 12:40

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 16:30	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 01:10	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:50	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B30 (0-3)

Lab Sample ID: 500-212658-9

Date Collected: 02/21/22 12:40

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:40	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 10:48	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Client Sample ID: 2615V2-01-B30 (0-3)

Lab Sample ID: 500-212658-9

Date Collected: 02/21/22 12:40

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 18:09	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	645551	03/04/22 17:23	JSB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:47	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 14:19	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645871	03/04/22 14:22	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 08:04	MJG	TAL CHI

Client Sample ID: 2615V2-01-B35 (0-3)

Lab Sample ID: 500-212658-10

Date Collected: 02/21/22 13:00

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 16:33	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 01:13	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:52	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 10:50	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B35 (0-3)

Lab Sample ID: 500-212658-10

Date Collected: 02/21/22 13:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 18:35	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	645551	03/04/22 17:44	JSB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:50	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 14:26	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645871	03/04/22 14:29	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 08:06	MJG	TAL CHI

Client Sample ID: 2615V2-01-B32 (0-1)

Lab Sample ID: 500-212658-11

Date Collected: 02/21/22 14:15

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645432	03/02/22 16:37	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 01:23	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:54	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:44	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644313		KMS	TAL CHI
					(Start)	02/24/22 10:17		
					(End)	02/24/22 10:17		
Total/NA	Analysis	Moisture		1	644021	02/23/22 10:22	LWN	TAL CHI

Client Sample ID: 2615V2-01-B32 (0-1)

Lab Sample ID: 500-212658-11

Date Collected: 02/21/22 14:15

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 19:01	PMF	TAL CHI
Total/NA	Prep	3541			644613	02/25/22 19:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	645551	03/04/22 18:05	JSB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Client Sample ID: 2615V2-01-B32 (0-1)

Lab Sample ID: 500-212658-11

Date Collected: 02/21/22 14:15

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645625	03/03/22 16:53	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		10	645878	03/04/22 15:29	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645871	03/04/22 14:32	JJB	TAL CHI
Total/NA	Prep	3050B			645282	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645871	03/04/22 14:35	JJB	TAL CHI
Total/NA	Prep	7471B			645412	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 08:08	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212658-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

Chain of Custody Record

542661



Environment Testing
TestAmerica

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

Address _____



Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact Company Name: <u>WSP</u> Address: _____ City/State/Zip: _____ Phone: _____ Fax: _____		Project Manager <u>D. Tichout</u> Tel/Email: _____		Site Contact Lab Contact: <u>D. Wright</u>		Date: <u>2/21/22</u> Carrier: _____		COC No: <u>1</u> of <u>2</u> COCs	
Project Name: <u>W0 09 Greenway</u> Site: <u>FAR 90/94/290</u> P O #: _____		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week (standard) <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		For Lab Use Only Walk-in Client: _____ Lab Sampling: _____ Job / SDG No: <u>500-212658</u>	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	VOC	SVOC	Metal	TCLP	pH	Solids	Sample Specific Notes
1 2615V2-01-B12 (0-2)	2/21/22	9:10	G	S	5		X	X	X	X	X		
2 2615V2-01-B11 (0-3)	2/21/22	9:50	G	S	5		X	X	X	X	X		
3 2615V2-01-B10 (0-3)	2/21/22	10:00	G	S	5		X	X	X	X	X		
4 2615V2-01-B28 (0-1)	2/21/22	10:50	G	S	5		X	X	X	X	X		
5 2615V2-01-B29 (0-2)	2/21/22	10:52	G	S	5		X	X	X	X	X		
6 2615V2-01-B33 (0-3)	2/21/22	11:40	G	S	5		X	X	X	X	X		
7 2615V2-01-B34 (0-3)	2/21/22	12:10	G	S	5		X	X	X	X	X		
8 2615V2-01-B31 (0-1)	2/21/22	12:30	G	S	5		X	X	X	X	X		
9 2615V2-01-B30 (0-3)	2/21/22	12:40	G	S	5		X	X	X	X	X		
10 2615V2-01-B35 (0-3)	2/21/22	13:00	G	S	5		X	X	X	X	X		
11 2615V2-01-B32 (0-1)	2/21/22	14:15	G	S	5		X	X	X	X	X		

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

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

Non Hazard Flammable Skin Irritant Poison B Unknown

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

Special Instructions/QC Requirements & Comments:

Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <u>4.8</u> Corr'd <u>3.8</u>		Therm ID No _____	
Relinquished by <u>CAITHLYN COOPER</u>		Company <u>WSP</u>		Date/Time <u>2/21/22 1550</u>		Received by <u>P. Neal</u>	
Relinquished by <u>P. Neal</u>		Company <u>eurofins</u>		Date/Time <u>2/4/22 1640</u>		Received by _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <u>Alan Scott</u>	
						Company <u>PRDA</u>	
						Date/Time <u>2/21/22 1640</u>	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212658-1

Login Number: 212658

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212721-1

Client Project/Site: IDOT - 196-002-WO008 Byrne Interchange

For:

WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
3/7/2022 1:25:53 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Job ID: 500-212721-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212721-1

Comments

No additional comments.

Receipt

The samples were received on 2/22/2022 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° C.

Receipt Exceptions

Sample ID for sample 1 modified per communication with WSP.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644945 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], Phenol and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-645437 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 4-Nitrophenol, Hexachlorocyclopentadiene, Pentachlorophenol and Phenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

Method 6010B: The method blank for preparation batch 500-645316 and analytical batch 500-645878 contained Chromium 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: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B36(0-1)

Lab Sample ID: 500-212721-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.036	J	0.040	0.0062	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.038	J	0.081	0.0074	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.056		0.040	0.0053	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.10		0.040	0.0072	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.066	J	0.20	0.047	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.14		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	1.5		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.35		0.040	0.0067	mg/Kg	1	✳	8270D	Total/NA
Carbazole	0.12	J	0.20	0.10	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	2.5		0.040	0.0074	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.8		0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	1.0		0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.99		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1.4		0.040	0.0086	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.58		0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	1.0		0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.35		0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.096		0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.32		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.62	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.1		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	68		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.61		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	7.0		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.49	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	66000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	17	B	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.6		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	28	B	0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	14000	B	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	92		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	290	B	0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	23	B	0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1300		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.27	J	0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	270		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Vanadium	16		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	130		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.099	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.088	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.057		0.019	0.0065	mg/Kg	1	✳	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B45(0-1)

Lab Sample ID: 500-212721-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0083	J	0.044	0.0062	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.020	J	0.044	0.0082	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.016	J	0.044	0.0088	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.0095	J	0.044	0.0059	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.044	0.0095	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.044	0.0086	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.64	J	1.3	0.25	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.3		0.66	0.22	mg/Kg	1	✳	6010B	Total/NA
Barium	94		0.66	0.075	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.98		0.26	0.061	mg/Kg	1	✳	6010B	Total/NA
Boron	3.2	J	3.3	0.31	mg/Kg	1	✳	6010B	Total/NA
Calcium	3200	B	13	2.2	mg/Kg	1	✳	6010B	Total/NA
Chromium	20	B	0.66	0.32	mg/Kg	1	✳	6010B	Total/NA
Cobalt	17		0.33	0.086	mg/Kg	1	✳	6010B	Total/NA
Copper	16	B	0.66	0.18	mg/Kg	1	✳	6010B	Total/NA
Iron	22000	B	13	6.8	mg/Kg	1	✳	6010B	Total/NA
Lead	25		0.33	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3800		6.6	3.3	mg/Kg	1	✳	6010B	Total/NA
Manganese	510	B	0.66	0.095	mg/Kg	1	✳	6010B	Total/NA
Nickel	25	B	0.66	0.19	mg/Kg	1	✳	6010B	Total/NA
Potassium	1500		33	12	mg/Kg	1	✳	6010B	Total/NA
Silver	0.39		0.33	0.085	mg/Kg	1	✳	6010B	Total/NA
Sodium	62	J	66	9.7	mg/Kg	1	✳	6010B	Total/NA
Vanadium	26		0.33	0.077	mg/Kg	1	✳	6010B	Total/NA
Zinc	57		1.3	0.58	mg/Kg	1	✳	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.063		0.022	0.0073	mg/Kg	1	✳	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B42(0-3)

Lab Sample ID: 500-212721-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.037		0.037	0.0057	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.045	J	0.075	0.0068	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.047		0.037	0.0049	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.057		0.037	0.0067	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.047	J	0.19	0.044	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.061		0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.85		0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.19		0.037	0.0062	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.5		0.037	0.0069	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.2		0.037	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.65		0.037	0.0050	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.70		0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.068	J	0.19	0.068	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1.1		0.037	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.41		0.037	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.70		0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B42(0-3) (Continued)

Lab Sample ID: 500-212721-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.23		0.037	0.0096	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.076		0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.21		0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.59	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.2		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	73		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.63		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	10		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.51	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	76000	B	56	9.5	mg/Kg	5	✳	6010B	Total/NA
Chromium	17	B	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.2		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	46	B	0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	15000	B	11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	230		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	31000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	310	B	0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	27	B	0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1600		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Silver	0.32		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	470		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Vanadium	16		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	160		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.085	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0039	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.040		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.18	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.17		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B39(0-3)

Lab Sample ID: 500-212721-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.055		0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.033	J	0.079	0.0072	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.018	J	0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.047		0.039	0.0071	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.046		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.38		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.082		0.039	0.0066	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.62		0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.54		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.27		0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.28		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.41		0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.27		0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B39(0-3) (Continued)

Lab Sample ID: 500-212721-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.11		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.028	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.087		0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.62	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.4		0.60	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	57		0.60	0.069	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.69		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Boron	9.1		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.44	B	0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	56000	B	60	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	21	B	0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.30	0.079	mg/Kg	1	✳	6010B	Total/NA
Copper	37	B	0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	16000	B	12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	87		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	25000		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	360	B	0.60	0.087	mg/Kg	1	✳	6010B	Total/NA
Nickel	27	B	0.60	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	1800		30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.28	J	0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Sodium	180		60	8.9	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.30	0.071	mg/Kg	1	✳	6010B	Total/NA
Zinc	98		1.2	0.53	mg/Kg	1	✳	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.080	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0051		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0093		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.10	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.17		0.019	0.0065	mg/Kg	1	✳	7471B	Total/NA
pH	6.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B40(0-2.5)

Lab Sample ID: 500-212721-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.030	J	0.041	0.0064	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.018	J	0.084	0.0077	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.014	J	0.041	0.0055	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.055		0.041	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.054		0.041	0.0059	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.68		0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.13		0.041	0.0070	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.2		0.041	0.0077	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.96		0.041	0.0083	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.41		0.041	0.0056	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.47		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.12	J	0.21	0.076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.75		0.041	0.0090	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.041	0.012	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B40(0-2.5) (Continued)

Lab Sample ID: 500-212721-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.49		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.17		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.047		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.58	J	1.3	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.6		0.63	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	85		0.63	0.072	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Boron	5.3		3.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.55	B	0.13	0.023	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000	B	13	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.082	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.63	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	13	6.5	mg/Kg	1	☼	6010B	Total/NA
Lead	82		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7400		6.3	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	400	B	0.63	0.091	mg/Kg	1	☼	6010B	Total/NA
Nickel	24	B	0.63	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		31	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.63	0.37	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		63	9.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.31	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	92		1.3	0.55	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.085	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0058		0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.047		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.19	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.083		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.088	F1	0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B43(0-2)

Lab Sample ID: 500-212721-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.046		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.014	J	0.041	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.087		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.077		0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.037	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.042		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.064		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.038	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.67	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B43(0-2) (Continued)

Lab Sample ID: 500-212721-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		0.62	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	87		0.62	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.79		0.25	0.057	mg/Kg	1	✳	6010B	Total/NA
Boron	3.4		3.1	0.29	mg/Kg	1	✳	6010B	Total/NA
Calcium	13000	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	17	B	0.62	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.31	0.081	mg/Kg	1	✳	6010B	Total/NA
Copper	14	B	0.62	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	18000	B	12	6.4	mg/Kg	1	✳	6010B	Total/NA
Lead	21		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	9200		6.2	3.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	500	B	0.62	0.089	mg/Kg	1	✳	6010B	Total/NA
Nickel	21	B	0.62	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	1500		31	11	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.38	J	0.62	0.36	mg/Kg	1	✳	6010B	Total/NA
Silver	0.26	J	0.31	0.079	mg/Kg	1	✳	6010B	Total/NA
Sodium	220		62	9.1	mg/Kg	1	✳	6010B	Total/NA
Vanadium	23		0.31	0.073	mg/Kg	1	✳	6010B	Total/NA
Zinc	55		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.052	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.057	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.021	0.0069	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-01-B41(0-3)

Lab Sample ID: 500-212721-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0072	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.018	J	0.037	0.0069	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.016	J	0.037	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.0089	J	0.037	0.0050	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.012	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.037	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.65	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.4		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	46		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.75		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	8.5		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.046	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	45000	B	57	9.6	mg/Kg	5	✳	6010B	Total/NA
Chromium	15	B	0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	31	B	0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	16000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	330	B	0.57	0.082	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B41(0-3) (Continued)

Lab Sample ID: 500-212721-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	37	B	0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		28	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	100		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.91		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.081	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.071		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago



Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212721-1	2615V2-01-B36(0-1)	Solid	02/22/22 08:55	02/22/22 15:00
500-212721-5	2615V2-01-B45(0-1)	Solid	02/22/22 10:20	02/22/22 15:00
500-212721-6	2615V2-01-B42(0-3)	Solid	02/22/22 11:00	02/22/22 15:00
500-212721-7	2615V2-01-B39(0-3)	Solid	02/22/22 11:20	02/22/22 15:00
500-212721-8	2615V2-01-B40(0-2.5)	Solid	02/22/22 11:25	02/22/22 15:00
500-212721-9	2615V2-01-B43(0-2)	Solid	02/22/22 12:05	02/22/22 15:00
500-212721-10	2615V2-01-B41(0-3)	Solid	02/22/22 12:35	02/22/22 15:00

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B36(0-1)

Lab Sample ID: 500-212721-1

Date Collected: 02/22/22 08:55

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0091	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Chloroethane	<0.0052		0.0052	0.0016	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
1,2-Dichloropropene	<0.0021		0.0021	0.00054	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Methylene Chloride	<0.0052		0.0052	0.0021	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0016	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	✱	02/22/22 17:21	03/02/22 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		75 - 131	02/22/22 17:21	03/02/22 12:06	1
Dibromofluoromethane	102		75 - 126	02/22/22 17:21	03/02/22 12:06	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/22/22 17:21	03/02/22 12:06	1
Toluene-d8 (Surr)	101		75 - 124	02/22/22 17:21	03/02/22 12:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	✱	02/28/22 06:20	03/01/22 11:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✱	02/28/22 06:20	03/01/22 11:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✱	02/28/22 06:20	03/01/22 11:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	02/28/22 06:20	03/01/22 11:47	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B36(0-1)

Lab Sample ID: 500-212721-1

Date Collected: 02/22/22 08:55

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Naphthalene	0.036	J	0.040	0.0062	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2-Methylnaphthalene	0.038	J	0.081	0.0074	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Acenaphthylene	0.056		0.040	0.0053	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Acenaphthene	0.10		0.040	0.0072	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Dibenzofuran	0.066	J	0.20	0.047	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Fluorene	0.14		0.040	0.0056	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Phenanthrene	1.5		0.040	0.0056	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Anthracene	0.35		0.040	0.0067	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Carbazole	0.12	J	0.20	0.10	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Fluoranthene	2.5		0.040	0.0074	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Pyrene	1.8		0.040	0.0080	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1
Benzo[a]anthracene	1.0		0.040	0.0054	mg/Kg	☼	02/28/22 06:20	03/01/22 11:47	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B36(0-1)

Lab Sample ID: 500-212721-1

Date Collected: 02/22/22 08:55

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.99		0.040	0.011	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
Benzo[b]fluoranthene	1.4		0.040	0.0086	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
Benzo[k]fluoranthene	0.58		0.040	0.012	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
Benzo[a]pyrene	1.0		0.040	0.0077	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
Indeno[1,2,3-cd]pyrene	0.35		0.040	0.010	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
Dibenz(a,h)anthracene	0.096		0.040	0.0077	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
Benzo[g,h,i]perylene	0.32		0.040	0.013	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	✳	02/28/22 06:20	03/01/22 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		31 - 166	02/28/22 06:20	03/01/22 11:47	1
Phenol-d5	86		30 - 153	02/28/22 06:20	03/01/22 11:47	1
Nitrobenzene-d5 (Surr)	70		37 - 147	02/28/22 06:20	03/01/22 11:47	1
2-Fluorobiphenyl (Surr)	81		43 - 145	02/28/22 06:20	03/01/22 11:47	1
2,4,6-Tribromophenol	108		31 - 143	02/28/22 06:20	03/01/22 11:47	1
Terphenyl-d14 (Surr)	83		42 - 157	02/28/22 06:20	03/01/22 11:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.2	0.23	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Arsenic	6.1		0.59	0.20	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Barium	68		0.59	0.067	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Beryllium	0.61		0.24	0.055	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Boron	7.0		2.9	0.27	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Cadmium	0.49	B	0.12	0.021	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Calcium	66000	B	59	10	mg/Kg	✳	03/03/22 09:00	03/04/22 13:40	5
Chromium	17	B	0.59	0.29	mg/Kg	✳	03/03/22 09:00	03/04/22 13:36	1
Cobalt	8.6		0.29	0.077	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Copper	28	B	0.59	0.16	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Iron	14000	B	12	6.1	mg/Kg	✳	03/03/22 09:00	03/04/22 13:36	1
Lead	92		0.29	0.14	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Magnesium	27000		5.9	2.9	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Manganese	290	B	0.59	0.085	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Nickel	23	B	0.59	0.17	mg/Kg	✳	03/03/22 09:00	03/04/22 13:36	1
Potassium	1300		29	10	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Selenium	<0.59		0.59	0.35	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Silver	0.27	J	0.29	0.076	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Sodium	270		59	8.7	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Thallium	<0.59		0.59	0.29	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Vanadium	16		0.29	0.069	mg/Kg	✳	03/03/22 09:00	03/03/22 21:34	1
Zinc	130		1.2	0.52	mg/Kg	✳	03/03/22 09:00	03/04/22 13:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 22:57	1
Boron	0.099	J	0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:57	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B36(0-1)

Lab Sample ID: 500-212721-1

Date Collected: 02/22/22 08:55

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0028	J	0.0050	0.0020	mg/L	-	02/28/22 08:59	02/28/22 22:57	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:57	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:57	1
Iron	<0.40		0.40	0.20	mg/L	-	02/28/22 08:59	02/28/22 22:57	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/28/22 08:59	02/28/22 22:57	1
Manganese	1.1		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:57	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:57	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/28/22 08:59	02/28/22 22:57	1
Silver	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:57	1
Zinc	0.088	J	0.50	0.020	mg/L	-	02/28/22 08:59	02/28/22 22:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.27		0.025	0.010	mg/L	-	03/01/22 07:56	03/02/22 21:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/28/22 08:59	02/28/22 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/28/22 08:59	02/28/22 18:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/28/22 14:20	03/01/22 19:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.019	0.0065	mg/Kg	☆	03/03/22 11:00	03/04/22 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU	-		02/25/22 11:00	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B45(0-1)

Lab Sample ID: 500-212721-5

Date Collected: 02/22/22 10:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.028		0.028	0.012	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Benzene	<0.0028		0.0028	0.00071	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Bromodichloromethane	<0.0028		0.0028	0.00057	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Bromoform	<0.0028		0.0028	0.00082	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Bromomethane	<0.0070		0.0070	0.0026	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
2-Butanone (MEK)	<0.0070		0.0070	0.0031	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Carbon disulfide	<0.0070		0.0070	0.0015	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Carbon tetrachloride	<0.0028		0.0028	0.00081	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Chlorobenzene	<0.0028		0.0028	0.0010	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Chloroethane	<0.0070		0.0070	0.0021	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Chloroform	<0.0028		0.0028	0.00097	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Chloromethane	<0.0070		0.0070	0.0028	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
cis-1,2-Dichloroethene	<0.0028		0.0028	0.00078	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
cis-1,3-Dichloropropene	<0.0028		0.0028	0.00084	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Dibromochloromethane	<0.0028		0.0028	0.00091	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
1,1-Dichloroethane	<0.0028		0.0028	0.00096	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
1,2-Dichloroethane	<0.0070		0.0070	0.0022	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
1,1-Dichloroethene	<0.0028		0.0028	0.00096	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
1,2-Dichloropropane	<0.0028		0.0028	0.00072	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
1,3-Dichloropropane, Total	<0.0028		0.0028	0.00098	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Ethylbenzene	<0.0028		0.0028	0.0013	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
2-Hexanone	<0.0070		0.0070	0.0022	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Methylene Chloride	<0.0070		0.0070	0.0027	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
4-Methyl-2-pentanone (MIBK)	<0.0070		0.0070	0.0021	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Methyl tert-butyl ether	<0.0028		0.0028	0.00082	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Styrene	<0.0028		0.0028	0.00084	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
1,1,2,2-Tetrachloroethane	<0.0028		0.0028	0.00089	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Tetrachloroethene	<0.0028		0.0028	0.00095	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Toluene	<0.0028		0.0028	0.00070	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
trans-1,2-Dichloroethene	<0.0028		0.0028	0.0012	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
trans-1,3-Dichloropropene	<0.0028		0.0028	0.00098	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
1,1,1-Trichloroethane	<0.0028		0.0028	0.00094	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
1,1,2-Trichloroethane	<0.0028		0.0028	0.0012	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Trichloroethene	<0.0028		0.0028	0.00094	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Vinyl acetate	<0.0070		0.0070	0.0024	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Vinyl chloride	<0.0028		0.0028	0.0012	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1
Xylenes, Total	<0.0056		0.0056	0.00089	mg/Kg	✳	02/22/22 17:21	03/02/22 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		75 - 131	02/22/22 17:21	03/02/22 13:50	1
Dibromofluoromethane	102		75 - 126	02/22/22 17:21	03/02/22 13:50	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	02/22/22 17:21	03/02/22 13:50	1
Toluene-d8 (Surr)	98		75 - 124	02/22/22 17:21	03/02/22 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.098	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.066	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
1,3-Dichlorobenzene	<0.22		0.22	0.050	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
1,4-Dichlorobenzene	<0.22		0.22	0.057	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B45(0-1)

Lab Sample ID: 500-212721-5

Date Collected: 02/22/22 10:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.053	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2-Methylphenol	<0.22		0.22	0.071	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.051	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
N-Nitrosodi-n-propylamine	<0.089		0.089	0.054	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Hexachloroethane	<0.22		0.22	0.067	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2-Chlorophenol	<0.22		0.22	0.075	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.048	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Isophorone	<0.22		0.22	0.050	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Hexachlorobutadiene	<0.22		0.22	0.069	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Naphthalene	<0.044		0.044	0.0068	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2,4-Dichlorophenol	<0.44		0.44	0.11	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
4-Chloroaniline	<0.89		0.89	0.21	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Hexachlorocyclopentadiene	<0.89		0.89	0.25	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2-Methylnaphthalene	<0.089		0.089	0.0081	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2-Nitroaniline	<0.22		0.22	0.059	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2,6-Dinitrotoluene	<0.22		0.22	0.087	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2-Nitrophenol	<0.44		0.44	0.10	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
3-Nitroaniline	<0.44		0.44	0.14	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Dimethyl phthalate	<0.22		0.22	0.058	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2,4-Dinitrophenol	<0.89		0.89	0.78	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Acenaphthylene	<0.044		0.044	0.0058	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
2,4-Dinitrotoluene	<0.22		0.22	0.070	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Acenaphthene	<0.044		0.044	0.0079	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
4-Nitrophenol	<0.89		0.89	0.42	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Fluorene	<0.044		0.044	0.0062	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
4-Nitroaniline	<0.44		0.44	0.18	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.058	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Hexachlorobenzene	<0.089		0.089	0.010	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Diethyl phthalate	<0.22		0.22	0.075	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.052	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Pentachlorophenol	<0.89		0.89	0.71	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
N-Nitrosodiphenylamine	<0.22		0.22	0.052	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
4,6-Dinitro-2-methylphenol	<0.89		0.89	0.36	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Phenanthrene	0.0083	J	0.044	0.0062	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Anthracene	<0.044		0.044	0.0074	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Di-n-butyl phthalate	<0.22		0.22	0.067	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Fluoranthene	0.020	J	0.044	0.0082	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Pyrene	0.016	J	0.044	0.0088	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Butyl benzyl phthalate	<0.22		0.22	0.084	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1
Benzo[a]anthracene	0.0095	J	0.044	0.0059	mg/Kg	☆	02/28/22 06:20	03/01/22 13:22	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B45(0-1)

Lab Sample ID: 500-212721-5

Date Collected: 02/22/22 10:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.044		0.044	0.012	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.062	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.081	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
Di-n-octyl phthalate	<0.22		0.22	0.072	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
Benzo[b]fluoranthene	0.016	J	0.044	0.0095	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
Benzo[k]fluoranthene	<0.044		0.044	0.013	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
Benzo[a]pyrene	0.012	J	0.044	0.0086	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
Indeno[1,2,3-cd]pyrene	<0.044		0.044	0.011	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
Dibenz(a,h)anthracene	<0.044		0.044	0.0085	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
Benzo[g,h,i]perylene	<0.044		0.044	0.014	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1
3 & 4 Methylphenol	<0.22		0.22	0.074	mg/Kg	✳	02/28/22 06:20	03/01/22 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	85		31 - 166	02/28/22 06:20	03/01/22 13:22	1
Phenol-d5	80		30 - 153	02/28/22 06:20	03/01/22 13:22	1
Nitrobenzene-d5 (Surr)	56		37 - 147	02/28/22 06:20	03/01/22 13:22	1
2-Fluorobiphenyl (Surr)	64		43 - 145	02/28/22 06:20	03/01/22 13:22	1
2,4,6-Tribromophenol	89		31 - 143	02/28/22 06:20	03/01/22 13:22	1
Terphenyl-d14 (Surr)	81		42 - 157	02/28/22 06:20	03/01/22 13:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.3	0.25	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Arsenic	7.3		0.66	0.22	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Barium	94		0.66	0.075	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Beryllium	0.98		0.26	0.061	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Boron	3.2	J	3.3	0.31	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Cadmium	<0.13		0.13	0.024	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Calcium	3200	B	13	2.2	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Chromium	20	B	0.66	0.32	mg/Kg	✳	03/03/22 09:00	03/04/22 13:55	1
Cobalt	17		0.33	0.086	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Copper	16	B	0.66	0.18	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Iron	22000	B	13	6.8	mg/Kg	✳	03/03/22 09:00	03/04/22 13:55	1
Lead	25		0.33	0.15	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Magnesium	3800		6.6	3.3	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Manganese	510	B	0.66	0.095	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Nickel	25	B	0.66	0.19	mg/Kg	✳	03/03/22 09:00	03/04/22 13:55	1
Potassium	1500		33	12	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Selenium	<0.66		0.66	0.39	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Silver	0.39		0.33	0.085	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Sodium	62	J	66	9.7	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Thallium	<0.66		0.66	0.33	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Vanadium	26		0.33	0.077	mg/Kg	✳	03/03/22 09:00	03/03/22 21:48	1
Zinc	57		1.3	0.58	mg/Kg	✳	03/03/22 09:00	03/04/22 13:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31	J	0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 23:27	1
Boron	<0.50		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:27	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B45(0-1)

Lab Sample ID: 500-212721-5

Date Collected: 02/22/22 10:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:59	02/28/22 23:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:27	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:27	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:59	02/28/22 23:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:59	02/28/22 23:27	1
Manganese	0.53		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:27	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:59	02/28/22 23:27	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:27	1
Zinc	0.045 J		0.50	0.020	mg/L		02/28/22 08:59	02/28/22 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L		03/01/22 07:56	03/02/22 21:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:59	02/28/22 18:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:59	02/28/22 18:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 19:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.022	0.0073	mg/Kg	☆	03/03/22 11:00	03/04/22 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1		0.2	0.2	SU			02/25/22 11:10	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B42(0-3)

Lab Sample ID: 500-212721-6

Date Collected: 02/22/22 11:00

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
1,2-Dichloropropene	<0.0017		0.0017	0.00043	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	✳	02/22/22 17:21	03/02/22 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		75 - 131	02/22/22 17:21	03/02/22 14:16	1
Dibromofluoromethane	107		75 - 126	02/22/22 17:21	03/02/22 14:16	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/22/22 17:21	03/02/22 14:16	1
Toluene-d8 (Surr)	100		75 - 124	02/22/22 17:21	03/02/22 14:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B42(0-3)

Lab Sample ID: 500-212721-6

Date Collected: 02/22/22 11:00

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 85.8

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	0.044	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Naphthalene	0.037		0.037	0.0057	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2-Methylnaphthalene	0.045 J		0.075	0.0068	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Acenaphthylene	0.047		0.037	0.0049	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Acenaphthene	0.057		0.037	0.0067	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Dibenzofuran	0.047 J		0.19	0.044	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Fluorene	0.061		0.037	0.0052	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Phenanthrene	0.85		0.037	0.0052	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Anthracene	0.19		0.037	0.0062	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Fluoranthene	1.5		0.037	0.0069	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Pyrene	1.2		0.037	0.0074	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1
Benzo[a]anthracene	0.65		0.037	0.0050	mg/Kg	✱	02/28/22 06:20	03/01/22 13:46	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B42(0-3)

Lab Sample ID: 500-212721-6

Date Collected: 02/22/22 11:00

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.70		0.037	0.010	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Bis(2-ethylhexyl) phthalate	0.068	J	0.19	0.068	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Benzo[b]fluoranthene	1.1		0.037	0.0080	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Benzo[k]fluoranthene	0.41		0.037	0.011	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Benzo[a]pyrene	0.70		0.037	0.0072	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Indeno[1,2,3-cd]pyrene	0.23		0.037	0.0096	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Dibenz(a,h)anthracene	0.076		0.037	0.0072	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Benzo[g,h,i]perylene	0.21		0.037	0.012	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	02/28/22 06:20	03/01/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		31 - 166				02/28/22 06:20	03/01/22 13:46	1
Phenol-d5	84		30 - 153				02/28/22 06:20	03/01/22 13:46	1
Nitrobenzene-d5 (Surr)	67		37 - 147				02/28/22 06:20	03/01/22 13:46	1
2-Fluorobiphenyl (Surr)	81		43 - 145				02/28/22 06:20	03/01/22 13:46	1
2,4,6-Tribromophenol	108		31 - 143				02/28/22 06:20	03/01/22 13:46	1
Terphenyl-d14 (Surr)	92		42 - 157				02/28/22 06:20	03/01/22 13:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.1	0.22	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Arsenic	7.2		0.56	0.19	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Barium	73		0.56	0.064	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Beryllium	0.63		0.22	0.052	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Boron	10		2.8	0.26	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Cadmium	0.51	B	0.11	0.020	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Calcium	76000	B	56	9.5	mg/Kg	✳	03/03/22 09:00	03/04/22 14:02	5
Chromium	17	B	0.56	0.28	mg/Kg	✳	03/03/22 09:00	03/04/22 13:58	1
Cobalt	9.2		0.28	0.073	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Copper	46	B	0.56	0.16	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Iron	15000	B	11	5.8	mg/Kg	✳	03/03/22 09:00	03/04/22 13:58	1
Lead	230		0.28	0.13	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Magnesium	31000		5.6	2.8	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Manganese	310	B	0.56	0.081	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Nickel	27	B	0.56	0.16	mg/Kg	✳	03/03/22 09:00	03/04/22 13:58	1
Potassium	1600		28	9.9	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Silver	0.32		0.28	0.072	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Sodium	470		56	8.3	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Thallium	<0.56		0.56	0.28	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Vanadium	16		0.28	0.066	mg/Kg	✳	03/03/22 09:00	03/03/22 21:51	1
Zinc	160		1.1	0.49	mg/Kg	✳	03/03/22 09:00	03/04/22 13:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 23:30	1
Boron	0.085	J	0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:30	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B42(0-3)

Lab Sample ID: 500-212721-6

Date Collected: 02/22/22 11:00

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0039	J	0.0050	0.0020	mg/L		02/28/22 08:59	02/28/22 23:30	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:30	1
Cobalt	0.035		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:30	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:59	02/28/22 23:30	1
Lead	0.040		0.0075	0.0075	mg/L		02/28/22 08:59	02/28/22 23:30	1
Manganese	2.5		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:30	1
Nickel	0.032		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:30	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:59	02/28/22 23:30	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:30	1
Zinc	0.18	J	0.50	0.020	mg/L		02/28/22 08:59	02/28/22 23:30	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		03/01/22 07:56	03/02/22 21:52	1
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:56	03/02/22 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:59	02/28/22 18:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:59	02/28/22 18:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 19:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.019	0.0062	mg/Kg	☼	03/03/22 11:00	03/04/22 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.3		0.2	0.2	SU			02/24/22 05:02	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B39(0-3)

Lab Sample ID: 500-212721-7

Date Collected: 02/22/22 11:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0099	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
2-Butanone (MEK)	<0.0057		0.0057	0.0025	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Carbon tetrachloride	<0.0023		0.0023	0.00066	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Chlorobenzene	<0.0023		0.0023	0.00083	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Chloroform	<0.0023		0.0023	0.00078	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
1,1-Dichloroethane	<0.0023		0.0023	0.00077	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
1,2-Dichloropropene	<0.0023		0.0023	0.00058	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00079	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Methylene Chloride	<0.0057		0.0057	0.0022	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00066	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Styrene	<0.0023		0.0023	0.00068	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00072	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00079	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Trichloroethene	<0.0023		0.0023	0.00076	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1
Xylenes, Total	<0.0045		0.0045	0.00072	mg/Kg	✳	02/22/22 17:21	03/02/22 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		75 - 131	02/22/22 17:21	03/02/22 14:42	1
Dibromofluoromethane	104		75 - 126	02/22/22 17:21	03/02/22 14:42	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/22/22 17:21	03/02/22 14:42	1
Toluene-d8 (Surr)	102		75 - 124	02/22/22 17:21	03/02/22 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	✳	02/28/22 06:20	03/01/22 14:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	02/28/22 06:20	03/01/22 14:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	02/28/22 06:20	03/01/22 14:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✳	02/28/22 06:20	03/01/22 14:10	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B39(0-3)

Lab Sample ID: 500-212721-7

Date Collected: 02/22/22 11:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Naphthalene	0.055		0.039	0.0060	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2-Methylnaphthalene	0.033 J		0.079	0.0072	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Acenaphthylene	0.018 J		0.039	0.0052	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Acenaphthene	0.047		0.039	0.0071	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Fluorene	0.046		0.039	0.0055	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Phenanthrene	0.38		0.039	0.0055	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Anthracene	0.082		0.039	0.0066	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Fluoranthene	0.62		0.039	0.0073	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Pyrene	0.54		0.039	0.0078	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1
Benzo[a]anthracene	0.27		0.039	0.0053	mg/Kg	☼	02/28/22 06:20	03/01/22 14:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B39(0-3)

Lab Sample ID: 500-212721-7

Date Collected: 02/22/22 11:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.28		0.039	0.011	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
Benzo[b]fluoranthene	0.41		0.039	0.0085	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
Benzo[k]fluoranthene	0.15		0.039	0.012	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
Benzo[a]pyrene	0.27		0.039	0.0076	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
Indeno[1,2,3-cd]pyrene	0.11		0.039	0.010	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
Dibenz(a,h)anthracene	0.028 J		0.039	0.0076	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
Benzo[g,h,i]perylene	0.087		0.039	0.013	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✱	02/28/22 06:20	03/01/22 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		31 - 166	02/28/22 06:20	03/01/22 14:10	1
Phenol-d5	65		30 - 153	02/28/22 06:20	03/01/22 14:10	1
Nitrobenzene-d5 (Surr)	53		37 - 147	02/28/22 06:20	03/01/22 14:10	1
2-Fluorobiphenyl (Surr)	58		43 - 145	02/28/22 06:20	03/01/22 14:10	1
2,4,6-Tribromophenol	75		31 - 143	02/28/22 06:20	03/01/22 14:10	1
Terphenyl-d14 (Surr)	67		42 - 157	02/28/22 06:20	03/01/22 14:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62 J		1.2	0.23	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Arsenic	7.4		0.60	0.21	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Barium	57		0.60	0.069	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Beryllium	0.69		0.24	0.056	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Boron	9.1		3.0	0.28	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Cadmium	0.44 B		0.12	0.022	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Calcium	56000 B		60	10	mg/Kg	✱	03/03/22 09:00	03/04/22 14:49	5
Chromium	21 B		0.60	0.30	mg/Kg	✱	03/03/22 09:00	03/04/22 14:11	1
Cobalt	10		0.30	0.079	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Copper	37 B		0.60	0.17	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Iron	16000 B		12	6.3	mg/Kg	✱	03/03/22 09:00	03/04/22 14:11	1
Lead	87		0.30	0.14	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Magnesium	25000		6.0	3.0	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Manganese	360 B		0.60	0.087	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Nickel	27 B		0.60	0.18	mg/Kg	✱	03/03/22 09:00	03/04/22 14:11	1
Potassium	1800		30	11	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Selenium	<0.60		0.60	0.35	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Silver	0.28 J		0.30	0.078	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Sodium	180		60	8.9	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Thallium	<0.60		0.60	0.30	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Vanadium	22		0.30	0.071	mg/Kg	✱	03/03/22 09:00	03/03/22 21:55	1
Zinc	98		1.2	0.53	mg/Kg	✱	03/03/22 09:00	03/04/22 14:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28 J		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 23:34	1
Boron	0.080 J		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:34	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B39(0-3)

Lab Sample ID: 500-212721-7

Date Collected: 02/22/22 11:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0051		0.0050	0.0020	mg/L		02/28/22 08:59	02/28/22 23:34	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:34	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:34	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:59	02/28/22 23:34	1
Lead	0.0093		0.0075	0.0075	mg/L		02/28/22 08:59	02/28/22 23:34	1
Manganese	1.7		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:34	1
Nickel	0.023	J	0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:59	02/28/22 23:34	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:34	1
Zinc	0.10	J	0.50	0.020	mg/L		02/28/22 08:59	02/28/22 23:34	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/01/22 07:56	03/02/22 22:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/01/22 07:56	03/02/22 22:05	1
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:56	03/02/22 22:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:59	02/28/22 18:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:59	02/28/22 18:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 19:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.019	0.0065	mg/Kg	☼	03/03/22 11:00	03/04/22 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.7		0.2	0.2	SU			02/24/22 05:07	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B40(0-2.5)

Lab Sample ID: 500-212721-8

Date Collected: 02/22/22 11:25

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
1,2-Dichloropropene	<0.0020		0.0020	0.00053	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	✳	02/22/22 17:21	03/02/22 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		75 - 131	02/22/22 17:21	03/02/22 15:07	1
Dibromofluoromethane	99		75 - 126	02/22/22 17:21	03/02/22 15:07	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/22/22 17:21	03/02/22 15:07	1
Toluene-d8 (Surr)	100		75 - 124	02/22/22 17:21	03/02/22 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B40(0-2.5)

Lab Sample ID: 500-212721-8

Date Collected: 02/22/22 11:25

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Naphthalene	0.030	J	0.041	0.0064	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2-Methylnaphthalene	0.018	J	0.084	0.0077	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Acenaphthylene	0.014	J	0.041	0.0055	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Acenaphthene	0.055		0.041	0.0075	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Fluorene	0.054		0.041	0.0059	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Phenanthrene	0.68		0.041	0.0058	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Anthracene	0.13		0.041	0.0070	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Fluoranthene	1.2		0.041	0.0077	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Pyrene	0.96		0.041	0.0083	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1
Benzo[a]anthracene	0.41		0.041	0.0056	mg/Kg	☼	02/28/22 06:20	03/01/22 14:34	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B40(0-2.5)

Lab Sample ID: 500-212721-8

Date Collected: 02/22/22 11:25

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.47		0.041	0.011	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
Bis(2-ethylhexyl) phthalate	0.12	J	0.21	0.076	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
Benzo[b]fluoranthene	0.75		0.041	0.0090	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
Benzo[k]fluoranthene	0.27		0.041	0.012	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
Benzo[a]pyrene	0.49		0.041	0.0081	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
Indeno[1,2,3-cd]pyrene	0.17		0.041	0.011	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
Dibenz(a,h)anthracene	0.047		0.041	0.0081	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
Benzo[g,h,i]perylene	0.15		0.041	0.013	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	✳	02/28/22 06:20	03/01/22 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		31 - 166	02/28/22 06:20	03/01/22 14:34	1
Phenol-d5	70		30 - 153	02/28/22 06:20	03/01/22 14:34	1
Nitrobenzene-d5 (Surr)	59		37 - 147	02/28/22 06:20	03/01/22 14:34	1
2-Fluorobiphenyl (Surr)	70		43 - 145	02/28/22 06:20	03/01/22 14:34	1
2,4,6-Tribromophenol	103		31 - 143	02/28/22 06:20	03/01/22 14:34	1
Terphenyl-d14 (Surr)	91		42 - 157	02/28/22 06:20	03/01/22 14:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J	1.3	0.24	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Arsenic	6.6		0.63	0.22	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Barium	85		0.63	0.072	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Beryllium	0.78		0.25	0.059	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Boron	5.3		3.1	0.29	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Cadmium	0.55	B	0.13	0.023	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Calcium	12000	B	13	2.1	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Chromium	21	B	0.63	0.31	mg/Kg	✳	03/03/22 09:00	03/04/22 14:52	1
Cobalt	11		0.31	0.082	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Copper	24	B	0.63	0.18	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Iron	17000	B	13	6.5	mg/Kg	✳	03/03/22 09:00	03/04/22 14:52	1
Lead	82		0.31	0.15	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Magnesium	7400		6.3	3.1	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Manganese	400	B	0.63	0.091	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Nickel	24	B	0.63	0.18	mg/Kg	✳	03/03/22 09:00	03/04/22 14:52	1
Potassium	1600		31	11	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Selenium	0.39	J	0.63	0.37	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Silver	0.41		0.31	0.081	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Sodium	120		63	9.3	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Thallium	<0.63		0.63	0.31	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Vanadium	21		0.31	0.074	mg/Kg	✳	03/03/22 09:00	03/03/22 21:58	1
Zinc	92		1.3	0.55	mg/Kg	✳	03/03/22 09:00	03/04/22 14:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 23:37	1
Boron	0.085	J	0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:37	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B40(0-2.5)

Lab Sample ID: 500-212721-8

Date Collected: 02/22/22 11:25

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0058		0.0050	0.0020	mg/L		02/28/22 08:59	02/28/22 23:37	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:37	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:37	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:59	02/28/22 23:37	1
Lead	0.047		0.0075	0.0075	mg/L		02/28/22 08:59	02/28/22 23:37	1
Manganese	2.6		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:37	1
Nickel	0.016	J	0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:37	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:59	02/28/22 23:37	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:37	1
Zinc	0.19	J	0.50	0.020	mg/L		02/28/22 08:59	02/28/22 23:37	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/01/22 07:56	03/02/22 22:08	1
Lead	0.083		0.0075	0.0075	mg/L		03/01/22 07:56	03/02/22 22:08	1
Manganese	0.26		0.025	0.010	mg/L		03/01/22 07:56	03/02/22 22:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:59	02/28/22 18:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:59	02/28/22 18:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 19:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088	F1	0.019	0.0064	mg/Kg	☼	03/03/22 11:00	03/04/22 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			02/24/22 05:09	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B43(0-2)

Lab Sample ID: 500-212721-9

Date Collected: 02/22/22 12:05

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0095	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Bromomethane	<0.0054		0.0054	0.0021	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
1,2-Dichloropropene	<0.0022		0.0022	0.00056	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00076	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	✳	02/22/22 17:21	03/02/22 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	02/22/22 17:21	03/02/22 15:33	1
Dibromofluoromethane	104		75 - 126	02/22/22 17:21	03/02/22 15:33	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	02/22/22 17:21	03/02/22 15:33	1
Toluene-d8 (Surr)	99		75 - 124	02/22/22 17:21	03/02/22 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	✳	02/28/22 06:20	03/01/22 15:11	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	✳	02/28/22 06:20	03/01/22 15:11	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	✳	02/28/22 06:20	03/01/22 15:11	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✳	02/28/22 06:20	03/01/22 15:11	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B43(0-2)

Lab Sample ID: 500-212721-9

Date Collected: 02/22/22 12:05

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Phenanthrene	0.046		0.041	0.0058	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Anthracene	0.014 J		0.041	0.0070	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Fluoranthene	0.087		0.041	0.0077	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Pyrene	0.077		0.041	0.0083	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Benzo[a]anthracene	0.037 J		0.041	0.0056	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B43(0-2)

Lab Sample ID: 500-212721-9

Date Collected: 02/22/22 12:05

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.042		0.041	0.011	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Benzo[b]fluoranthene	0.064		0.041	0.0090	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Benzo[k]fluoranthene	0.023 J		0.041	0.012	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Benzo[a]pyrene	0.038 J		0.041	0.0081	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Indeno[1,2,3-cd]pyrene	0.012 J		0.041	0.011	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	02/28/22 06:20	03/01/22 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		31 - 166	02/28/22 06:20	03/01/22 15:11	1
Phenol-d5	71		30 - 153	02/28/22 06:20	03/01/22 15:11	1
Nitrobenzene-d5 (Surr)	46		37 - 147	02/28/22 06:20	03/01/22 15:11	1
2-Fluorobiphenyl (Surr)	58		43 - 145	02/28/22 06:20	03/01/22 15:11	1
2,4,6-Tribromophenol	79		31 - 143	02/28/22 06:20	03/01/22 15:11	1
Terphenyl-d14 (Surr)	92		42 - 157	02/28/22 06:20	03/01/22 15:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67 J		1.2	0.24	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Arsenic	7.1		0.62	0.21	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Barium	87		0.62	0.070	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Beryllium	0.79		0.25	0.057	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Boron	3.4		3.1	0.29	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Calcium	13000 B		12	2.1	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Chromium	17 B		0.62	0.30	mg/Kg	☼	03/03/22 09:00	03/04/22 14:55	1
Cobalt	12		0.31	0.081	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Copper	14 B		0.62	0.17	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Iron	18000 B		12	6.4	mg/Kg	☼	03/03/22 09:00	03/04/22 14:55	1
Lead	21		0.31	0.14	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Magnesium	9200		6.2	3.1	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Manganese	500 B		0.62	0.089	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Nickel	21 B		0.62	0.18	mg/Kg	☼	03/03/22 09:00	03/04/22 14:55	1
Potassium	1500		31	11	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Selenium	0.38 J		0.62	0.36	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Silver	0.26 J		0.31	0.079	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Sodium	220		62	9.1	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Vanadium	23		0.31	0.073	mg/Kg	☼	03/03/22 09:00	03/03/22 22:12	1
Zinc	55		1.2	0.54	mg/Kg	☼	03/03/22 09:00	03/04/22 14:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47 J		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 23:40	1
Boron	0.052 J		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:40	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B43(0-2)

Lab Sample ID: 500-212721-9

Date Collected: 02/22/22 12:05

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:59	02/28/22 23:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:40	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:40	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:59	02/28/22 23:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:59	02/28/22 23:40	1
Manganese	0.31		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:40	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:59	02/28/22 23:40	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:40	1
Zinc	0.057 J		0.50	0.020	mg/L		02/28/22 08:59	02/28/22 23:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L		03/01/22 07:56	03/02/22 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:59	02/28/22 18:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:59	02/28/22 18:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 19:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.021	0.0069	mg/Kg	☆	03/03/22 11:00	03/04/22 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			02/24/22 05:12	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B41(0-3)

Lab Sample ID: 500-212721-10

Date Collected: 02/22/22 12:35

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0098	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Benzene	<0.0022		0.0022	0.00057	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Bromodichloromethane	<0.0022		0.0022	0.00046	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Carbon tetrachloride	<0.0022		0.0022	0.00065	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Chlorobenzene	<0.0022		0.0022	0.00083	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Chloroethane	<0.0056		0.0056	0.0017	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Chloroform	<0.0022		0.0022	0.00078	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Chloromethane	<0.0056		0.0056	0.0023	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00063	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00068	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Dibromochloromethane	<0.0022		0.0022	0.00073	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
1,1-Dichloroethane	<0.0022		0.0022	0.00077	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
1,2-Dichloroethane	<0.0056		0.0056	0.0017	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
1,1-Dichloroethene	<0.0022		0.0022	0.00077	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
1,2-Dichloropropene	<0.0022		0.0022	0.00058	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00079	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0017	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00066	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Styrene	<0.0022		0.0022	0.00068	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00072	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Tetrachloroethene	<0.0022		0.0022	0.00076	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Toluene	<0.0022		0.0022	0.00057	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00099	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00079	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00075	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00096	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Trichloroethene	<0.0022		0.0022	0.00076	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Vinyl acetate	<0.0056		0.0056	0.0020	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Vinyl chloride	<0.0022		0.0022	0.00099	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1
Xylenes, Total	<0.0045		0.0045	0.00072	mg/Kg	✱	02/22/22 17:21	03/02/22 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		75 - 131	02/22/22 17:21	03/02/22 15:59	1
Dibromofluoromethane	99		75 - 126	02/22/22 17:21	03/02/22 15:59	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/22/22 17:21	03/02/22 15:59	1
Toluene-d8 (Surr)	101		75 - 124	02/22/22 17:21	03/02/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B41(0-3)

Lab Sample ID: 500-212721-10

Date Collected: 02/22/22 12:35

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 83.8

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	0.045	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Phenanthrene	0.0072	J	0.037	0.0052	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Fluoranthene	0.018	J	0.037	0.0069	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Pyrene	0.016	J	0.037	0.0074	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1
Benzo[a]anthracene	0.0089	J	0.037	0.0050	mg/Kg	✱	02/28/22 06:20	03/01/22 15:35	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B41(0-3)

Lab Sample ID: 500-212721-10

Date Collected: 02/22/22 12:35

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.037	0.010	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
Benzo[b]fluoranthene	0.021	J	0.037	0.0081	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
Benzo[a]pyrene	0.012	J	0.037	0.0072	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/28/22 06:20	03/01/22 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		31 - 166				02/28/22 06:20	03/01/22 15:35	1
Phenol-d5	69		30 - 153				02/28/22 06:20	03/01/22 15:35	1
Nitrobenzene-d5 (Surr)	56		37 - 147				02/28/22 06:20	03/01/22 15:35	1
2-Fluorobiphenyl (Surr)	71		43 - 145				02/28/22 06:20	03/01/22 15:35	1
2,4,6-Tribromophenol	96		31 - 143				02/28/22 06:20	03/01/22 15:35	1
Terphenyl-d14 (Surr)	98		42 - 157				02/28/22 06:20	03/01/22 15:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.1	0.22	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Arsenic	6.4		0.57	0.19	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Barium	46		0.57	0.065	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Beryllium	0.75		0.23	0.053	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Boron	8.5		2.8	0.26	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Cadmium	0.046	J B	0.11	0.020	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Calcium	45000	B	57	9.6	mg/Kg	☼	03/03/22 09:00	03/04/22 15:02	5
Chromium	15	B	0.57	0.28	mg/Kg	☼	03/03/22 09:00	03/04/22 14:59	1
Cobalt	14		0.28	0.074	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Copper	31	B	0.57	0.16	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Iron	19000	B	11	5.9	mg/Kg	☼	03/03/22 09:00	03/04/22 14:59	1
Lead	16		0.28	0.13	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Magnesium	16000		5.7	2.8	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Manganese	330	B	0.57	0.082	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Nickel	37	B	0.57	0.17	mg/Kg	☼	03/03/22 09:00	03/04/22 14:59	1
Potassium	1900		28	10	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Silver	0.26	J	0.28	0.073	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Sodium	100		57	8.4	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Vanadium	15		0.28	0.067	mg/Kg	☼	03/03/22 09:00	03/03/22 22:15	1
Zinc	49		1.1	0.50	mg/Kg	☼	03/03/22 09:00	03/04/22 14:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.91		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 23:44	1
Boron	0.11	J	0.50	0.050	mg/L		02/28/22 08:59	02/28/22 23:44	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B41(0-3)

Lab Sample ID: 500-212721-10

Date Collected: 02/22/22 12:35

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:59	02/28/22 23:44	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:44	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:44	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:59	02/28/22 23:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:59	02/28/22 23:44	1
Manganese	1.4		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:44	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:44	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:59	02/28/22 23:44	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 23:44	1
Zinc	0.081	J	0.50	0.020	mg/L		02/28/22 08:59	02/28/22 23:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.071		0.025	0.010	mg/L		03/01/22 07:56	03/02/22 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:59	02/28/22 18:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:59	02/28/22 18:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 19:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0061	mg/Kg	☆	03/03/22 11:00	03/04/22 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			02/24/22 05:14	1

Definitions/Glossary

Client: WSP USA Inc.

Job ID: 500-212721-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

GC/MS VOA

Prep Batch: 644723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	5035	
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	5035	
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	5035	
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	5035	
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	5035	
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	5035	
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	5035	
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	5035	
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	5035	
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	5035	

Analysis Batch: 645190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	8260B	644723
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	8260B	644723
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	8260B	644723
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	8260B	644723
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	8260B	644723
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	8260B	644723
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	8260B	644723
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	8260B	644723
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	8260B	644723
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	8260B	644723
MB 500-645190/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-645190/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-645190/27	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	3541	
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	3541	
500-212721-2 - DL	2615V2-01-B46(0-2)	Total/NA	Solid	3541	
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	3541	
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	3541	
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	3541	
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	3541	
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	3541	
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	3541	
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	3541	
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	3541	
MB 500-644727/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644727/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 644945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	8270D	644727
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	8270D	644727
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	8270D	644727
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	8270D	644727

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

GC/MS Semi VOA (Continued)

Analysis Batch: 644945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	8270D	644727
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	8270D	644727
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	8270D	644727
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	8270D	644727
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	8270D	644727
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	8270D	644727
MB 500-644727/1-A	Method Blank	Total/NA	Solid	8270D	644727
LCS 500-644727/2-A	Lab Control Sample	Total/NA	Solid	8270D	644727

Analysis Batch: 645437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-2 - DL	2615V2-01-B46(0-2)	Total/NA	Solid	8270D	644727

Metals

Leach Batch: 644599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	TCLP	Solid	1311	
500-212721-2	2615V2-01-B46(0-2)	TCLP	Solid	1311	
500-212721-3	2615V2-01-B44(0-3)	TCLP	Solid	1311	
500-212721-4	2615V2-01-B44(0-3)D	TCLP	Solid	1311	
500-212721-5	2615V2-01-B45(0-1)	TCLP	Solid	1311	
500-212721-6	2615V2-01-B42(0-3)	TCLP	Solid	1311	
500-212721-7	2615V2-01-B39(0-3)	TCLP	Solid	1311	
500-212721-8	2615V2-01-B40(0-2.5)	TCLP	Solid	1311	
500-212721-9	2615V2-01-B43(0-2)	TCLP	Solid	1311	
500-212721-10	2615V2-01-B41(0-3)	TCLP	Solid	1311	
LB 500-644599/1-B	Method Blank	TCLP	Solid	1311	
LB 500-644599/2-B	Method Blank	TCLP	Solid	1311	
500-212721-2 MS	2615V2-01-B46(0-2)	TCLP	Solid	1311	
500-212721-2 DU	2615V2-01-B46(0-2)	TCLP	Solid	1311	

Leach Batch: 644602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	SPLP East	Solid	1312	
500-212721-2	2615V2-01-B46(0-2)	SPLP East	Solid	1312	
500-212721-3	2615V2-01-B44(0-3)	SPLP East	Solid	1312	
500-212721-4	2615V2-01-B44(0-3)D	SPLP East	Solid	1312	
500-212721-5	2615V2-01-B45(0-1)	SPLP East	Solid	1312	
500-212721-6	2615V2-01-B42(0-3)	SPLP East	Solid	1312	
500-212721-7	2615V2-01-B39(0-3)	SPLP East	Solid	1312	
500-212721-8	2615V2-01-B40(0-2.5)	SPLP East	Solid	1312	
500-212721-9	2615V2-01-B43(0-2)	SPLP East	Solid	1312	
500-212721-10	2615V2-01-B41(0-3)	SPLP East	Solid	1312	
LB 500-644602/1-B	Method Blank	SPLP East	Solid	1312	
500-212721-6 MS	2615V2-01-B42(0-3)	SPLP East	Solid	1312	
500-212721-6 DU	2615V2-01-B42(0-3)	SPLP East	Solid	1312	

Prep Batch: 644784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	TCLP	Solid	3010A	644599

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Metals (Continued)

Prep Batch: 644784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-2	2615V2-01-B46(0-2)	TCLP	Solid	3010A	644599
500-212721-3	2615V2-01-B44(0-3)	TCLP	Solid	3010A	644599
500-212721-4	2615V2-01-B44(0-3)D	TCLP	Solid	3010A	644599
500-212721-5	2615V2-01-B45(0-1)	TCLP	Solid	3010A	644599
500-212721-6	2615V2-01-B42(0-3)	TCLP	Solid	3010A	644599
500-212721-7	2615V2-01-B39(0-3)	TCLP	Solid	3010A	644599
500-212721-8	2615V2-01-B40(0-2.5)	TCLP	Solid	3010A	644599
500-212721-9	2615V2-01-B43(0-2)	TCLP	Solid	3010A	644599
500-212721-10	2615V2-01-B41(0-3)	TCLP	Solid	3010A	644599
LB 500-644599/2-B	Method Blank	TCLP	Solid	3010A	644599
LCS 500-644784/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212721-2 MS	2615V2-01-B46(0-2)	TCLP	Solid	3010A	644599
500-212721-2 DU	2615V2-01-B46(0-2)	TCLP	Solid	3010A	644599

Prep Batch: 644818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	TCLP	Solid	7470A	644599
500-212721-2	2615V2-01-B46(0-2)	TCLP	Solid	7470A	644599
500-212721-3	2615V2-01-B44(0-3)	TCLP	Solid	7470A	644599
500-212721-4	2615V2-01-B44(0-3)D	TCLP	Solid	7470A	644599
500-212721-5	2615V2-01-B45(0-1)	TCLP	Solid	7470A	644599
500-212721-6	2615V2-01-B42(0-3)	TCLP	Solid	7470A	644599
500-212721-7	2615V2-01-B39(0-3)	TCLP	Solid	7470A	644599
500-212721-8	2615V2-01-B40(0-2.5)	TCLP	Solid	7470A	644599
500-212721-9	2615V2-01-B43(0-2)	TCLP	Solid	7470A	644599
500-212721-10	2615V2-01-B41(0-3)	TCLP	Solid	7470A	644599
LB 500-644599/1-B	Method Blank	TCLP	Solid	7470A	644599
MB 500-644818/13-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-644818/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-212721-2 MS	2615V2-01-B46(0-2)	TCLP	Solid	7470A	644599
500-212721-2 DU	2615V2-01-B46(0-2)	TCLP	Solid	7470A	644599

Prep Batch: 644993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	SPLP East	Solid	3010A	644602
500-212721-2	2615V2-01-B46(0-2)	SPLP East	Solid	3010A	644602
500-212721-3	2615V2-01-B44(0-3)	SPLP East	Solid	3010A	644602
500-212721-4	2615V2-01-B44(0-3)D	SPLP East	Solid	3010A	644602
500-212721-5	2615V2-01-B45(0-1)	SPLP East	Solid	3010A	644602
500-212721-6	2615V2-01-B42(0-3)	SPLP East	Solid	3010A	644602
500-212721-7	2615V2-01-B39(0-3)	SPLP East	Solid	3010A	644602
500-212721-8	2615V2-01-B40(0-2.5)	SPLP East	Solid	3010A	644602
500-212721-9	2615V2-01-B43(0-2)	SPLP East	Solid	3010A	644602
500-212721-10	2615V2-01-B41(0-3)	SPLP East	Solid	3010A	644602
LB 500-644602/1-B	Method Blank	SPLP East	Solid	3010A	644602
LCS 500-644993/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212721-6 MS	2615V2-01-B42(0-3)	SPLP East	Solid	3010A	644602
500-212721-6 DU	2615V2-01-B42(0-3)	SPLP East	Solid	3010A	644602

QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Metals

Analysis Batch: 645035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	TCLP	Solid	6010B	644784
500-212721-2	2615V2-01-B46(0-2)	TCLP	Solid	6010B	644784
500-212721-3	2615V2-01-B44(0-3)	TCLP	Solid	6010B	644784
500-212721-4	2615V2-01-B44(0-3)D	TCLP	Solid	6010B	644784
500-212721-5	2615V2-01-B45(0-1)	TCLP	Solid	6010B	644784
500-212721-6	2615V2-01-B42(0-3)	TCLP	Solid	6010B	644784
500-212721-7	2615V2-01-B39(0-3)	TCLP	Solid	6010B	644784
500-212721-8	2615V2-01-B40(0-2.5)	TCLP	Solid	6010B	644784
500-212721-9	2615V2-01-B43(0-2)	TCLP	Solid	6010B	644784
500-212721-10	2615V2-01-B41(0-3)	TCLP	Solid	6010B	644784
LB 500-644599/2-B	Method Blank	TCLP	Solid	6010B	644784
LCS 500-644784/2-A	Lab Control Sample	Total/NA	Solid	6010B	644784
500-212721-2 MS	2615V2-01-B46(0-2)	TCLP	Solid	6010B	644784
500-212721-2 DU	2615V2-01-B46(0-2)	TCLP	Solid	6010B	644784

Analysis Batch: 645037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	TCLP	Solid	6020A	644784
500-212721-2	2615V2-01-B46(0-2)	TCLP	Solid	6020A	644784
500-212721-3	2615V2-01-B44(0-3)	TCLP	Solid	6020A	644784
500-212721-4	2615V2-01-B44(0-3)D	TCLP	Solid	6020A	644784
500-212721-5	2615V2-01-B45(0-1)	TCLP	Solid	6020A	644784
500-212721-6	2615V2-01-B42(0-3)	TCLP	Solid	6020A	644784
500-212721-7	2615V2-01-B39(0-3)	TCLP	Solid	6020A	644784
500-212721-8	2615V2-01-B40(0-2.5)	TCLP	Solid	6020A	644784
500-212721-9	2615V2-01-B43(0-2)	TCLP	Solid	6020A	644784
500-212721-10	2615V2-01-B41(0-3)	TCLP	Solid	6020A	644784
LB 500-644599/2-B	Method Blank	TCLP	Solid	6020A	644784
LCS 500-644784/2-A	Lab Control Sample	Total/NA	Solid	6020A	644784
500-212721-2 MS	2615V2-01-B46(0-2)	TCLP	Solid	6020A	644784
500-212721-2 DU	2615V2-01-B46(0-2)	TCLP	Solid	6020A	644784

Analysis Batch: 645126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	TCLP	Solid	7470A	644818
500-212721-2	2615V2-01-B46(0-2)	TCLP	Solid	7470A	644818
500-212721-3	2615V2-01-B44(0-3)	TCLP	Solid	7470A	644818
500-212721-4	2615V2-01-B44(0-3)D	TCLP	Solid	7470A	644818
500-212721-5	2615V2-01-B45(0-1)	TCLP	Solid	7470A	644818
500-212721-6	2615V2-01-B42(0-3)	TCLP	Solid	7470A	644818
500-212721-7	2615V2-01-B39(0-3)	TCLP	Solid	7470A	644818
500-212721-8	2615V2-01-B40(0-2.5)	TCLP	Solid	7470A	644818
500-212721-9	2615V2-01-B43(0-2)	TCLP	Solid	7470A	644818
500-212721-10	2615V2-01-B41(0-3)	TCLP	Solid	7470A	644818
LB 500-644599/1-B	Method Blank	TCLP	Solid	7470A	644818
MB 500-644818/13-A	Method Blank	Total/NA	Solid	7470A	644818
LCS 500-644818/14-A	Lab Control Sample	Total/NA	Solid	7470A	644818
500-212721-2 MS	2615V2-01-B46(0-2)	TCLP	Solid	7470A	644818
500-212721-2 DU	2615V2-01-B46(0-2)	TCLP	Solid	7470A	644818

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Metals

Prep Batch: 645316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	3050B	
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	3050B	
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	3050B	
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	3050B	
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	3050B	
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	3050B	
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	3050B	
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	3050B	
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	3050B	
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	3050B	
MB 500-645316/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-645316/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 645435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	SPLP East	Solid	6010B	644993
500-212721-2	2615V2-01-B46(0-2)	SPLP East	Solid	6010B	644993
500-212721-3	2615V2-01-B44(0-3)	SPLP East	Solid	6010B	644993
500-212721-4	2615V2-01-B44(0-3)D	SPLP East	Solid	6010B	644993
500-212721-5	2615V2-01-B45(0-1)	SPLP East	Solid	6010B	644993
500-212721-6	2615V2-01-B42(0-3)	SPLP East	Solid	6010B	644993
500-212721-7	2615V2-01-B39(0-3)	SPLP East	Solid	6010B	644993
500-212721-8	2615V2-01-B40(0-2.5)	SPLP East	Solid	6010B	644993
500-212721-9	2615V2-01-B43(0-2)	SPLP East	Solid	6010B	644993
500-212721-10	2615V2-01-B41(0-3)	SPLP East	Solid	6010B	644993
LB 500-644602/1-B	Method Blank	SPLP East	Solid	6010B	644993
LCS 500-644993/2-A	Lab Control Sample	Total/NA	Solid	6010B	644993
500-212721-6 MS	2615V2-01-B42(0-3)	SPLP East	Solid	6010B	644993
500-212721-6 DU	2615V2-01-B42(0-3)	SPLP East	Solid	6010B	644993

Prep Batch: 645468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	7471B	
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	7471B	
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	7471B	
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	7471B	
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	7471B	
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	7471B	
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	7471B	
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	7471B	
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	7471B	
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	7471B	
MB 500-645468/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-645468/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-212721-8 MS	2615V2-01-B40(0-2.5)	Total/NA	Solid	7471B	
500-212721-8 MSD	2615V2-01-B40(0-2.5)	Total/NA	Solid	7471B	
500-212721-8 DU	2615V2-01-B40(0-2.5)	Total/NA	Solid	7471B	

Analysis Batch: 645627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	6010B	645316

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QC Association Summary

Client: WSP USA Inc.
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Job ID: 500-212721-1

Metals (Continued)

Analysis Batch: 645627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	6010B	645316
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	6010B	645316
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	6010B	645316
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	6010B	645316
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	6010B	645316
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	6010B	645316
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	6010B	645316
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	6010B	645316
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	6010B	645316
MB 500-645316/1-A	Method Blank	Total/NA	Solid	6010B	645316
LCS 500-645316/2-A	Lab Control Sample	Total/NA	Solid	6010B	645316

Analysis Batch: 645698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	7471B	645468
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	7471B	645468
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	7471B	645468
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	7471B	645468
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	7471B	645468
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	7471B	645468
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	7471B	645468
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	7471B	645468
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	7471B	645468
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	7471B	645468
MB 500-645468/12-A	Method Blank	Total/NA	Solid	7471B	645468
LCS 500-645468/13-A	Lab Control Sample	Total/NA	Solid	7471B	645468
500-212721-8 MS	2615V2-01-B40(0-2.5)	Total/NA	Solid	7471B	645468
500-212721-8 MSD	2615V2-01-B40(0-2.5)	Total/NA	Solid	7471B	645468
500-212721-8 DU	2615V2-01-B40(0-2.5)	Total/NA	Solid	7471B	645468

Analysis Batch: 645878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	6010B	645316
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	6010B	645316
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	6010B	645316
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	6010B	645316
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	6010B	645316
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	6010B	645316
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	6010B	645316
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	6010B	645316
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	6010B	645316
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	6010B	645316
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	6010B	645316
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	6010B	645316
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	6010B	645316
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	6010B	645316
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	6010B	645316
MB 500-645316/1-A	Method Blank	Total/NA	Solid	6010B	645316
LCS 500-645316/2-A	Lab Control Sample	Total/NA	Solid	6010B	645316

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

General Chemistry

Analysis Batch: 644044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	Moisture	
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	Moisture	
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	Moisture	
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	Moisture	
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	Moisture	
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	Moisture	
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	Moisture	
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	Moisture	
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	Moisture	
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 644304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-6	2615V2-01-B42(0-3)	Total/NA	Solid	9045D	
500-212721-7	2615V2-01-B39(0-3)	Total/NA	Solid	9045D	
500-212721-8	2615V2-01-B40(0-2.5)	Total/NA	Solid	9045D	
500-212721-9	2615V2-01-B43(0-2)	Total/NA	Solid	9045D	
500-212721-10	2615V2-01-B41(0-3)	Total/NA	Solid	9045D	
LCS 500-644304/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644304/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-212721-6 DU	2615V2-01-B42(0-3)	Total/NA	Solid	9045D	

Analysis Batch: 644557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212721-1	2615V2-01-B36(0-1)	Total/NA	Solid	9045D	
500-212721-2	2615V2-01-B46(0-2)	Total/NA	Solid	9045D	
500-212721-3	2615V2-01-B44(0-3)	Total/NA	Solid	9045D	
500-212721-4	2615V2-01-B44(0-3)D	Total/NA	Solid	9045D	
500-212721-5	2615V2-01-B45(0-1)	Total/NA	Solid	9045D	
LCS 500-644557/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644557/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-212721-1	2615V2-01-B36(0-1)	117	102	105	101
500-212721-2	2615V2-01-B46(0-2)	115	109	109	99
500-212721-3	2615V2-01-B44(0-3)	111	109	106	98
500-212721-4	2615V2-01-B44(0-3)D	119	96	105	101
500-212721-5	2615V2-01-B45(0-1)	113	102	108	98
500-212721-6	2615V2-01-B42(0-3)	123	107	107	100
500-212721-7	2615V2-01-B39(0-3)	115	104	105	102
500-212721-8	2615V2-01-B40(0-2.5)	118	99	103	100
500-212721-9	2615V2-01-B43(0-2)	112	104	104	99
500-212721-10	2615V2-01-B41(0-3)	114	99	106	101
LCS 500-645190/4	Lab Control Sample	101	102	98	96
LCS 500-645190/27	Lab Control Sample Dup	108	96	93	100
MB 500-645190/6	Method Blank	111	100	99	95

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-212721-1	2615V2-01-B36(0-1)	92	86	70	81	108	83
500-212721-2	2615V2-01-B46(0-2)	86	77	71	78	106	78
500-212721-2 - DL	2615V2-01-B46(0-2)	114	50	54	89	71	94
500-212721-3	2615V2-01-B44(0-3)	85	77	67	80	104	86
500-212721-4	2615V2-01-B44(0-3)D	86	81	68	82	110	89
500-212721-5	2615V2-01-B45(0-1)	85	80	56	64	89	81
500-212721-6	2615V2-01-B42(0-3)	86	84	67	81	108	92
500-212721-7	2615V2-01-B39(0-3)	78	65	53	58	75	67
500-212721-8	2615V2-01-B40(0-2.5)	79	70	59	70	103	91
500-212721-9	2615V2-01-B43(0-2)	75	71	46	58	79	92
500-212721-10	2615V2-01-B41(0-3)	78	69	56	71	96	98
LCS 500-644727/2-A	Lab Control Sample	96	95	79	92	106	87
MB 500-644727/1-A	Method Blank	89	86	72	84	97	92

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: MB 500-645190/6
Matrix: Solid
Analysis Batch: 645190

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			03/02/22 10:48	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			03/02/22 10:48	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			03/02/22 10:48	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			03/02/22 10:48	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			03/02/22 10:48	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			03/02/22 10:48	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			03/02/22 10:48	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			03/02/22 10:48	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			03/02/22 10:48	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			03/02/22 10:48	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			03/02/22 10:48	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			03/02/22 10:48	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			03/02/22 10:48	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			03/02/22 10:48	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			03/02/22 10:48	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			03/02/22 10:48	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			03/02/22 10:48	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			03/02/22 10:48	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			03/02/22 10:48	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			03/02/22 10:48	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			03/02/22 10:48	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			03/02/22 10:48	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			03/02/22 10:48	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			03/02/22 10:48	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			03/02/22 10:48	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			03/02/22 10:48	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			03/02/22 10:48	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			03/02/22 10:48	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			03/02/22 10:48	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			03/02/22 10:48	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			03/02/22 10:48	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			03/02/22 10:48	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			03/02/22 10:48	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			03/02/22 10:48	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			03/02/22 10:48	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			03/02/22 10:48	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			03/02/22 10:48	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	111		75 - 131		03/02/22 10:48	1
Dibromofluoromethane	100		75 - 126		03/02/22 10:48	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/02/22 10:48	1
Toluene-d8 (Surr)	95		75 - 124		03/02/22 10:48	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: LCS 500-645190/4
Matrix: Solid
Analysis Batch: 645190

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0474		mg/Kg		95	40 - 150
Benzene	0.0500	0.0450		mg/Kg		90	70 - 125
Bromodichloromethane	0.0500	0.0473		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0538		mg/Kg		108	68 - 136
Bromomethane	0.0500	0.0420		mg/Kg		84	70 - 130
2-Butanone (MEK)	0.0500	0.0483		mg/Kg		97	47 - 138
Carbon disulfide	0.0500	0.0441		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0486		mg/Kg		97	75 - 125
Chlorobenzene	0.0500	0.0485		mg/Kg		97	50 - 150
Chloroethane	0.0500	0.0452		mg/Kg		90	75 - 125
Chloroform	0.0500	0.0497		mg/Kg		99	57 - 135
Chloromethane	0.0500	0.0438		mg/Kg		88	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0449		mg/Kg		90	70 - 125
Dibromochloromethane	0.0500	0.0487		mg/Kg		97	69 - 125
1,1-Dichloroethane	0.0500	0.0472		mg/Kg		94	70 - 125
1,2-Dichloroethane	0.0500	0.0497		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 120
1,2-Dichloropropane	0.0500	0.0443		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0467		mg/Kg		93	61 - 136
2-Hexanone	0.0500	0.0435		mg/Kg		87	48 - 146
Methylene Chloride	0.0500	0.0454		mg/Kg		91	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0424		mg/Kg		85	50 - 148
Methyl tert-butyl ether	0.0500	0.0458		mg/Kg		92	50 - 140
Styrene	0.0500	0.0473		mg/Kg		95	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0502		mg/Kg		100	70 - 122
Tetrachloroethene	0.0500	0.0518		mg/Kg		104	70 - 124
Toluene	0.0500	0.0457		mg/Kg		91	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0463		mg/Kg		93	70 - 125
1,1,1-Trichloroethane	0.0500	0.0508		mg/Kg		102	70 - 128
1,1,2-Trichloroethane	0.0500	0.0474		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0470		mg/Kg		94	70 - 125
Vinyl acetate	0.0500	0.0430		mg/Kg		86	40 - 153
Vinyl chloride	0.0500	0.0470		mg/Kg		94	70 - 125
Xylenes, Total	0.100	0.0946		mg/Kg		95	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		75 - 131
Dibromofluoromethane	102		75 - 126
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: LCSD 500-645190/27
Matrix: Solid
Analysis Batch: 645190

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0450		mg/Kg		90	40 - 150	5	30
Benzene	0.0500	0.0498		mg/Kg		100	70 - 125	10	30
Bromodichloromethane	0.0500	0.0545		mg/Kg		109	67 - 129	14	30
Bromoform	0.0500	0.0559		mg/Kg		112	68 - 136	4	30
Bromomethane	0.0500	0.0460		mg/Kg		92	70 - 130	9	30
2-Butanone (MEK)	0.0500	0.0477		mg/Kg		95	47 - 138	1	30
Carbon disulfide	0.0500	0.0477		mg/Kg		95	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0541		mg/Kg		108	75 - 125	11	30
Chlorobenzene	0.0500	0.0549		mg/Kg		110	50 - 150	12	30
Chloroethane	0.0500	0.0479		mg/Kg		96	75 - 125	6	30
Chloroform	0.0500	0.0520		mg/Kg		104	57 - 135	5	30
Chloromethane	0.0500	0.0472		mg/Kg		94	70 - 125	7	30
cis-1,2-Dichloroethene	0.0500	0.0497		mg/Kg		99	70 - 125	5	30
cis-1,3-Dichloropropene	0.0500	0.0514		mg/Kg		103	70 - 125	14	30
Dibromochloromethane	0.0500	0.0546		mg/Kg		109	69 - 125	11	30
1,1-Dichloroethane	0.0500	0.0506		mg/Kg		101	70 - 125	7	30
1,2-Dichloroethane	0.0500	0.0535		mg/Kg		107	70 - 130	7	30
1,1-Dichloroethene	0.0500	0.0503		mg/Kg		101	70 - 120	10	30
1,2-Dichloropropane	0.0500	0.0498		mg/Kg		100	70 - 125	12	30
Ethylbenzene	0.0500	0.0544		mg/Kg		109	61 - 136	15	30
2-Hexanone	0.0500	0.0432		mg/Kg		86	48 - 146	1	30
Methylene Chloride	0.0500	0.0506		mg/Kg		101	70 - 126	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0432		mg/Kg		86	50 - 148	2	30
Methyl tert-butyl ether	0.0500	0.0478		mg/Kg		96	50 - 140	4	30
Styrene	0.0500	0.0522		mg/Kg		104	70 - 125	10	30
1,1,2,2-Tetrachloroethane	0.0500	0.0562		mg/Kg		112	70 - 122	11	30
Tetrachloroethene	0.0500	0.0582		mg/Kg		116	70 - 124	12	30
Toluene	0.0500	0.0529		mg/Kg		106	70 - 125	15	30
trans-1,2-Dichloroethene	0.0500	0.0497		mg/Kg		99	70 - 125	6	30
trans-1,3-Dichloropropene	0.0500	0.0515		mg/Kg		103	70 - 125	11	30
1,1,1-Trichloroethane	0.0500	0.0544		mg/Kg		109	70 - 128	7	30
1,1,2-Trichloroethane	0.0500	0.0540		mg/Kg		108	70 - 125	13	30
Trichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125	13	30
Vinyl acetate	0.0500	0.0422		mg/Kg		84	40 - 153	2	30
Vinyl chloride	0.0500	0.0509		mg/Kg		102	70 - 125	8	30
Xylenes, Total	0.100	0.106		mg/Kg		106	53 - 147	11	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: MB 500-644727/1-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644727

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/28/22 06:20	03/01/22 09:47	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: MB 500-644727/1-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/28/22 06:20	03/01/22 09:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		31 - 166	02/28/22 06:20	03/01/22 09:47	1
Phenol-d5	86		30 - 153	02/28/22 06:20	03/01/22 09:47	1
Nitrobenzene-d5 (Surr)	72		37 - 147	02/28/22 06:20	03/01/22 09:47	1
2-Fluorobiphenyl (Surr)	84		43 - 145	02/28/22 06:20	03/01/22 09:47	1
2,4,6-Tribromophenol	97		31 - 143	02/28/22 06:20	03/01/22 09:47	1
Terphenyl-d14 (Surr)	92		42 - 157	02/28/22 06:20	03/01/22 09:47	1

Lab Sample ID: LCS 500-644727/2-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.45		mg/Kg		109	56 - 122
Bis(2-chloroethyl)ether	1.33	0.975		mg/Kg		73	55 - 111
1,3-Dichlorobenzene	1.33	1.10		mg/Kg		83	65 - 124
1,4-Dichlorobenzene	1.33	1.13		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.13		mg/Kg		84	62 - 110
2-Methylphenol	1.33	1.12		mg/Kg		84	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	0.697		mg/Kg		52	40 - 124
N-Nitrosodi-n-propylamine	1.33	0.931		mg/Kg		70	56 - 118
Hexachloroethane	1.33	0.960		mg/Kg		72	60 - 114
2-Chlorophenol	1.33	1.17		mg/Kg		88	64 - 110
Nitrobenzene	1.33	0.998		mg/Kg		75	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.01		mg/Kg		76	60 - 112
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	66 - 117
Isophorone	1.33	0.990		mg/Kg		74	55 - 110
2,4-Dimethylphenol	1.33	1.23		mg/Kg		93	60 - 110
Hexachlorobutadiene	1.33	1.30		mg/Kg		98	56 - 120
Naphthalene	1.33	1.16		mg/Kg		87	63 - 110
2,4-Dichlorophenol	1.33	1.30		mg/Kg		97	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: LCS 500-644727/2-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.05		mg/Kg		79	30 - 150
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		94	57 - 120
2,4,5-Trichlorophenol	1.33	1.30		mg/Kg		97	50 - 120
Hexachlorocyclopentadiene	1.33	0.837		mg/Kg		63	10 - 133
2-Methylnaphthalene	1.33	1.29		mg/Kg		96	69 - 112
2-Nitroaniline	1.33	0.941		mg/Kg		71	57 - 124
2-Chloronaphthalene	1.33	1.12		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.15		mg/Kg		86	65 - 122
2,6-Dinitrotoluene	1.33	1.17		mg/Kg		88	70 - 123
2-Nitrophenol	1.33	1.19		mg/Kg		90	60 - 120
3-Nitroaniline	1.33	0.766		mg/Kg		57	40 - 122
Dimethyl phthalate	1.33	1.14		mg/Kg		85	69 - 116
2,4-Dinitrophenol	2.67	1.38		mg/Kg		52	10 - 100
Acenaphthylene	1.33	1.18		mg/Kg		88	68 - 120
2,4-Dinitrotoluene	1.33	1.27		mg/Kg		96	69 - 124
Acenaphthene	1.33	1.14		mg/Kg		85	65 - 124
Dibenzofuran	1.33	1.21		mg/Kg		91	66 - 115
4-Nitrophenol	2.67	2.44		mg/Kg		92	30 - 122
Fluorene	1.33	1.13		mg/Kg		85	62 - 120
4-Nitroaniline	1.33	0.883		mg/Kg		66	60 - 160
4-Bromophenyl phenyl ether	1.33	1.25		mg/Kg		94	68 - 118
Hexachlorobenzene	1.33	1.38		mg/Kg		103	63 - 124
Diethyl phthalate	1.33	1.25		mg/Kg		94	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Pentachlorophenol	2.67	2.07		mg/Kg		78	13 - 112
N-Nitrosodiphenylamine	1.33	1.16		mg/Kg		87	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.99		mg/Kg		75	10 - 110
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Anthracene	1.33	1.16		mg/Kg		87	70 - 114
Carbazole	1.33	1.18		mg/Kg		89	65 - 142
Di-n-butyl phthalate	1.33	1.19		mg/Kg		89	65 - 120
Fluoranthene	1.33	1.18		mg/Kg		89	62 - 120
Pyrene	1.33	1.08		mg/Kg		81	61 - 128
Butyl benzyl phthalate	1.33	1.01		mg/Kg		76	71 - 129
Benzo[a]anthracene	1.33	1.06		mg/Kg		80	67 - 122
Chrysene	1.33	1.10		mg/Kg		82	63 - 120
3,3'-Dichlorobenzidine	1.33	0.777		mg/Kg		58	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.08		mg/Kg		81	72 - 131
Di-n-octyl phthalate	1.33	1.17		mg/Kg		88	68 - 134
Benzo[b]fluoranthene	1.33	1.13		mg/Kg		85	69 - 129
Benzo[k]fluoranthene	1.33	1.23		mg/Kg		92	68 - 127
Benzo[a]pyrene	1.33	1.27		mg/Kg		95	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.21		mg/Kg		91	68 - 130
Dibenz(a,h)anthracene	1.33	1.23		mg/Kg		92	64 - 131
Benzo[g,h,i]perylene	1.33	1.20		mg/Kg		90	72 - 131
3 & 4 Methylphenol	1.33	1.33		mg/Kg		100	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: LCS 500-644727/2-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644727

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	96		31 - 166
Phenol-d5	95		30 - 153
Nitrobenzene-d5 (Surr)	79		37 - 147
2-Fluorobiphenyl (Surr)	92		43 - 145
2,4,6-Tribromophenol	106		31 - 143
Terphenyl-d14 (Surr)	87		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-644784/2-A
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644784

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0462		mg/L		92	80 - 120
Boron	1.00	0.916		mg/L		92	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Iron	1.00	0.814		mg/L		81	80 - 120
Lead	0.100	0.0965		mg/L		96	80 - 120
Manganese	0.500	0.483		mg/L		97	80 - 120
Nickel	0.500	0.516		mg/L		103	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0533		mg/L		107	80 - 120
Zinc	0.500	0.568		mg/L		114	80 - 120

Lab Sample ID: LCS 500-644993/2-A
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644993

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Cadmium	0.0500	0.0470		mg/L		94	80 - 120
Lead	0.100	0.0869		mg/L		87	80 - 120
Manganese	0.500	0.461		mg/L		92	80 - 120

Lab Sample ID: MB 500-645316/1-A
Matrix: Solid
Analysis Batch: 645627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645316

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Arsenic	<1.0		1.0	0.34	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Barium	<1.0		1.0	0.11	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Beryllium	<0.40		0.40	0.093	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Boron	<5.0		5.0	0.47	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Cadmium	0.0542	J	0.20	0.036	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Calcium	5.51	J	20	3.4	mg/Kg		03/03/22 09:00	03/03/22 20:24	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: MB 500-645316/1-A
Matrix: Solid
Analysis Batch: 645627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645316

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cobalt	<0.50		0.50	0.13	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Copper	0.281	J	1.0	0.28	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Lead	<0.50		0.50	0.23	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Magnesium	<10		10	5.0	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Manganese	0.377	J	1.0	0.15	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Potassium	<50		50	18	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Selenium	<1.0		1.0	0.59	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Silver	<0.50		0.50	0.13	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Sodium	<100		100	15	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Thallium	<1.0		1.0	0.50	mg/Kg		03/03/22 09:00	03/03/22 20:24	1
Vanadium	<0.50		0.50	0.12	mg/Kg		03/03/22 09:00	03/03/22 20:24	1

Lab Sample ID: MB 500-645316/1-A
Matrix: Solid
Analysis Batch: 645878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645316

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	1.71		1.0	0.50	mg/Kg		03/03/22 09:00	03/04/22 11:53	1
Iron	15.3	J	20	10	mg/Kg		03/03/22 09:00	03/04/22 11:53	1
Nickel	0.600	J	1.0	0.29	mg/Kg		03/03/22 09:00	03/04/22 11:53	1
Zinc	<2.0		2.0	0.88	mg/Kg		03/03/22 09:00	03/04/22 11:53	1

Lab Sample ID: LCS 500-645316/2-A
Matrix: Solid
Analysis Batch: 645627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645316

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	47.5		mg/Kg		95	80 - 120
Arsenic	10.0	8.44		mg/Kg		84	80 - 120
Barium	200	193		mg/Kg		96	80 - 120
Beryllium	5.00	4.63		mg/Kg		93	80 - 120
Boron	100	84.9		mg/Kg		85	80 - 120
Cadmium	5.00	4.66		mg/Kg		93	80 - 120
Calcium	1000	900		mg/Kg		90	80 - 120
Cobalt	50.0	47.3		mg/Kg		95	80 - 120
Copper	25.0	23.9		mg/Kg		96	80 - 120
Lead	10.0	8.82		mg/Kg		88	80 - 120
Magnesium	1000	894		mg/Kg		89	80 - 120
Manganese	50.0	47.0		mg/Kg		94	80 - 120
Potassium	1000	989		mg/Kg		99	80 - 120
Selenium	10.0	7.99		mg/Kg		80	80 - 120
Silver	5.00	4.42		mg/Kg		88	80 - 120
Sodium	1000	969		mg/Kg		97	80 - 120
Thallium	10.0	8.80		mg/Kg		88	80 - 120
Vanadium	50.0	47.0		mg/Kg		94	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: LCS 500-645316/2-A
Matrix: Solid
Analysis Batch: 645878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chromium	20.0	21.1		mg/Kg		105	80 - 120
Iron	100	108		mg/Kg		108	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Zinc	50.0	46.1		mg/Kg		92	80 - 120

Lab Sample ID: LB 500-644599/2-B
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644784

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 22:40	1
Boron	<0.50		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:59	02/28/22 22:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:59	02/28/22 22:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:59	02/28/22 22:40	1
Manganese	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Selenium	0.0220	J	0.050	0.020	mg/L		02/28/22 08:59	02/28/22 22:40	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Zinc	<0.50		0.50	0.020	mg/L		02/28/22 08:59	02/28/22 22:40	1

Lab Sample ID: 500-212721-2 MS
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: 2615V2-01-B46(0-2)
Prep Type: TCLP
Prep Batch: 644784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	0.36	J	0.500	0.853		mg/L		99	75 - 125
Beryllium	<0.0040		0.0500	0.0454		mg/L		91	75 - 125
Boron	0.11	J	1.00	0.998		mg/L		89	75 - 125
Cadmium	0.0026	J	0.0500	0.0528		mg/L		100	75 - 125
Chromium	<0.025		0.200	0.189		mg/L		94	75 - 125
Cobalt	<0.025		0.500	0.517		mg/L		103	75 - 125
Iron	<0.40		1.00	0.871		mg/L		87	75 - 125
Lead	0.012		0.100	0.110		mg/L		98	75 - 125
Manganese	0.90		0.500	1.36		mg/L		92	75 - 125
Nickel	<0.025		0.500	0.510		mg/L		102	75 - 125
Selenium	<0.050		0.100	0.0995		mg/L		99	75 - 125
Silver	<0.025		0.0500	0.0518		mg/L		104	75 - 125
Zinc	0.098	J	0.500	0.626		mg/L		106	75 - 125

Lab Sample ID: 500-212721-2 DU
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: 2615V2-01-B46(0-2)
Prep Type: TCLP
Prep Batch: 644784

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.36	J	0.352	J	mg/L		1	20

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: 500-212721-2 DU
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: 2615V2-01-B46(0-2)
Prep Type: TCLP
Prep Batch: 644784

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.11	J	0.107	J	mg/L		1	20
Cadmium	0.0026	J	0.00216	J	mg/L		20	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	0.012		0.0112		mg/L		9	20
Manganese	0.90		0.893		mg/L		1	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.098	J	0.0965	J	mg/L		2	20

Lab Sample ID: LB 500-644602/1-B
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644993

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/01/22 07:56	03/02/22 21:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/01/22 07:56	03/02/22 21:09	1
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:56	03/02/22 21:09	1

Lab Sample ID: 500-212721-6 MS
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: 2615V2-01-B42(0-3)
Prep Type: SPLP East
Prep Batch: 644993

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Cadmium	<0.0050		0.0500	0.0505		mg/L		101	75 - 125	
Lead	<0.0075		0.100	0.0985		mg/L		98	75 - 125	
Manganese	<0.025		0.500	0.474		mg/L		95	75 - 125	

Lab Sample ID: 500-212721-6 DU
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: 2615V2-01-B42(0-3)
Prep Type: SPLP East
Prep Batch: 644993

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	<0.025		<0.025		mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644784/2-A
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644784

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
Antimony	0.500	0.501		mg/L		100	80 - 120	
Thallium	0.100	0.0999		mg/L		100	80 - 120	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

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

Lab Sample ID: LB 500-644599/2-B
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644784

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:59	02/28/22 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:59	02/28/22 17:56	1

Lab Sample ID: 500-212721-2 MS
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: 2615V2-01-B46(0-2)
Prep Type: TCLP
Prep Batch: 644784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060		0.500	0.457		mg/L		91	75 - 125
Thallium	<0.0020		0.100	0.0972		mg/L		97	75 - 125

Lab Sample ID: 500-212721-2 DU
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: 2615V2-01-B46(0-2)
Prep Type: TCLP
Prep Batch: 644784

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

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644818/13-A
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 18:55	1

Lab Sample ID: LCS 500-644818/14-A
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00195		mg/L		98	80 - 120

Lab Sample ID: LB 500-644599/1-B
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644818

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 18:53	1

Lab Sample ID: 500-212721-2 MS
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: 2615V2-01-B46(0-2)
Prep Type: TCLP
Prep Batch: 644818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.00104		mg/L		104	75 - 125

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-212721-2 DU
 Matrix: Solid
 Analysis Batch: 645126

Client Sample ID: 2615V2-01-B46(0-2)
 Prep Type: TCLP
 Prep Batch: 644818

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

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-645468/12-A
 Matrix: Solid
 Analysis Batch: 645698

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 645468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		03/03/22 11:00	03/04/22 10:36	1

Lab Sample ID: LCS 500-645468/13-A
 Matrix: Solid
 Analysis Batch: 645698

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 645468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.161		mg/Kg		97	80 - 120

Lab Sample ID: 500-212721-8 MS
 Matrix: Solid
 Analysis Batch: 645698

Client Sample ID: 2615V2-01-B40(0-2.5)
 Prep Type: Total/NA
 Prep Batch: 645468

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.088	F1	0.0960	0.212	F1	mg/Kg	⊛	130	75 - 125

Lab Sample ID: 500-212721-8 MSD
 Matrix: Solid
 Analysis Batch: 645698

Client Sample ID: 2615V2-01-B40(0-2.5)
 Prep Type: Total/NA
 Prep Batch: 645468

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.088	F1	0.0956	0.181		mg/Kg	⊛	98	75 - 125	16	20

Lab Sample ID: 500-212721-8 DU
 Matrix: Solid
 Analysis Batch: 645698

Client Sample ID: 2615V2-01-B40(0-2.5)
 Prep Type: Total/NA
 Prep Batch: 645468

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.088	F1	0.0609	F3	mg/Kg	⊛	36	20

Method: 9045D - pH

Lab Sample ID: 500-212721-6 DU
 Matrix: Solid
 Analysis Batch: 644304

Client Sample ID: 2615V2-01-B42(0-3)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.3		7.4		SU		1	

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B36(0-1)

Lab Sample ID: 500-212721-1

Date Collected: 02/22/22 08:55

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 21:26	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 22:57	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:06	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:05	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 11:00	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-01-B36(0-1)

Lab Sample ID: 500-212721-1

Date Collected: 02/22/22 08:55

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 12:06	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 11:47	SS	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 21:34	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 13:36	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645878	03/04/22 13:40	JJB	TAL CHI
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 10:49	MJG	TAL CHI

Client Sample ID: 2615V2-01-B46(0-2)

Lab Sample ID: 500-212721-2

Date Collected: 02/22/22 09:35

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 21:29	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 23:00	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B46(0-2)

Lab Sample ID: 500-212721-2

Date Collected: 02/22/22 09:35

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:14	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:12	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 11:03	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-01-B46(0-2)

Lab Sample ID: 500-212721-2

Date Collected: 02/22/22 09:35

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 12:32	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 12:11	SS	TAL CHI
Total/NA	Prep	3541	DL		644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D	DL	5	645437	03/03/22 12:03	JSB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 21:38	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 13:43	JJB	TAL CHI
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 10:50	MJG	TAL CHI

Client Sample ID: 2615V2-01-B44(0-3)

Lab Sample ID: 500-212721-3

Date Collected: 02/22/22 09:55

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 21:32	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 23:20	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:22	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 11:05	SMO	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B44(0-3)

Lab Sample ID: 500-212721-3

Date Collected: 02/22/22 09:55

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-01-B44(0-3)

Lab Sample ID: 500-212721-3

Date Collected: 02/22/22 09:55

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 12:59	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 12:34	SS	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 21:42	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 13:46	JJB	TAL CHI
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 10:52	MJG	TAL CHI

Client Sample ID: 2615V2-01-B44(0-3)D

Lab Sample ID: 500-212721-4

Date Collected: 02/22/22 09:55

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 21:35	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 23:24	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:24	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:20	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 11:08	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-01-B44(0-3)D

Lab Sample ID: 500-212721-4

Date Collected: 02/22/22 09:55

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 13:25	PMF	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B44(0-3)D

Lab Sample ID: 500-212721-4

Date Collected: 02/22/22 09:55

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 12:58	SS	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 21:45	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 13:49	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645878	03/04/22 13:52	JJB	TAL CHI
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 10:55	MJG	TAL CHI

Client Sample ID: 2615V2-01-B45(0-1)

Lab Sample ID: 500-212721-5

Date Collected: 02/22/22 10:20

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 21:39	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 23:27	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:26	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:22	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 11:10	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-01-B45(0-1)

Lab Sample ID: 500-212721-5

Date Collected: 02/22/22 10:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 13:50	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 13:22	SS	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 21:48	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 13:55	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B45(0-1)

Lab Sample ID: 500-212721-5

Date Collected: 02/22/22 10:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 10:57	MJG	TAL CHI

Client Sample ID: 2615V2-01-B42(0-3)

Lab Sample ID: 500-212721-6

Date Collected: 02/22/22 11:00

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 21:52	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 23:30	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:28	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:24	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:02	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-01-B42(0-3)

Lab Sample ID: 500-212721-6

Date Collected: 02/22/22 11:00

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 14:16	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 13:46	SS	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 21:51	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 13:58	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645878	03/04/22 14:02	JJB	TAL CHI
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 11:00	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B39(0-3)

Lab Sample ID: 500-212721-7

Date Collected: 02/22/22 11:20

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 22:05	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 23:34	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:31	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:27	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:07	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-01-B39(0-3)

Lab Sample ID: 500-212721-7

Date Collected: 02/22/22 11:20

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 14:42	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 14:10	SS	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 21:55	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 14:11	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645878	03/04/22 14:49	JJB	TAL CHI
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 11:02	MJG	TAL CHI

Client Sample ID: 2615V2-01-B40(0-2.5)

Lab Sample ID: 500-212721-8

Date Collected: 02/22/22 11:25

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 22:08	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 23:37	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B40(0-2.5)

Lab Sample ID: 500-212721-8

Date Collected: 02/22/22 11:25

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:33	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:29	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:09	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-01-B40(0-2.5)

Lab Sample ID: 500-212721-8

Date Collected: 02/22/22 11:25

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 15:07	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 14:34	SS	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 21:58	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 14:52	JJB	TAL CHI
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 11:04	MJG	TAL CHI

Client Sample ID: 2615V2-01-B43(0-2)

Lab Sample ID: 500-212721-9

Date Collected: 02/22/22 12:05

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 22:11	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 23:40	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:39	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:31	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:12	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B43(0-2)

Lab Sample ID: 500-212721-9

Date Collected: 02/22/22 12:05

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 15:33	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 15:11	SS	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 22:12	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 14:55	JJB	TAL CHI
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 11:16	MJG	TAL CHI

Client Sample ID: 2615V2-01-B41(0-3)

Lab Sample ID: 500-212721-10

Date Collected: 02/22/22 12:35

Matrix: Solid

Date Received: 02/22/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 22:14	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 23:44	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:41	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:37	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:14	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-01-B41(0-3)

Lab Sample ID: 500-212721-10

Date Collected: 02/22/22 12:35

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644723	02/22/22 17:21	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645190	03/02/22 15:59	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 15:35	SS	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645627	03/03/22 22:15	JJB	TAL CHI
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		1	645878	03/04/22 14:59	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Client Sample ID: 2615V2-01-B41(0-3)

Lab Sample ID: 500-212721-10

Date Collected: 02/22/22 12:35

Matrix: Solid

Date Received: 02/22/22 15:00

Percent Solids: 83.8

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	3050B			645316	03/03/22 09:00		TAL CHI
Total/NA	Analysis	6010B		5	645878	03/04/22 15:02	JJB	TAL CHI
Total/NA	Prep	7471B			645468	03/03/22 11:00		TAL CHI
Total/NA	Analysis	7471B		1	645698	03/04/22 11:19	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212721-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

Chain of Custody Record

542664



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager D. Tiebout		Site Contact		Date 2/22/22		COC No 1				
Company Name WSP		Tel/Email		Lab Contact D. Wright		Carrier		1 of 1 COCs				
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOC SVOC Metals TCLP Salt Solids		<p>500-212721 COC</p>		Sampler				
City/State/Zip		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only		Walk-in Client		
Phone		TAT if different from Below						Lab Sampling		Job / SDG No		
Fax		<input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week (Standard) <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						500-212721		500-212721		
Project Name W008 Greenway												
Site FA1 90/94/240												
P O #												
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.			Sample Specific Notes			
1	2615V2-01-B38(0-1)	2/22/22	6:55	G	S	5	X	X	X	X	X	
2	2615V2-01-B40(0-2)	2/22/22	9:35	G	S	5	X	X	X	X	X	
3	2615V2-01-B44(0-3)	2/22/22	9:55	G	S	5	X	X	X	X	X	
4	2615V2-01-B44(0-3) DUP	2/22/22	9:55	G	S	5	X	X	X	X	X	
5	2615V2-01-B45(0-1)	2/22/22	10:20	G	S	5	X	X	X	X	X	
6	2615V2-01-B42(0-3)	2/22/22	11:00	G	S	5	X	X	X	X	X	
7	2615V2-01-B39(0-3)	2/22/22	11:20	G	S	5	X	X	X	X	X	
8	2615V2-01-B40(0-2,5)	2/22/22	11:25	G	S	5	X	X	X	X	X	
9	2615V2-01-B43(0-2)	2/22/22	12:05	G	S	5	X	X	X	X	X	
10	2615V2-01-B41(0-3)	2/22/22	12:35	G	S	5	X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other												
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments:												
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No				
Relinquished by Caitlyn Cooper		Company WSP		Date/Time 2/22/22 1:00		Received by		Company				
Relinquished by		Company		Date/Time		Received by		Company				
Relinquished by		Company		Date/Time		Received in Laboratory by Paula Gubley		Company ETA				
								Date/Time 2/22/22 1:50				

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212721-1

Login Number: 212721

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAI 90/94/290 Office Phone Number, if available: _____

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

400-1600 blocks of I-290 (ISGS #2615V2-114)

City: Chicago State: IL Zip Code: 60607

County: Cook Township: NA

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

Latitude: 41.87574 Longitude: -87.64744
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 0318995023 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 1,266

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

Locations 2615V2-114-B03 through -B06, -B08 through -B10, -B12, and -B14 were sampled within the construction zone adjacent to ISGS #2615V2-114 (ROW). Refer to PSI Report for ISGS #2615V2-114 (ROW) including Table 4-3, and Figures 4-7 and 4-12 through 4-15.

- 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 J212293-1, J212400-1, and J212468-1.

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

I, Tom Campbell (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: WSP USA
 Street Address: 115 W Washington St., Suite 1270S
 City: Indianapolis State: IN Zip Code: 46204
 Phone: (317) 972-1706

Tom Campbell
 Printed Name:



Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

03/22/2022

Date: Expires 11/30/2023







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

Analytical Data Summary
PTB #196-002; Work Order 08 - IDOT Job # D-91-441-20

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.
- † = 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.

CONTAMINANTS OF CONCERN

SITE				Comparison Criteria					
	2615V2-114-B03	2615V2-114-B04	2615V2-114-B05	MACs			TACO		
BORING	2615V2-114-B03 (0-1)	2615V2-114-B04 (0-3)	2615V2-114-B05 (0-3)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE									
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-1	0-3	0-3						
pH	7.9	7.9	7.5 J						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
Benzene	ND U	ND U	ND U	0.03	--	--	0.8	2.2	--
SVOCs (mg/kg)									
2-Methylnaphthalene	0.031 J	0.028 J	0.044 J	--	--	--	--	--	--
Acenaphthene	0.040	0.051	0.019 J	570	--	--	4,700	120,000	--
Acenaphthylene	0.011 J	0.033 J	ND U	--	--	--	--	--	--
Anthracene	0.10	0.21	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.22	0.69	0.0079 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.26 J †	0.78 J †	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.34 J	1.2 J †	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.066 J	0.19 J	0.015 J	--	--	--	--	--	--
Benzo(k)fluoranthene	0.13 J	0.43 J	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	0.066 J	ND U	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.23	0.71	0.028 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.023 J	0.063 J	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.44	1.4	0.015 J	3,100	--	--	3,100	82,000	--
Fluorene	0.041	0.057	ND U	560	--	--	3100	82000	--
Indeno(1,2,3-cd)pyrene	0.087 J	0.22 J	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.020 J	0.029 J	0.018 J	1.8	--	--	170	1.8	--
N-Nitrosodiphenylamine	ND U	ND U	ND U	1	--	--	130	25,000	--
Phenanthrene	0.39	0.87	0.13	--	--	--	--	--	--
Pyrene	0.53	2.0	0.030 J	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.53 J	0.67 J	0.30 J	5	--	--	31	82	--
Arsenic	7.8	5.8	7.7	11.3	13	--	13	61	--
Barium	42	45	37	1,500	--	--	5,500	14,000	--
Beryllium	0.60	0.39	0.49	22	--	--	160	410	--
Boron	17	16	8.7	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	89,000	120,000	45,000	--	--	--	--	--	--
Chromium	16	12	12	21	--	--	230	690	--
Cobalt	12	6.9	12	20	--	--	4,700	12,000	--
Copper	35	28	32	2,900	--	--	2,900	8,200	--
Iron	24,000 †m	13,000	18,000 †m	15,000	15,900	--	--	--	--
Lead	31	41	14	107	--	--	400	700	--
Magnesium	48,000	66,000	22,000	325,000	--	--	--	730,000	--
Manganese	310	270	320	630	636	--	1,600	4,100	--
Mercury	0.053	0.073	0.026	0.89	--	--	10	0.1	--
Nickel	32	19	32	100	--	--	1,600	4,100	--
Potassium	2,800	1,700	1,800	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	0.093 J	4.4	--	--	390	1,000	--
Sodium	230	390	620	--	--	--	--	--	--
Thallium	ND U	0.30 J	0.79	2.6	--	--	6.3	160	--
Vanadium	18	13	14	550	--	--	550	1,400	--
Zinc	57	73	41	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.30 J	0.32 J	0.34 J	--	--	--	--	--	2
Boron	0.075 J	0.12 J	0.090 J	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Cobalt	0.023 J	ND U	0.055	--	--	--	--	--	1
Iron	ND U	ND U	0.25 J	--	--	--	--	--	5
Manganese	1.3 L	0.46 L	2.2 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.052	0.010 J	0.13 L	--	--	--	--	--	0.1
Zinc	0.033 J	0.13 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Cadmium	NA	NA	NA	--	--	--	--	--	0.005
Manganese	ND U	ND U	0.030	--	--	--	--	--	0.15
Nickel	NA	NA	ND U	--	--	--	--	--	0.1

CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-114 (ROW)			Comparison Criteria					
	2615V2-114-B06	2615V2-114-B08	2615V2-114-B09	MACs			TACO		
BORING	2615V2-114-B06 (0-1)	2615V2-114-B08 (0-2)	2615V2-114-B09 (0-1)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2615V2-114-B06 (0-1)	2615V2-114-B08 (0-2)	2615V2-114-B09 (0-1)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-1	0-2	0-1						
pH	7.6 J	7.5 J	7.7 J						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
Benzene	ND U	ND U	ND U	0.03	--	--	0.8	2.2	--
SVOCs (mg/kg)									
2-Methylnaphthalene	0.048 J	0.029 J	0.018 J	--	--	--	--	--	--
Acenaphthene	0.39	0.020 J	0.015 J	570	--	--	4,700	120,000	--
Acenaphthylene	0.016 J	0.020 J	0.014 J	--	--	--	--	--	--
Anthracene	0.23	0.066	0.048	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.44	0.20	0.17	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.49 †	0.25 †	0.20 †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.64	0.30	0.27	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.14	0.077	0.039 J	--	--	--	--	--	--
Benzo(k)fluoranthene	0.27	0.15	0.088	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	46	--	--	46	4,100	--
Carbazole	0.17 J	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.45	0.24	0.20	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.048	0.024 J	0.012 J	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	0.27	ND U	ND U	--	--	--	--	--	--
Fluoranthene	1.0	0.40	0.37	3,100	--	--	3,100	82,000	--
Fluorene	0.25	0.015 J	0.017 J	560	--	--	3100	82000	--
Indeno(1,2,3-cd)pyrene	0.16	0.087	0.042	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.070	0.018 J	0.015 J	1.8	--	--	170	1.8	--
N-Nitrosodiphenylamine	ND U	ND U	ND U	1	--	--	130	25,000	--
Phenanthrene	0.84	0.22	0.24	--	--	--	--	--	--
Pyrene	0.91	0.46	0.36	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.23 J	0.34 J	0.38 J	5	--	--	31	82	--
Arsenic	4.9	6.1	6.8	11.3	13	--	13	61	--
Barium	37	53	65	1,500	--	--	5,500	14,000	--
Beryllium	0.28	0.40	0.48	22	--	--	160	410	--
Boron	10	9.6	7.3	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	140,000	99,000	58,000	--	--	--	--	--	--
Chromium	8.6	13	13	21	--	--	230	690	--
Cobalt	5.7	8.8	9.7	20	--	--	4,700	12,000	--
Copper	20	27	25	2,900	--	--	2,900	8,200	--
Iron	11,000	20,000 †m	16,000 †m	15,000	15,900	--	--	--	--
Lead	40	45	34	107	--	--	400	700	--
Magnesium	77,000	52,000	26,000	325,000	--	--	--	730,000	--
Manganese	280	360	390	630	636	--	1,600	4,100	--
Mercury	0.030	0.11	0.055	0.89	--	--	10	0.1	--
Nickel	15	23	24	100	--	--	1,600	4,100	--
Potassium	880	1,300	1,400	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	530	680	230	--	--	--	--	--	--
Thallium	ND U	0.39 J	0.58 J	2.6	--	--	6.3	160	--
Vanadium	9.7	12	16	550	--	--	550	1,400	--
Zinc	51	77	68	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.34 J	0.36 J	0.41 J	--	--	--	--	--	2
Boron	0.17 J	0.13 J	0.098 J	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0021 J	--	--	--	--	--	0.005
Cobalt	ND U	0.026	ND U	--	--	--	--	--	1
Iron	ND U	0.21 J	ND U	--	--	--	--	--	5
Manganese	1.2 L	2.6 L	1.6 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.025	0.028	0.013 J	--	--	--	--	--	0.1
Zinc	0.063 J	0.21 J	0.032 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Cadmium	NA	NA	NA	--	--	--	--	--	0.005
Manganese	ND U	ND U	ND U	--	--	--	--	--	0.15
Nickel	NA	NA	NA	--	--	--	--	--	0.1

CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-114 (ROW)			Comparison Criteria					
	2615V2-114-B10	2615V2-114-B12	2615V2-114-B14	MACs			TACO		
BORING	2615V2-114-B10 (0-2)	2615V2-114-B12 (0-3)	2615V2-114-B14 (0-3)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil						
MATRIX	0-2	0-3	0-3						
DEPTH (feet)	7.7 J	8.2	8.1						
pH	--	--	--						
PID (meter units)									
VOCs (mg/kg)									
Benzene	ND U	ND U	ND U	0.03	--	--	0.8	2.2	--
SVOCs (mg/kg)									
2-Methylnaphthalene	0.051 J	0.023 J	ND U	--	--	--	--	--	--
Acenaphthene	0.044	0.051	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.034 J	0.016 J	0.0075 J	--	--	--	--	--	--
Anthracene	0.13	0.14	0.022 J	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.35	0.34	0.092	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.36 †	0.37 †	0.11 †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.50	0.58	0.16	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.093	0.12	0.038 J	--	--	--	--	--	--
Benzo(k)fluoranthene	0.15	0.18	0.056	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	0.082 J	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.37	0.36	0.10	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.032 J	0.035 J	0.012 J	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	0.061 J	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.84	0.86	0.20	3,100	--	--	3,100	82,000	--
Fluorene	0.058	0.043	0.0061 J	560	--	--	3100	82000	--
Indeno(1,2,3-cd)pyrene	0.094	0.12	0.038 J	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.080	0.028 J	0.0069 J	1.8	--	--	170	1.8	--
N-Nitrosodiphenylamine	ND U	ND U	ND U	1	--	--	130	25,000	--
Phenanthrene	0.66	0.59	0.10	--	--	--	--	--	--
Pyrene	0.71	0.76	0.18	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.36 J	0.68 J	0.48 J	5	--	--	31	82	--
Arsenic	6.9	7.4	11	11.3	13	--	13	61	--
Barium	53	60	63	1,500	--	--	5,500	14,000	--
Beryllium	0.48	0.72	0.23	22	--	--	160	410	--
Boron	8.8	14 J	4.0	40	--	--	16,000	41,000	--
Cadmium	0.52	ND U	ND U	5.2	--	--	78	200	--
Calcium	69,000	54,000	9,800	--	--	--	--	--	--
Chromium	12	18 J	8.7	21	--	--	230	690	--
Cobalt	9.7	12	7.5	20	--	--	4,700	12,000	--
Copper	33	33	10	2,900	--	--	2,900	8,200	--
Iron	16,000 †m	19,000 †m	15,000	15,000	15,900	--	--	--	--
Lead	64	36 J	23	107	--	--	400	700	--
Magnesium	29,000	23,000	4,800	325,000	--	--	--	730,000	--
Manganese	310	420	360	630	636	--	1,600	4,100	--
Mercury	0.11	0.039	0.072	0.89	--	--	10	0.1	--
Nickel	25	33	10	100	--	--	1,600	4,100	--
Potassium	1,400	2,600	420	--	--	--	--	--	--
Selenium	ND U	0.42 J	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	210	180	120	--	--	--	--	--	--
Thallium	0.51 J	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	14	20	27	550	--	--	550	1,400	--
Zinc	100	78 J	97	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.36 J	0.53	0.14 J	--	--	--	--	--	2
Boron	0.11 J	0.051 J	0.098 J	--	--	--	--	--	2
Cadmium	0.0068 L	0.0021 J	ND U	--	--	--	--	--	0.005
Cobalt	0.025	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	2.0 L	1.1 L	1.5 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.032	0.020 J	0.010 J	--	--	--	--	--	0.1
Zinc	0.37 J	0.060 J	0.19 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Cadmium	ND U	NA	NA	--	--	--	--	--	0.005
Manganese	ND U	0.60 L	0.24 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	--	--	--	--	--	0.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212293-1

Client Project/Site: IDOT - 196-002-WO008 Byrne Interchange

For:

WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
2/28/2022 11:03:54 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Job ID: 500-212293-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212293-1

Receipt

The samples were received on 2/14/2022 5:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: 2615V2-114-B12 (0-3) (500-212293-1). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 643739 recovered outside control limits for 2-Hexanone.2615V2-114-B12 (0-3) (500-212293-1) and 2615V2-114-B14 (0-3) (500-212293-2)

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 643739 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported.2615V2-114-B12 (0-3) (500-212293-1) and 2615V2-114-B14 (0-3) (500-212293-2)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-643939 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], Hexachlorocyclopentadiene and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-643680 and analytical batch 500-643939 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries was within acceptance limits.

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

Metals

Method 6010B: The method blank for preparation batch 500-644302 and analytical batch 500-644656 contained Chromium 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.

Method 7470A: The initial calibration verification (ICV) result for batch 644370 recovered slightly above the 90-110% control limits for Hg (111%). All CCV's and batch QC were within acceptable limits. Sample results were non-detects, and have been reported as qualified data.

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: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B12 (0-3)

Lab Sample ID: 500-212293-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.028	J	0.038	0.0059	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.023	J	0.077	0.0070	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.016	J	0.038	0.0050	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.051		0.038	0.0068	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.043		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.59		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.14		0.038	0.0064	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.86		0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.76		0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.34		0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.36		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.58		0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.18		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.37		0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0099	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.035	J	0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.68	J F1	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.4		0.54	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	60		0.54	0.061	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.72		0.22	0.050	mg/Kg	1	✳	6010B	Total/NA
Boron	14	F1	2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.13	B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	54000	B	54	9.1	mg/Kg	5	✳	6010B	Total/NA
Chromium	18	B F1	0.54	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Copper	33		0.54	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	11	5.6	mg/Kg	1	✳	6010B	Total/NA
Lead	36	F2	0.27	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	23000		5.4	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	420	B	0.54	0.078	mg/Kg	1	✳	6010B	Total/NA
Nickel	33	B	0.54	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2600		27	9.5	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.42	J F1	0.54	0.32	mg/Kg	1	✳	6010B	Total/NA
Sodium	180		54	8.0	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.27	0.064	mg/Kg	1	✳	6010B	Total/NA
Zinc	78	F1	1.1	0.47	mg/Kg	1	✳	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.051	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.060	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.60		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-114-B14 (0-3)

Lab Sample ID: 500-212293-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0069	J	0.036	0.0056	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B14 (0-3) (Continued)

Lab Sample ID: 500-212293-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0075	J	0.036	0.0048	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0061	J	0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.10		0.036	0.0050	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.022	J	0.036	0.0060	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.20		0.036	0.0067	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.18		0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.092		0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.10		0.036	0.0099	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.082	J	0.18	0.066	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.036	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.056		0.036	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.11		0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.038	F1	0.036	0.0094	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J F1	0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.038	F1	0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.48	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	11		0.54	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	63		0.54	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.23		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	4.0		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.084	J B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	9800	B	11	1.8	mg/Kg	1	✳	6010B	Total/NA
Chromium	8.7	B	0.54	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	7.5		0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Copper	10		0.54	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	15000	B	11	5.6	mg/Kg	1	✳	6010B	Total/NA
Lead	23		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	4800		5.4	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	360	B	0.54	0.078	mg/Kg	1	✳	6010B	Total/NA
Nickel	10	B	0.54	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	420		27	9.6	mg/Kg	1	✳	6010B	Total/NA
Sodium	120		54	8.0	mg/Kg	1	✳	6010B	Total/NA
Vanadium	27		0.27	0.064	mg/Kg	1	✳	6010B	Total/NA
Zinc	97		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.098	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.19	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.072		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212293-1	2615V2-114-B12 (0-3)	Solid	02/14/22 10:54	02/14/22 17:05
500-212293-2	2615V2-114-B14 (0-3)	Solid	02/14/22 11:53	02/14/22 17:05

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B12 (0-3)

Lab Sample ID: 500-212293-1

Date Collected: 02/14/22 10:54

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Bromomethane	<0.0051	*+	0.0051	0.0019	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
2-Butanone (MEK)	<0.0051		0.0051	0.0022	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Chloromethane	<0.0051	*-	0.0051	0.0020	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
1,2-Dichloropropene	<0.0020		0.0020	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
2-Hexanone	<0.0051	*1	0.0051	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
1,1,2,2-Tetrachloroethane	<0.0020	*3	0.0020	0.00065	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1
Xylenes, Total	<0.0040		0.0040	0.00065	mg/Kg	☼	02/14/22 18:10	02/22/22 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121	*3	75 - 131	02/14/22 18:10	02/22/22 18:34	1
Dibromofluoromethane	114		75 - 126	02/14/22 18:10	02/22/22 18:34	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	02/14/22 18:10	02/22/22 18:34	1
Toluene-d8 (Surr)	115		75 - 124	02/14/22 18:10	02/22/22 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B12 (0-3)

Lab Sample ID: 500-212293-1

Date Collected: 02/14/22 10:54

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.9

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	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Naphthalene	0.028	J	0.038	0.0059	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2-Methylnaphthalene	0.023	J	0.077	0.0070	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Acenaphthylene	0.016	J	0.038	0.0050	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Acenaphthene	0.051		0.038	0.0068	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Fluorene	0.043		0.038	0.0053	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Phenanthrene	0.59		0.038	0.0053	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Anthracene	0.14		0.038	0.0064	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Carbazole	<0.19		0.19	0.095	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Fluoranthene	0.86		0.038	0.0071	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Pyrene	0.76		0.038	0.0076	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1
Benzo[a]anthracene	0.34		0.038	0.0051	mg/Kg	✱	02/22/22 06:30	02/23/22 18:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B12 (0-3)

Lab Sample ID: 500-212293-1

Date Collected: 02/14/22 10:54

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.36		0.038	0.010	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Benzo[b]fluoranthene	0.58		0.038	0.0082	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Benzo[k]fluoranthene	0.18		0.038	0.011	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Benzo[a]pyrene	0.37		0.038	0.0074	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0099	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Dibenz(a,h)anthracene	0.035	J	0.038	0.0074	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/22/22 06:30	02/23/22 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		31 - 166				02/22/22 06:30	02/23/22 18:10	1
Phenol-d5	96		30 - 153				02/22/22 06:30	02/23/22 18:10	1
Nitrobenzene-d5 (Surr)	80		37 - 147				02/22/22 06:30	02/23/22 18:10	1
2-Fluorobiphenyl (Surr)	92		43 - 145				02/22/22 06:30	02/23/22 18:10	1
2,4,6-Tribromophenol	122		31 - 143				02/22/22 06:30	02/23/22 18:10	1
Terphenyl-d14 (Surr)	116		42 - 157				02/22/22 06:30	02/23/22 18:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J F1	1.1	0.21	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Arsenic	7.4		0.54	0.18	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Barium	60		0.54	0.061	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Beryllium	0.72		0.22	0.050	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Boron	14	F1	2.7	0.25	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Cadmium	0.13	B	0.11	0.019	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Calcium	54000	B	54	9.1	mg/Kg	☼	02/25/22 09:04	02/27/22 14:28	5
Chromium	18	B F1	0.54	0.27	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Cobalt	12		0.27	0.071	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Copper	33		0.54	0.15	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Iron	19000	B	11	5.6	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Lead	36	F2	0.27	0.12	mg/Kg	☼	02/25/22 09:04	02/27/22 14:26	1
Magnesium	23000		5.4	2.7	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Manganese	420	B	0.54	0.078	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Nickel	33	B	0.54	0.16	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Potassium	2600		27	9.5	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Selenium	0.42	J F1	0.54	0.32	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Sodium	180		54	8.0	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Vanadium	20		0.27	0.064	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1
Zinc	78	F1	1.1	0.47	mg/Kg	☼	02/25/22 09:04	02/26/22 00:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		02/23/22 12:00	02/24/22 22:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 12:00	02/24/22 22:04	1
Boron	0.051	J	0.50	0.050	mg/L		02/23/22 12:00	02/24/22 22:04	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B12 (0-3)

Lab Sample ID: 500-212293-1

Date Collected: 02/14/22 10:54

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0021	J	0.0050	0.0020	mg/L	-	02/23/22 12:00	02/24/22 22:04	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/23/22 12:00	02/24/22 22:04	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/23/22 12:00	02/24/22 22:04	1
Iron	<0.40		0.40	0.20	mg/L	-	02/23/22 12:00	02/24/22 22:04	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/23/22 12:00	02/24/22 22:04	1
Manganese	1.1		0.025	0.010	mg/L	-	02/23/22 12:00	02/24/22 22:04	1
Nickel	0.020	J	0.025	0.010	mg/L	-	02/23/22 12:00	02/24/22 22:04	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/23/22 12:00	02/24/22 22:04	1
Silver	<0.025		0.025	0.010	mg/L	-	02/23/22 12:00	02/24/22 22:04	1
Zinc	0.060	J	0.50	0.020	mg/L	-	02/23/22 12:00	02/24/22 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.60		0.025	0.010	mg/L	-	02/23/22 09:13	02/24/22 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/23/22 12:00	02/24/22 18:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/23/22 12:00	02/24/22 18:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L	-	02/23/22 14:10	02/24/22 11:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0063	mg/Kg	☆	02/23/22 17:00	02/24/22 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU	-		02/17/22 17:29	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B14 (0-3)

Lab Sample ID: 500-212293-2

Date Collected: 02/14/22 11:53

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0096	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Bromomethane	<0.0055	*+	0.0055	0.0021	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
2-Butanone (MEK)	<0.0055		0.0055	0.0024	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Carbon tetrachloride	<0.0022		0.0022	0.00064	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Chlorobenzene	<0.0022		0.0022	0.00081	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Chloromethane	<0.0055	*-	0.0055	0.0022	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Dibromochloromethane	<0.0022		0.0022	0.00072	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
1,1-Dichloroethene	<0.0022		0.0022	0.00076	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
1,2-Dichloropropene	<0.0022		0.0022	0.00057	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00077	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
2-Hexanone	<0.0055	*1	0.0055	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00065	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Tetrachloroethene	<0.0022		0.0022	0.00075	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Toluene	<0.0022		0.0022	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00097	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00077	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00074	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00094	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Vinyl acetate	<0.0055		0.0055	0.0019	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Vinyl chloride	<0.0022		0.0022	0.00097	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	✳	02/14/22 18:10	02/22/22 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	02/14/22 18:10	02/22/22 19:00	1
Dibromofluoromethane	111		75 - 126	02/14/22 18:10	02/22/22 19:00	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	02/14/22 18:10	02/22/22 19:00	1
Toluene-d8 (Surr)	105		75 - 124	02/14/22 18:10	02/22/22 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
Bis(2-chloroethyl)ether	<0.18	F2	0.18	0.054	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
1,3-Dichlorobenzene	<0.18	F1	0.18	0.041	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
1,4-Dichlorobenzene	<0.18	F1	0.18	0.046	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B14 (0-3)

Lab Sample ID: 500-212293-2

Date Collected: 02/14/22 11:53

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Hexachloroethane	<0.18	F1	0.18	0.055	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Isophorone	<0.18		0.18	0.041	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2,4-Dimethylphenol	<0.36	F1 F2	0.36	0.14	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Naphthalene	0.0069	J	0.036	0.0056	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2,4,5-Trichlorophenol	<0.36	F1	0.36	0.083	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Hexachlorocyclopentadiene	<0.73	F1	0.73	0.21	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2,4-Dinitrophenol	<0.73	F1	0.73	0.64	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Acenaphthylene	0.0075	J	0.036	0.0048	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Fluorene	0.0061	J	0.036	0.0051	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Phenanthrene	0.10		0.036	0.0050	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Anthracene	0.022	J	0.036	0.0060	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Carbazole	<0.18		0.18	0.090	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Fluoranthene	0.20		0.036	0.0067	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Pyrene	0.18		0.036	0.0072	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1
Benzo[a]anthracene	0.092		0.036	0.0049	mg/Kg	✱	02/22/22 06:30	02/23/22 18:34	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B14 (0-3)

Lab Sample ID: 500-212293-2

Date Collected: 02/14/22 11:53

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.10		0.036	0.0099	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
Bis(2-ethylhexyl) phthalate	0.082	J	0.18	0.066	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
Benzo[b]fluoranthene	0.16		0.036	0.0078	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
Benzo[k]fluoranthene	0.056		0.036	0.011	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
Benzo[a]pyrene	0.11		0.036	0.0070	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
Indeno[1,2,3-cd]pyrene	0.038	F1	0.036	0.0094	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
Dibenz(a,h)anthracene	0.012	J F1	0.036	0.0070	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
Benzo[g,h,i]perylene	0.038	F1	0.036	0.012	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	✳	02/22/22 06:30	02/23/22 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		31 - 166	02/22/22 06:30	02/23/22 18:34	1
Phenol-d5	90		30 - 153	02/22/22 06:30	02/23/22 18:34	1
Nitrobenzene-d5 (Surr)	81		37 - 147	02/22/22 06:30	02/23/22 18:34	1
2-Fluorobiphenyl (Surr)	93		43 - 145	02/22/22 06:30	02/23/22 18:34	1
2,4,6-Tribromophenol	130		31 - 143	02/22/22 06:30	02/23/22 18:34	1
Terphenyl-d14 (Surr)	118		42 - 157	02/22/22 06:30	02/23/22 18:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.21	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Arsenic	11		0.54	0.19	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Barium	63		0.54	0.062	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Beryllium	0.23		0.22	0.051	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Boron	4.0		2.7	0.25	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Cadmium	0.084	J B	0.11	0.019	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Calcium	9800	B	11	1.8	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Chromium	8.7	B	0.54	0.27	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Cobalt	7.5		0.27	0.071	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Copper	10		0.54	0.15	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Iron	15000	B	11	5.6	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Lead	23		0.27	0.13	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Magnesium	4800		5.4	2.7	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Manganese	360	B	0.54	0.078	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Nickel	10	B	0.54	0.16	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Potassium	420		27	9.6	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Silver	<0.27		0.27	0.070	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Sodium	120		54	8.0	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Thallium	<0.54		0.54	0.27	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Vanadium	27		0.27	0.064	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1
Zinc	97		1.1	0.48	mg/Kg	✳	02/25/22 09:04	02/26/22 01:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.050	mg/L		02/23/22 12:00	02/24/22 22:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 12:00	02/24/22 22:08	1
Boron	0.098	J	0.50	0.050	mg/L		02/23/22 12:00	02/24/22 22:08	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B14 (0-3)

Lab Sample ID: 500-212293-2

Date Collected: 02/14/22 11:53

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 12:00	02/24/22 22:08	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 12:00	02/24/22 22:08	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 12:00	02/24/22 22:08	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 12:00	02/24/22 22:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 12:00	02/24/22 22:08	1
Manganese	1.5		0.025	0.010	mg/L		02/23/22 12:00	02/24/22 22:08	1
Nickel	0.010	J	0.025	0.010	mg/L		02/23/22 12:00	02/24/22 22:08	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 12:00	02/24/22 22:08	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 12:00	02/24/22 22:08	1
Zinc	0.19	J	0.50	0.020	mg/L		02/23/22 12:00	02/24/22 22:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24		0.025	0.010	mg/L		02/23/22 09:13	02/24/22 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 12:00	02/24/22 18:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 12:00	02/24/22 18:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.019	0.0063	mg/Kg	☆	02/23/22 17:00	02/24/22 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			02/17/22 17:33	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

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Definitions/Glossary

Client: WSP USA Inc.

Job ID: 500-212293-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Glossary (Continued)

Abbreviation **These commonly used abbreviations may or may not be present in this report.**

RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

GC/MS VOA

Prep Batch: 643357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	5035	
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 643739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	8260B	643357
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	8260B	643357
MB 500-643739/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-643739/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-643739/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 643680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	3541	
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	3541	
MB 500-643680/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-643680/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-212293-2 MS	2615V2-114-B14 (0-3)	Total/NA	Solid	3541	
500-212293-2 MSD	2615V2-114-B14 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 643939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	8270D	643680
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	8270D	643680
MB 500-643680/1-A	Method Blank	Total/NA	Solid	8270D	643680
LCS 500-643680/2-A	Lab Control Sample	Total/NA	Solid	8270D	643680
500-212293-2 MS	2615V2-114-B14 (0-3)	Total/NA	Solid	8270D	643680
500-212293-2 MSD	2615V2-114-B14 (0-3)	Total/NA	Solid	8270D	643680

Metals

Leach Batch: 643686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	SPLP East	Solid	1312	
500-212293-2	2615V2-114-B14 (0-3)	SPLP East	Solid	1312	
LB 500-643686/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 643911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	TCLP	Solid	1311	
500-212293-2	2615V2-114-B14 (0-3)	TCLP	Solid	1311	
LB 500-643911/1-B	Method Blank	TCLP	Solid	1311	
LB 500-643911/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 644034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	SPLP East	Solid	3010A	643686
500-212293-2	2615V2-114-B14 (0-3)	SPLP East	Solid	3010A	643686
LB 500-643686/1-B	Method Blank	SPLP East	Solid	3010A	643686
LCS 500-644034/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Metals

Prep Batch: 644069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	TCLP	Solid	3010A	643911
500-212293-2	2615V2-114-B14 (0-3)	TCLP	Solid	3010A	643911
LB 500-643911/1-B	Method Blank	TCLP	Solid	3010A	643911
LCS 500-644069/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	TCLP	Solid	7470A	643911
500-212293-2	2615V2-114-B14 (0-3)	TCLP	Solid	7470A	643911
LB 500-643911/2-B	Method Blank	TCLP	Solid	7470A	643911
MB 500-644073/13-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-644073/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 644103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	7471B	
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	7471B	
MB 500-644103/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-644103/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 644302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	3050B	
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	3050B	
MB 500-644302/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644302/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-212293-1 MS	2615V2-114-B12 (0-3)	Total/NA	Solid	3050B	
500-212293-1 MSD	2615V2-114-B12 (0-3)	Total/NA	Solid	3050B	
500-212293-1 DU	2615V2-114-B12 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 644370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	TCLP	Solid	7470A	644073
500-212293-2	2615V2-114-B14 (0-3)	TCLP	Solid	7470A	644073
LB 500-643911/2-B	Method Blank	TCLP	Solid	7470A	644073
MB 500-644073/13-A	Method Blank	Total/NA	Solid	7470A	644073
LCS 500-644073/14-A	Lab Control Sample	Total/NA	Solid	7470A	644073

Analysis Batch: 644389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	7471B	644103
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	7471B	644103
MB 500-644103/12-A	Method Blank	Total/NA	Solid	7471B	644103
LCS 500-644103/13-A	Lab Control Sample	Total/NA	Solid	7471B	644103

Analysis Batch: 644485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	TCLP	Solid	6020A	644069
500-212293-2	2615V2-114-B14 (0-3)	TCLP	Solid	6020A	644069
LB 500-643911/1-B	Method Blank	TCLP	Solid	6020A	644069
LCS 500-644069/2-A	Lab Control Sample	Total/NA	Solid	6020A	644069

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Metals

Analysis Batch: 644508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	SPLP East	Solid	6010B	644034
500-212293-2	2615V2-114-B14 (0-3)	SPLP East	Solid	6010B	644034
LB 500-643686/1-B	Method Blank	SPLP East	Solid	6010B	644034
LCS 500-644034/2-A	Lab Control Sample	Total/NA	Solid	6010B	644034

Analysis Batch: 644517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	TCLP	Solid	6010B	644069
500-212293-2	2615V2-114-B14 (0-3)	TCLP	Solid	6010B	644069
LB 500-643911/1-B	Method Blank	TCLP	Solid	6010B	644069
LCS 500-644069/2-A	Lab Control Sample	Total/NA	Solid	6010B	644069

Analysis Batch: 644656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	6010B	644302
MB 500-644302/1-A	Method Blank	Total/NA	Solid	6010B	644302
LCS 500-644302/2-A	Lab Control Sample	Total/NA	Solid	6010B	644302
500-212293-1 MS	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302
500-212293-1 MSD	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302
500-212293-1 DU	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302

Analysis Batch: 644767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302
500-212293-1 MS	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302
500-212293-1 MSD	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302
500-212293-1 DU	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302

Analysis Batch: 644768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302
500-212293-1 MS	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302
500-212293-1 MSD	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302
500-212293-1 DU	2615V2-114-B12 (0-3)	Total/NA	Solid	6010B	644302

General Chemistry

Analysis Batch: 642890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	Moisture	
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 643084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212293-1	2615V2-114-B12 (0-3)	Total/NA	Solid	9045D	
500-212293-2	2615V2-114-B14 (0-3)	Total/NA	Solid	9045D	
LCS 500-643084/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-643084/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-212293-1 DU	2615V2-114-B12 (0-3)	Total/NA	Solid	9045D	

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Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-212293-1	2615V2-114-B12 (0-3)	121 *3	114	122	115
500-212293-2	2615V2-114-B14 (0-3)	109	111	117	105
LCS 500-643739/5	Lab Control Sample	89	105	107	106
LCS 500-643739/6	Lab Control Sample Dup	90	104	109	107
MB 500-643739/8	Method Blank	103	105	111	107

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-212293-1	2615V2-114-B12 (0-3)	100	96	80	92	122	116
500-212293-2	2615V2-114-B14 (0-3)	100	90	81	93	130	118
500-212293-2 MS	2615V2-114-B14 (0-3)	99	99	83	98	126	113
500-212293-2 MSD	2615V2-114-B14 (0-3)	98	100	80	93	120	109
LCS 500-643680/2-A	Lab Control Sample	106	109	96	109	114	102
MB 500-643680/1-A	Method Blank	112	113	95	108	116	114

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: MB 500-643739/8
Matrix: Solid
Analysis Batch: 643739

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/22/22 11:37	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/22/22 11:37	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/22/22 11:37	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/22/22 11:37	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/22/22 11:37	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/22/22 11:37	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/22/22 11:37	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/22/22 11:37	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/22/22 11:37	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/22/22 11:37	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:37	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/22/22 11:37	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/22/22 11:37	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/22/22 11:37	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/22/22 11:37	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:37	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/22/22 11:37	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:37	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/22/22 11:37	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/22/22 11:37	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/22/22 11:37	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/22/22 11:37	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/22/22 11:37	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/22/22 11:37	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/22/22 11:37	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/22/22 11:37	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/22/22 11:37	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/22/22 11:37	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/22/22 11:37	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/22/22 11:37	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/22/22 11:37	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/22/22 11:37	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/22/22 11:37	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/22/22 11:37	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/22/22 11:37	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/22/22 11:37	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/22/22 11:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		75 - 131		02/22/22 11:37	1
Dibromofluoromethane	105		75 - 126		02/22/22 11:37	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		02/22/22 11:37	1
Toluene-d8 (Surr)	107		75 - 124		02/22/22 11:37	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: LCS 500-643739/5

Matrix: Solid

Analysis Batch: 643739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0425		mg/Kg		85	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0451		mg/Kg		90	67 - 129
Bromoform	0.0500	0.0481		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0776	*+	mg/Kg		155	70 - 130
2-Butanone (MEK)	0.0500	0.0370		mg/Kg		74	47 - 138
Carbon disulfide	0.0500	0.0438		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0466		mg/Kg		93	75 - 125
Chlorobenzene	0.0500	0.0435		mg/Kg		87	50 - 150
Chloroethane	0.0500	0.0576		mg/Kg		115	75 - 125
Chloroform	0.0500	0.0442		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0303	*-	mg/Kg		61	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0431		mg/Kg		86	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0425		mg/Kg		85	70 - 125
Dibromochloromethane	0.0500	0.0465		mg/Kg		93	69 - 125
1,1-Dichloroethane	0.0500	0.0398		mg/Kg		80	70 - 125
1,2-Dichloroethane	0.0500	0.0464		mg/Kg		93	70 - 130
1,1-Dichloroethene	0.0500	0.0463		mg/Kg		93	70 - 120
1,2-Dichloropropane	0.0500	0.0403		mg/Kg		81	70 - 125
Ethylbenzene	0.0500	0.0440		mg/Kg		88	61 - 136
2-Hexanone	0.0500	0.0344		mg/Kg		69	48 - 146
Methylene Chloride	0.0500	0.0427		mg/Kg		85	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0353		mg/Kg		71	50 - 148
Methyl tert-butyl ether	0.0500	0.0442		mg/Kg		88	50 - 140
Styrene	0.0500	0.0464		mg/Kg		93	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0422		mg/Kg		84	70 - 122
Tetrachloroethene	0.0500	0.0451		mg/Kg		90	70 - 124
Toluene	0.0500	0.0450		mg/Kg		90	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0438		mg/Kg		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 128
1,1,2-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0445		mg/Kg		89	70 - 125
Vinyl acetate	0.0500	0.0325		mg/Kg		65	40 - 153
Vinyl chloride	0.0500	0.0409		mg/Kg		82	70 - 125
Xylenes, Total	0.100	0.0917		mg/Kg		92	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	105		75 - 126
1,2-Dichloroethane-d4 (Surr)	107		70 - 134
Toluene-d8 (Surr)	106		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: LCSD 500-643739/6
Matrix: Solid
Analysis Batch: 643739

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0517		mg/Kg		103	40 - 150	19	30
Benzene	0.0500	0.0457		mg/Kg		91	70 - 125	6	30
Bromodichloromethane	0.0500	0.0486		mg/Kg		97	67 - 129	8	30
Bromoform	0.0500	0.0547		mg/Kg		109	68 - 136	13	30
Bromomethane	0.0500	0.0888	*+	mg/Kg		178	70 - 130	13	30
2-Butanone (MEK)	0.0500	0.0455		mg/Kg		91	47 - 138	21	30
Carbon disulfide	0.0500	0.0465		mg/Kg		93	70 - 129	6	30
Carbon tetrachloride	0.0500	0.0499		mg/Kg		100	75 - 125	7	30
Chlorobenzene	0.0500	0.0469		mg/Kg		94	50 - 150	8	30
Chloroethane	0.0500	0.0549		mg/Kg		110	75 - 125	5	30
Chloroform	0.0500	0.0474		mg/Kg		95	57 - 135	7	30
Chloromethane	0.0500	0.0319	*-	mg/Kg		64	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0466		mg/Kg		93	70 - 125	8	30
cis-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 125	9	30
Dibromochloromethane	0.0500	0.0520		mg/Kg		104	69 - 125	11	30
1,1-Dichloroethane	0.0500	0.0422		mg/Kg		84	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0494		mg/Kg		99	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120	7	30
1,2-Dichloropropane	0.0500	0.0422		mg/Kg		84	70 - 125	5	30
Ethylbenzene	0.0500	0.0475		mg/Kg		95	61 - 136	8	30
2-Hexanone	0.0500	0.0472	*1	mg/Kg		94	48 - 146	31	30
Methylene Chloride	0.0500	0.0454		mg/Kg		91	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0452		mg/Kg		90	50 - 148	25	30
Methyl tert-butyl ether	0.0500	0.0493		mg/Kg		99	50 - 140	11	30
Styrene	0.0500	0.0500		mg/Kg		100	70 - 125	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0479		mg/Kg		96	70 - 122	13	30
Tetrachloroethene	0.0500	0.0485		mg/Kg		97	70 - 124	7	30
Toluene	0.0500	0.0477		mg/Kg		95	70 - 125	6	30
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 125	6	30
trans-1,3-Dichloropropene	0.0500	0.0485		mg/Kg		97	70 - 125	10	30
1,1,1-Trichloroethane	0.0500	0.0506		mg/Kg		101	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0532		mg/Kg		106	70 - 125	11	30
Trichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125	7	30
Vinyl acetate	0.0500	0.0417		mg/Kg		83	40 - 153	25	30
Vinyl chloride	0.0500	0.0425		mg/Kg		85	70 - 125	4	30
Xylenes, Total	0.100	0.0986		mg/Kg		99	53 - 147	7	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		75 - 131
Dibromofluoromethane	104		75 - 126
1,2-Dichloroethane-d4 (Surr)	109		70 - 134
Toluene-d8 (Surr)	107		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: MB 500-643680/1-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643680

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/22/22 06:30	02/23/22 10:00	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: MB 500-643680/1-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/22/22 06:30	02/23/22 10:00	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/22/22 06:30	02/23/22 10:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112		31 - 166	02/22/22 06:30	02/23/22 10:00	1
Phenol-d5	113		30 - 153	02/22/22 06:30	02/23/22 10:00	1
Nitrobenzene-d5 (Surr)	95		37 - 147	02/22/22 06:30	02/23/22 10:00	1
2-Fluorobiphenyl (Surr)	108		43 - 145	02/22/22 06:30	02/23/22 10:00	1
2,4,6-Tribromophenol	116		31 - 143	02/22/22 06:30	02/23/22 10:00	1
Terphenyl-d14 (Surr)	114		42 - 157	02/22/22 06:30	02/23/22 10:00	1

Lab Sample ID: LCS 500-643680/2-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.35		mg/Kg		101	56 - 122
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		83	55 - 111
1,3-Dichlorobenzene	1.33	1.22		mg/Kg		91	65 - 124
1,4-Dichlorobenzene	1.33	1.22		mg/Kg		92	61 - 110
1,2-Dichlorobenzene	1.33	1.24		mg/Kg		93	62 - 110
2-Methylphenol	1.33	1.31		mg/Kg		99	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	0.884		mg/Kg		66	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.19		mg/Kg		89	56 - 118
Hexachloroethane	1.33	1.13		mg/Kg		85	60 - 114
2-Chlorophenol	1.33	1.38		mg/Kg		103	64 - 110
Nitrobenzene	1.33	1.20		mg/Kg		90	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.24		mg/Kg		93	60 - 112
1,2,4-Trichlorobenzene	1.33	1.30		mg/Kg		98	66 - 117
Isophorone	1.33	1.19		mg/Kg		90	55 - 110
2,4-Dimethylphenol	1.33	0.848		mg/Kg		64	60 - 110
Hexachlorobutadiene	1.33	1.45		mg/Kg		109	56 - 120
Naphthalene	1.33	1.31		mg/Kg		98	63 - 110
2,4-Dichlorophenol	1.33	1.43		mg/Kg		107	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: LCS 500-643680/2-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	0.752		mg/Kg		56	30 - 150
2,4,6-Trichlorophenol	1.33	1.30		mg/Kg		97	57 - 120
2,4,5-Trichlorophenol	1.33	1.45		mg/Kg		109	50 - 120
Hexachlorocyclopentadiene	1.33	0.559	J	mg/Kg		42	10 - 133
2-Methylnaphthalene	1.33	1.44		mg/Kg		108	69 - 112
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
2-Chloronaphthalene	1.33	1.33		mg/Kg		100	69 - 114
4-Chloro-3-methylphenol	1.33	1.30		mg/Kg		98	65 - 122
2,6-Dinitrotoluene	1.33	1.39		mg/Kg		104	70 - 123
2-Nitrophenol	1.33	1.37		mg/Kg		102	60 - 120
3-Nitroaniline	1.33	0.673		mg/Kg		51	40 - 122
Dimethyl phthalate	1.33	1.35		mg/Kg		101	69 - 116
2,4-Dinitrophenol	2.67	2.52		mg/Kg		94	10 - 100
Acenaphthylene	1.33	1.39		mg/Kg		104	68 - 120
2,4-Dinitrotoluene	1.33	1.38		mg/Kg		104	69 - 124
Acenaphthene	1.33	1.34		mg/Kg		101	65 - 124
Dibenzofuran	1.33	1.38		mg/Kg		103	66 - 115
4-Nitrophenol	2.67	2.34		mg/Kg		88	30 - 122
Fluorene	1.33	1.32		mg/Kg		99	62 - 120
4-Nitroaniline	1.33	1.13		mg/Kg		85	60 - 160
4-Bromophenyl phenyl ether	1.33	1.45		mg/Kg		109	68 - 118
Hexachlorobenzene	1.33	1.59		mg/Kg		120	63 - 124
Diethyl phthalate	1.33	1.53		mg/Kg		115	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.40		mg/Kg		105	62 - 119
Pentachlorophenol	2.67	2.39		mg/Kg		89	13 - 112
N-Nitrosodiphenylamine	1.33	1.33		mg/Kg		100	65 - 112
4,6-Dinitro-2-methylphenol	2.67	2.70		mg/Kg		101	10 - 110
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Anthracene	1.33	1.35		mg/Kg		102	70 - 114
Carbazole	1.33	1.38		mg/Kg		104	65 - 142
Di-n-butyl phthalate	1.33	1.40		mg/Kg		105	65 - 120
Fluoranthene	1.33	1.38		mg/Kg		104	62 - 120
Pyrene	1.33	1.26		mg/Kg		94	61 - 128
Butyl benzyl phthalate	1.33	1.20		mg/Kg		90	71 - 129
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Chrysene	1.33	1.28		mg/Kg		96	63 - 120
3,3'-Dichlorobenzidine	1.33	0.866		mg/Kg		65	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.27		mg/Kg		96	72 - 131
Di-n-octyl phthalate	1.33	1.39		mg/Kg		104	68 - 134
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		101	68 - 127
Benzo[a]pyrene	1.33	1.45		mg/Kg		109	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	68 - 130
Dibenz(a,h)anthracene	1.33	1.41		mg/Kg		106	64 - 131
Benzo[g,h,i]perylene	1.33	1.38		mg/Kg		104	72 - 131
3 & 4 Methylphenol	1.33	1.43		mg/Kg		107	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: LCS 500-643680/2-A
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643680

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	106		31 - 166
Phenol-d5	109		30 - 153
Nitrobenzene-d5 (Surr)	96		37 - 147
2-Fluorobiphenyl (Surr)	109		43 - 145
2,4,6-Tribromophenol	114		31 - 143
Terphenyl-d14 (Surr)	102		42 - 157

Lab Sample ID: 500-212293-2 MS
Matrix: Solid
Analysis Batch: 643939

Client Sample ID: 2615V2-114-B14 (0-3)
Prep Type: Total/NA
Prep Batch: 643680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Phenol	<0.18		1.51	1.63		mg/Kg	☼	108	56 - 122
Bis(2-chloroethyl)ether	<0.18	F2	1.51	0.993		mg/Kg	☼	66	55 - 111
1,3-Dichlorobenzene	<0.18	F1	1.51	0.882	F1	mg/Kg	☼	58	60 - 110
1,4-Dichlorobenzene	<0.18	F1	1.51	0.904	F1	mg/Kg	☼	60	61 - 110
1,2-Dichlorobenzene	<0.18		1.51	0.962		mg/Kg	☼	64	62 - 110
2-Methylphenol	<0.18		1.51	1.27		mg/Kg	☼	84	60 - 120
2,2'-oxybis[1-chloropropane]	<0.18		1.51	0.759		mg/Kg	☼	50	40 - 124
N-Nitrosodi-n-propylamine	<0.073		1.51	1.15		mg/Kg	☼	76	56 - 118
Hexachloroethane	<0.18	F1	1.51	0.503	F1	mg/Kg	☼	33	60 - 114
2-Chlorophenol	<0.18		1.51	1.36		mg/Kg	☼	90	64 - 110
Nitrobenzene	<0.036		1.51	1.15		mg/Kg	☼	76	60 - 116
Bis(2-chloroethoxy)methane	<0.18		1.51	1.27		mg/Kg	☼	84	60 - 112
1,2,4-Trichlorobenzene	<0.18		1.51	1.16		mg/Kg	☼	77	66 - 117
Isophorone	<0.18		1.51	1.21		mg/Kg	☼	80	55 - 110
2,4-Dimethylphenol	<0.36	F1 F2	1.51	0.579	F1	mg/Kg	☼	38	60 - 110
Hexachlorobutadiene	<0.18		1.51	1.21		mg/Kg	☼	80	56 - 120
Naphthalene	0.0069	J	1.51	1.21		mg/Kg	☼	80	63 - 110
2,4-Dichlorophenol	<0.36		1.51	1.50		mg/Kg	☼	99	58 - 120
4-Chloroaniline	<0.73		1.51	1.05		mg/Kg	☼	70	30 - 150
2,4,6-Trichlorophenol	<0.36		1.51	1.32		mg/Kg	☼	87	57 - 120
2,4,5-Trichlorophenol	<0.36	F1	1.51	1.88	F1	mg/Kg	☼	125	50 - 120
Hexachlorocyclopentadiene	<0.73	F1	1.51	<0.76	F1	mg/Kg	☼	0	10 - 133
2-Methylnaphthalene	<0.073		1.51	1.46		mg/Kg	☼	97	69 - 112
2-Nitroaniline	<0.18		1.51	1.30		mg/Kg	☼	86	57 - 124
2-Chloronaphthalene	<0.18		1.51	1.36		mg/Kg	☼	90	69 - 114
4-Chloro-3-methylphenol	<0.36		1.51	1.40		mg/Kg	☼	93	65 - 122
2,6-Dinitrotoluene	<0.18		1.51	1.45		mg/Kg	☼	96	70 - 123
2-Nitrophenol	<0.36		1.51	1.38		mg/Kg	☼	91	60 - 120
3-Nitroaniline	<0.36		1.51	1.34		mg/Kg	☼	89	40 - 122
Dimethyl phthalate	<0.18		1.51	1.46		mg/Kg	☼	97	69 - 116
2,4-Dinitrophenol	<0.73	F1	3.02	<0.76	F1	mg/Kg	☼	0	10 - 100
Acenaphthylene	0.0075	J	1.51	1.46		mg/Kg	☼	96	68 - 120
2,4-Dinitrotoluene	<0.18		1.51	1.39		mg/Kg	☼	92	69 - 124
Acenaphthene	<0.036		1.51	1.43		mg/Kg	☼	95	65 - 124
Dibenzofuran	<0.18		1.51	1.49		mg/Kg	☼	98	66 - 115
4-Nitrophenol	<0.73		3.02	2.63		mg/Kg	☼	87	30 - 122

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: 500-212293-2 MS

Matrix: Solid

Analysis Batch: 643939

Client Sample ID: 2615V2-114-B14 (0-3)

Prep Type: Total/NA

Prep Batch: 643680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	0.0061	J	1.51	1.42		mg/Kg	☼	94	62 - 120
4-Nitroaniline	<0.36		1.51	1.31		mg/Kg	☼	87	60 - 160
4-Bromophenyl phenyl ether	<0.18		1.51	1.52		mg/Kg	☼	101	68 - 118
Hexachlorobenzene	<0.073		1.51	1.68		mg/Kg	☼	111	63 - 124
Diethyl phthalate	<0.18		1.51	1.67		mg/Kg	☼	110	58 - 120
4-Chlorophenyl phenyl ether	<0.18		1.51	1.49		mg/Kg	☼	98	62 - 119
Pentachlorophenol	<0.73		3.02	2.98		mg/Kg	☼	99	13 - 112
N-Nitrosodiphenylamine	<0.18		1.51	1.35		mg/Kg	☼	89	65 - 112
4,6-Dinitro-2-methylphenol	<0.73		3.02	0.640	J	mg/Kg	☼	21	10 - 110
Phenanthrene	0.10		1.51	1.55		mg/Kg	☼	96	62 - 120
Anthracene	0.022	J	1.51	1.48		mg/Kg	☼	96	70 - 114
Carbazole	<0.18		1.51	1.52		mg/Kg	☼	101	65 - 142
Di-n-butyl phthalate	<0.18		1.51	1.50		mg/Kg	☼	100	65 - 120
Fluoranthene	0.20		1.51	1.71		mg/Kg	☼	100	62 - 120
Pyrene	0.18		1.51	1.73		mg/Kg	☼	103	61 - 128
Butyl benzyl phthalate	<0.18		1.51	1.49		mg/Kg	☼	99	71 - 129
Benzo[a]anthracene	0.092		1.51	1.40		mg/Kg	☼	86	67 - 122
Chrysene	0.10		1.51	1.44		mg/Kg	☼	88	63 - 120
3,3'-Dichlorobenzidine	<0.18		1.51	0.602		mg/Kg	☼	40	35 - 128
Bis(2-ethylhexyl) phthalate	0.082	J	1.51	1.61		mg/Kg	☼	101	72 - 131
Di-n-octyl phthalate	<0.18		1.51	1.38		mg/Kg	☼	91	68 - 134
Benzo[b]fluoranthene	0.16		1.51	1.85		mg/Kg	☼	112	69 - 129
Benzo[k]fluoranthene	0.056		1.51	1.80		mg/Kg	☼	116	68 - 127
Benzo[a]pyrene	0.11		1.51	1.67		mg/Kg	☼	103	65 - 133
Indeno[1,2,3-cd]pyrene	0.038	F1	1.51	0.843	F1	mg/Kg	☼	53	68 - 130
Dibenz(a,h)anthracene	0.012	J F1	1.51	0.856	F1	mg/Kg	☼	56	64 - 131
Benzo[g,h,i]perylene	0.038	F1	1.51	0.712	F1	mg/Kg	☼	45	72 - 131
3 & 4 Methylphenol	<0.18		1.51	1.37		mg/Kg	☼	91	57 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol	99		31 - 166
Phenol-d5	99		30 - 153
Nitrobenzene-d5 (Surr)	83		37 - 147
2-Fluorobiphenyl (Surr)	98		43 - 145
2,4,6-Tribromophenol	126		31 - 143
Terphenyl-d14 (Surr)	113		42 - 157

Lab Sample ID: 500-212293-2 MSD

Matrix: Solid

Analysis Batch: 643939

Client Sample ID: 2615V2-114-B14 (0-3)

Prep Type: Total/NA

Prep Batch: 643680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	<0.18		1.51	1.72		mg/Kg	☼	114	56 - 122	5	30
Bis(2-chloroethyl)ether	<0.18	F2	1.51	1.39	F2	mg/Kg	☼	92	55 - 111	33	30
1,3-Dichlorobenzene	<0.18	F1	1.51	0.864	F1	mg/Kg	☼	57	60 - 110	2	30
1,4-Dichlorobenzene	<0.18	F1	1.51	0.880	F1	mg/Kg	☼	58	61 - 110	3	30
1,2-Dichlorobenzene	<0.18		1.51	0.938		mg/Kg	☼	62	62 - 110	3	30
2-Methylphenol	<0.18		1.51	1.26		mg/Kg	☼	83	60 - 120	1	30

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QC Sample Results

Client: WSP USA Inc.

Job ID: 500-212293-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

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

Lab Sample ID: 500-212293-2 MSD

Client Sample ID: 2615V2-114-B14 (0-3)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 643939

Prep Batch: 643680

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2,2'-oxybis[1-chloropropane]	<0.18		1.51	0.763		mg/Kg	☼	51	40 - 124	1	30
N-Nitrosodi-n-propylamine	<0.073		1.51	1.15		mg/Kg	☼	76	56 - 118	0	30
Hexachloroethane	<0.18	F1	1.51	0.485	F1	mg/Kg	☼	32	60 - 114	4	30
2-Chlorophenol	<0.18		1.51	1.35		mg/Kg	☼	90	64 - 110	0	30
Nitrobenzene	<0.036		1.51	1.12		mg/Kg	☼	74	60 - 116	2	30
Bis(2-chloroethoxy)methane	<0.18		1.51	1.23		mg/Kg	☼	82	60 - 112	3	30
1,2,4-Trichlorobenzene	<0.18		1.51	1.11		mg/Kg	☼	74	66 - 117	4	30
Isophorone	<0.18		1.51	1.18		mg/Kg	☼	78	55 - 110	3	30
2,4-Dimethylphenol	<0.36	F1 F2	1.51	1.19	F2	mg/Kg	☼	79	60 - 110	69	30
Hexachlorobutadiene	<0.18		1.51	0.992		mg/Kg	☼	66	56 - 120	20	30
Naphthalene	0.0069	J	1.51	1.16		mg/Kg	☼	77	63 - 110	4	30
2,4-Dichlorophenol	<0.36		1.51	1.46		mg/Kg	☼	97	58 - 120	3	30
4-Chloroaniline	<0.73		1.51	1.04		mg/Kg	☼	69	30 - 150	1	30
2,4,6-Trichlorophenol	<0.36		1.51	1.37		mg/Kg	☼	91	57 - 120	4	30
2,4,5-Trichlorophenol	<0.36	F1	1.51	1.79		mg/Kg	☼	119	50 - 120	5	30
Hexachlorocyclopentadiene	<0.73	F1	1.51	<0.76	F1	mg/Kg	☼	0	10 - 133	NC	30
2-Methylnaphthalene	<0.073		1.51	1.37		mg/Kg	☼	90	69 - 112	7	30
2-Nitroaniline	<0.18		1.51	1.25		mg/Kg	☼	83	57 - 124	4	30
2-Chloronaphthalene	<0.18		1.51	1.29		mg/Kg	☼	86	69 - 114	5	30
4-Chloro-3-methylphenol	<0.36		1.51	1.35		mg/Kg	☼	90	65 - 122	3	30
2,6-Dinitrotoluene	<0.18		1.51	1.37		mg/Kg	☼	91	70 - 123	6	30
2-Nitrophenol	<0.36		1.51	1.31		mg/Kg	☼	87	60 - 120	5	30
3-Nitroaniline	<0.36		1.51	1.31		mg/Kg	☼	87	40 - 122	3	30
Dimethyl phthalate	<0.18		1.51	1.40		mg/Kg	☼	93	69 - 116	4	30
2,4-Dinitrophenol	<0.73	F1	3.02	<0.76	F1	mg/Kg	☼	0	10 - 100	NC	30
Acenaphthylene	0.0075	J	1.51	1.41		mg/Kg	☼	93	68 - 120	4	30
2,4-Dinitrotoluene	<0.18		1.51	1.35		mg/Kg	☼	89	69 - 124	3	30
Acenaphthene	<0.036		1.51	1.37		mg/Kg	☼	91	65 - 124	4	30
Dibenzofuran	<0.18		1.51	1.42		mg/Kg	☼	94	66 - 115	5	30
4-Nitrophenol	<0.73		3.02	3.19		mg/Kg	☼	106	30 - 122	19	30
Fluorene	0.0061	J	1.51	1.38		mg/Kg	☼	91	62 - 120	2	30
4-Nitroaniline	<0.36		1.51	1.28		mg/Kg	☼	85	60 - 160	2	30
4-Bromophenyl phenyl ether	<0.18		1.51	1.46		mg/Kg	☼	96	68 - 118	5	30
Hexachlorobenzene	<0.073		1.51	1.63		mg/Kg	☼	108	63 - 124	2	30
Diethyl phthalate	<0.18		1.51	1.60		mg/Kg	☼	106	58 - 120	4	30
4-Chlorophenyl phenyl ether	<0.18		1.51	1.42		mg/Kg	☼	94	62 - 119	4	30
Pentachlorophenol	<0.73		3.02	2.34		mg/Kg	☼	77	13 - 112	24	30
N-Nitrosodiphenylamine	<0.18		1.51	1.28		mg/Kg	☼	85	65 - 112	5	30
4,6-Dinitro-2-methylphenol	<0.73		3.02	0.520	J	mg/Kg	☼	17	10 - 110	21	30
Phenanthrene	0.10		1.51	1.63		mg/Kg	☼	101	62 - 120	5	30
Anthracene	0.022	J	1.51	1.46		mg/Kg	☼	95	70 - 114	1	30
Carbazole	<0.18		1.51	1.49		mg/Kg	☼	99	65 - 142	2	30
Di-n-butyl phthalate	<0.18		1.51	1.48		mg/Kg	☼	98	65 - 120	1	30
Fluoranthene	0.20		1.51	1.80		mg/Kg	☼	106	62 - 120	5	30
Pyrene	0.18		1.51	1.79		mg/Kg	☼	106	61 - 128	3	30
Butyl benzyl phthalate	<0.18		1.51	1.44		mg/Kg	☼	96	71 - 129	3	30
Benzo[a]anthracene	0.092		1.51	1.42		mg/Kg	☼	88	67 - 122	2	30
Chrysene	0.10		1.51	1.45		mg/Kg	☼	89	63 - 120	1	30
3,3'-Dichlorobenzidine	<0.18		1.51	0.620		mg/Kg	☼	41	35 - 128	3	30

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: 500-212293-2 MSD

Client Sample ID: 2615V2-114-B14 (0-3)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 643939

Prep Batch: 643680

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Bis(2-ethylhexyl) phthalate	0.082	J	1.51	1.57		mg/Kg	⊛	98	72 - 131	2	30
Di-n-octyl phthalate	<0.18		1.51	1.36		mg/Kg	⊛	90	68 - 134	2	30
Benzo[b]fluoranthene	0.16		1.51	1.79		mg/Kg	⊛	108	69 - 129	3	30
Benzo[k]fluoranthene	0.056		1.51	1.82		mg/Kg	⊛	117	68 - 127	1	30
Benzo[a]pyrene	0.11		1.51	1.61		mg/Kg	⊛	100	65 - 133	3	30
Indeno[1,2,3-cd]pyrene	0.038	F1	1.51	0.789	F1	mg/Kg	⊛	50	68 - 130	7	30
Dibenz(a,h)anthracene	0.012	J F1	1.51	0.820	F1	mg/Kg	⊛	54	64 - 131	4	30
Benzo[g,h,i]perylene	0.038	F1	1.51	0.677	F1	mg/Kg	⊛	42	72 - 131	5	30
3 & 4 Methylphenol	<0.18		1.51	1.40		mg/Kg	⊛	93	57 - 120	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	98		31 - 166
Phenol-d5	100		30 - 153
Nitrobenzene-d5 (Surr)	80		37 - 147
2-Fluorobiphenyl (Surr)	93		43 - 145
2,4,6-Tribromophenol	120		31 - 143
Terphenyl-d14 (Surr)	109		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-644034/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 644508

Prep Batch: 644034

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Manganese	0.500	0.464		mg/L		93	80 - 120	

Lab Sample ID: LCS 500-644069/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 644517

Prep Batch: 644069

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Barium	0.500	0.514		mg/L		103	80 - 120	
Beryllium	0.0500	0.0475		mg/L		95	80 - 120	
Boron	1.00	0.910		mg/L		91	80 - 120	
Cadmium	0.0500	0.0510		mg/L		102	80 - 120	
Chromium	0.200	0.198		mg/L		99	80 - 120	
Cobalt	0.500	0.518		mg/L		104	80 - 120	
Iron	1.00	1.04		mg/L		104	80 - 120	
Lead	0.100	0.100		mg/L		100	80 - 120	
Manganese	0.500	0.485		mg/L		97	80 - 120	
Nickel	0.500	0.514		mg/L		103	80 - 120	
Selenium	0.100	0.105		mg/L		105	80 - 120	
Silver	0.0500	0.0527		mg/L		105	80 - 120	
Zinc	0.500	0.563		mg/L		113	80 - 120	

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: MB 500-644302/1-A
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Barium	<1.0		1.0	0.11	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Boron	<5.0		5.0	0.47	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Cadmium	0.0588	J	0.20	0.036	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Calcium	4.63	J	20	3.4	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Chromium	1.39		1.0	0.50	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Copper	<1.0		1.0	0.28	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Iron	18.7	J	20	10	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Lead	<0.50		0.50	0.23	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Magnesium	<10		10	5.0	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Manganese	0.590	J	1.0	0.15	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Nickel	0.416	J	1.0	0.29	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Potassium	<50		50	18	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Silver	<0.50		0.50	0.13	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Sodium	<100		100	15	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/25/22 09:04	02/26/22 00:39	1

Lab Sample ID: LCS 500-644302/2-A
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.5		mg/Kg		91	80 - 120
Arsenic	10.0	8.46		mg/Kg		85	80 - 120
Barium	200	186		mg/Kg		93	80 - 120
Beryllium	5.00	4.64		mg/Kg		93	80 - 120
Boron	100	82.5		mg/Kg		83	80 - 120
Cadmium	5.00	4.46		mg/Kg		89	80 - 120
Calcium	1000	910		mg/Kg		91	80 - 120
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	45.8		mg/Kg		92	80 - 120
Copper	25.0	23.7		mg/Kg		95	80 - 120
Iron	100	93.4		mg/Kg		93	80 - 120
Lead	10.0	8.92		mg/Kg		89	80 - 120
Magnesium	1000	877		mg/Kg		88	80 - 120
Manganese	50.0	46.7		mg/Kg		93	80 - 120
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Potassium	1000	884		mg/Kg		88	80 - 120
Selenium	10.0	8.05		mg/Kg		80	80 - 120
Silver	5.00	4.47		mg/Kg		89	80 - 120
Sodium	1000	896		mg/Kg		90	80 - 120
Thallium	10.0	9.10		mg/Kg		91	80 - 120
Vanadium	50.0	45.6		mg/Kg		91	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: LCS 500-644302/2-A
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	50.0	46.0		mg/Kg		92	80 - 120

Lab Sample ID: 500-212293-1 MS
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.68	J F1	27.4	3.94	F1	mg/Kg	⊛	12	75 - 125
Arsenic	7.4		5.48	12.4		mg/Kg	⊛	91	75 - 125
Barium	60		110	161		mg/Kg	⊛	92	75 - 125
Beryllium	0.72		2.74	3.20		mg/Kg	⊛	90	75 - 125
Boron	14	F1	54.8	56.6		mg/Kg	⊛	77	75 - 125
Cadmium	0.13	B	2.74	2.23		mg/Kg	⊛	77	75 - 125
Chromium	18	B F1	11.0	33.7	F1	mg/Kg	⊛	146	75 - 125
Cobalt	12		27.4	41.3		mg/Kg	⊛	108	75 - 125
Copper	33		13.7	43.8		mg/Kg	⊛	77	75 - 125
Iron	19000	B	54.8	22500	4	mg/Kg	⊛	6646	75 - 125
Magnesium	23000		548	24100	4	mg/Kg	⊛	262	75 - 125
Manganese	420	B	27.4	476	4	mg/Kg	⊛	207	75 - 125
Nickel	33	B	27.4	63.2		mg/Kg	⊛	109	75 - 125
Potassium	2600		548	4490	4	mg/Kg	⊛	336	75 - 125
Selenium	0.42	J F1	5.48	3.83	F1	mg/Kg	⊛	62	75 - 125
Silver	<0.27		2.74	2.33		mg/Kg	⊛	85	75 - 125
Sodium	180		548	674		mg/Kg	⊛	91	75 - 125
Thallium	<0.54		5.48	4.46		mg/Kg	⊛	81	75 - 125
Vanadium	20		27.4	46.4		mg/Kg	⊛	98	75 - 125
Zinc	78	F1	27.4	90.6	F1	mg/Kg	⊛	47	75 - 125

Lab Sample ID: 500-212293-1 MS
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	36	F2	5.48	32.3	4	mg/Kg	⊛	-69	75 - 125

Lab Sample ID: 500-212293-1 MS
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	54000	B	548	55100	4	mg/Kg	⊛	174	75 - 125

Lab Sample ID: 500-212293-1 MSD
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	0.68	J F1	27.8	4.20	F1	mg/Kg	⊛	13	75 - 125	6	20
Arsenic	7.4		5.56	12.2		mg/Kg	⊛	86	75 - 125	2	20
Barium	60		111	169		mg/Kg	⊛	98	75 - 125	5	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: 500-212293-1 MSD
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Beryllium	0.72		2.78	3.31		mg/Kg	⊛	93	75 - 125	4	20	
Boron	14	F1	55.6	55.2	F1	mg/Kg	⊛	73	75 - 125	3	20	
Cadmium	0.13	B	2.78	2.32		mg/Kg	⊛	79	75 - 125	4	20	
Chromium	18	B F1	11.1	28.9		mg/Kg	⊛	101	75 - 125	15	20	
Cobalt	12		27.8	40.0		mg/Kg	⊛	102	75 - 125	3	20	
Copper	33		13.9	48.5		mg/Kg	⊛	110	75 - 125	10	20	
Iron	19000	B	55.6	20300	4	mg/Kg	⊛	2729	75 - 125	10	20	
Magnesium	23000		556	22900	4	mg/Kg	⊛	54	75 - 125	5	20	
Manganese	420	B	27.8	493	4	mg/Kg	⊛	265	75 - 125	3	20	
Nickel	33	B	27.8	62.6		mg/Kg	⊛	105	75 - 125	1	20	
Potassium	2600		556	4190	4	mg/Kg	⊛	277	75 - 125	7	20	
Selenium	0.42	J F1	5.56	3.81	F1	mg/Kg	⊛	61	75 - 125	1	20	
Silver	<0.27		2.78	2.36		mg/Kg	⊛	85	75 - 125	2	20	
Sodium	180		556	676		mg/Kg	⊛	90	75 - 125	0	20	
Thallium	<0.54		5.56	4.92		mg/Kg	⊛	89	75 - 125	10	20	
Vanadium	20		27.8	44.8		mg/Kg	⊛	91	75 - 125	3	20	
Zinc	78	F1	27.8	111		mg/Kg	⊛	120	75 - 125	20	20	

Lab Sample ID: 500-212293-1 MSD
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Lead	36	F2	5.56	50.8	4 F2	mg/Kg	⊛	264	75 - 125	44	20	

Lab Sample ID: 500-212293-1 MSD
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Calcium	54000	B	556	55000	4	mg/Kg	⊛	152	75 - 125	0	20	

Lab Sample ID: 500-212293-1 DU
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	
	Result	Qualifier		Result				Qualifier	Limit
Antimony	0.68	J F1	0.482	J F5	mg/Kg	⊛	35	20	
Arsenic	7.4		8.12		mg/Kg	⊛	9	20	
Barium	60		49.2		mg/Kg	⊛	20	20	
Beryllium	0.72		0.671		mg/Kg	⊛	7	20	
Boron	14	F1	14.3		mg/Kg	⊛	1	20	
Cadmium	0.13	B	<0.11		mg/Kg	⊛	NC	20	
Chromium	18	B F1	18.2		mg/Kg	⊛	2	20	
Cobalt	12		12.9		mg/Kg	⊛	9	20	
Copper	33		30.6		mg/Kg	⊛	8	20	
Iron	19000	B	20900		mg/Kg	⊛	11	20	
Magnesium	23000		24000		mg/Kg	⊛	6	20	
Manganese	420	B	353		mg/Kg	⊛	17	20	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

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

Lab Sample ID: 500-212293-1 DU
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Nickel	33	B	34.5		mg/Kg	⊛	4	20
Potassium	2600		2860		mg/Kg	⊛	8	20
Selenium	0.42	J F1	<0.56		mg/Kg	⊛	NC	20
Silver	<0.27		<0.28		mg/Kg	⊛	NC	20
Sodium	180		171		mg/Kg	⊛	4	20
Thallium	<0.54		<0.56		mg/Kg	⊛	NC	20
Vanadium	20		19.5		mg/Kg	⊛	0.08	20
Zinc	78	F1	55.6	F3	mg/Kg	⊛	33	20

Lab Sample ID: 500-212293-1 DU
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lead	36	F2	16.0	F3	mg/Kg	⊛	77	20

Lab Sample ID: 500-212293-1 DU
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	54000	B	55100		mg/Kg	⊛	2	20

Lab Sample ID: LB 500-643911/1-B
Matrix: Solid
Analysis Batch: 644517

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644069

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/23/22 12:00	02/24/22 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 12:00	02/24/22 20:41	1
Boron	<0.50		0.50	0.050	mg/L		02/23/22 12:00	02/24/22 20:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 12:00	02/24/22 20:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 12:00	02/24/22 20:41	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 12:00	02/24/22 20:41	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 12:00	02/24/22 20:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 12:00	02/24/22 20:41	1
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 12:00	02/24/22 20:41	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 12:00	02/24/22 20:41	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 12:00	02/24/22 20:41	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 12:00	02/24/22 20:41	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 12:00	02/24/22 20:41	1

Lab Sample ID: LB 500-643686/1-B
Matrix: Solid
Analysis Batch: 644508

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644034

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:13	02/24/22 16:01	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644069/2-A
 Matrix: Solid
 Analysis Batch: 644485

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 644069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.511		mg/L		102	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LB 500-643911/1-B
 Matrix: Solid
 Analysis Batch: 644485

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 644069

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 12:00	02/24/22 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 12:00	02/24/22 17:24	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644073/13-A
 Matrix: Solid
 Analysis Batch: 644370

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 644073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 10:25	1

Lab Sample ID: LCS 500-644073/14-A
 Matrix: Solid
 Analysis Batch: 644370

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 644073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00215	^1+	mg/L		108	80 - 120

Lab Sample ID: LB 500-643911/2-B
 Matrix: Solid
 Analysis Batch: 644370

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 644073

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 10:22	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-644103/12-A
 Matrix: Solid
 Analysis Batch: 644389

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 644103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		02/23/22 17:00	02/24/22 12:17	1

Lab Sample ID: LCS 500-644103/13-A
 Matrix: Solid
 Analysis Batch: 644389

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 644103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.152		mg/Kg		91	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Method: 9045D - pH

Lab Sample ID: 500-212293-1 DU
Matrix: Solid
Analysis Batch: 643084

Client Sample ID: 2615V2-114-B12 (0-3)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.2		8.2		SU		0.1	

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

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B12 (0-3)

Lab Sample ID: 500-212293-1

Date Collected: 02/14/22 10:54

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643686	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644034	02/23/22 09:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644508	02/24/22 16:43	JJB	TAL CHI
TCLP	Leach	1311			643911	02/22/22 15:04	EA	TAL CHI
TCLP	Prep	3010A			644069	02/23/22 12:00	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 22:04	JJB	TAL CHI
TCLP	Leach	1311			643911	02/22/22 15:04	EA	TAL CHI
TCLP	Prep	3010A			644069	02/23/22 12:00	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:15	FXG	TAL CHI
TCLP	Leach	1311			643911	02/22/22 15:04	EA	TAL CHI
TCLP	Prep	7470A			644073	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 11:27	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:29	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642890	02/17/22 07:44	LWN	TAL CHI

Client Sample ID: 2615V2-114-B12 (0-3)

Lab Sample ID: 500-212293-1

Date Collected: 02/14/22 10:54

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643739	02/22/22 18:34	PMF	TAL CHI
Total/NA	Prep	3541			643680	02/22/22 06:30	SB	TAL CHI
Total/NA	Analysis	8270D		1	643939	02/23/22 18:10	SS	TAL CHI
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 14:26	JJB	TAL CHI
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	644656	02/26/22 00:46	JJB	TAL CHI
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 14:28	JJB	TAL CHI
Total/NA	Prep	7471B			644103	02/23/22 17:00		TAL CHI
Total/NA	Analysis	7471B		1	644389	02/24/22 13:08	MJG	TAL CHI

Client Sample ID: 2615V2-114-B14 (0-3)

Lab Sample ID: 500-212293-2

Date Collected: 02/14/22 11:53

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643686	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644034	02/23/22 09:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644508	02/24/22 16:46	JJB	TAL CHI
TCLP	Leach	1311			643911	02/22/22 15:04	EA	TAL CHI
TCLP	Prep	3010A			644069	02/23/22 12:00	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 22:08	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Client Sample ID: 2615V2-114-B14 (0-3)

Lab Sample ID: 500-212293-2

Date Collected: 02/14/22 11:53

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643911	02/22/22 15:04	EA	TAL CHI
TCLP	Prep	3010A			644069	02/23/22 12:00	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:17	FXG	TAL CHI
TCLP	Leach	1311			643911	02/22/22 15:04	EA	TAL CHI
TCLP	Prep	7470A			644073	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 11:30	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:33	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642890	02/17/22 07:44	LWN	TAL CHI

Client Sample ID: 2615V2-114-B14 (0-3)

Lab Sample ID: 500-212293-2

Date Collected: 02/14/22 11:53

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643739	02/22/22 19:00	PMF	TAL CHI
Total/NA	Prep	3541			643680	02/22/22 06:30	SB	TAL CHI
Total/NA	Analysis	8270D		1	643939	02/23/22 18:34	SS	TAL CHI
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	644656	02/26/22 01:02	JJB	TAL CHI
Total/NA	Prep	7471B			644103	02/23/22 17:00		TAL CHI
Total/NA	Analysis	7471B		1	644389	02/24/22 13:14	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212293-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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Chain of Custody Record

542656



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager		Site Contact <i>D Wright</i>		Date <i>2/14/22</i>		COC No	
Company Name <i>WSP</i>		Tel/Email		Lab Contact		Carrier		____ of <u>2</u> COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N)		Vols Swab Metals TSSP PH Metals		Sampler	
City State/Zip		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only	
Phone _____ 500-212293 COC		TAT if different from Below _____						Walk-in Client <input type="checkbox"/>	
Fax _____		<input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week (<i>Standard</i>) <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling <input type="checkbox"/>	
Project Name <i>WJ08</i>								Job / SDG No	
Site <i>FA19044/290</i>								<i>500-212293</i>	
P O #								Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.			
1	<i>2615V2-114-B12(0-3)</i>		<i>2/14/22 1054</i>	<i>G</i>	<i>S</i>	<i>5</i>	<i>XX</i>	<i>XX</i>	<i>XX</i>
2	<i>2615V2-114-B014(0-3)</i>		<i>2/14/22 1153</i>	<i>G</i>	<i>S</i>	<i>5</i>	<i>XX</i>	<i>XX</i>	<i>XX</i>
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> </div>									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 8= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <i>34</i> Corr'd <i>24</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>WSP</i>		Date/Time <i>2/14/22 1600</i>		Received by <i>[Signature]</i>		Company <i>eurofins</i>	
Relinquished by <i>[Signature]</i>		Company <i>eurofins</i>		Date/Time <i>2/14/22 1705</i>		Received by <i>[Signature]</i>		Company <i>EPA</i>	
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212293-1

Login Number: 212293

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-212400-1

Client Project/Site: IDOT - 196-002-WO008 Byrne Interchange

For:

WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
3/1/2022 10:29:39 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Job ID: 500-212400-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212400-1

Receipt

The samples were received on 2/15/2022 5:32 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS VOA

Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: 2615V2-114-B11 (0-1) (500-212400-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644209 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, Carbazole, Indeno[1,2,3-cd]pyrene, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample contained one base surrogate outside acceptance limits: 2615V2-114-B04 (0-3) (500-212400-3). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644198 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], Hexachlorocyclopentadiene and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Internal standard responses for Perylene-d12 was outside of acceptance limits for the following samples: 2615V2-114-B02 (0-0.5) (500-212400-1), 2615V2-114-B03 (0-1) (500-212400-2), 2615V2-114-B04 (0-3) (500-212400-3) and 2615V2-114-B11 (0-1) (500-212400-4). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 500-644447 recovered above the upper control limit for multi analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 500-644447/2).

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

Metals

Method 6010B: The method blank for preparation batch 500-644323 and analytical batch 500-644645 contained Chromium 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.

Method 7470A: The initial calibration verification (ICV) result for batch 644370 recovered slightly above the 90-110% control limits for Hg (111%). All CCV's and batch QC were within acceptable limits. Sample results were non-detects, and have been reported as qualified data.

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: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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Client Sample ID: 2615V2-114-B03 (0-1)

Lab Sample ID: 500-212400-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.020	J	0.039	0.0061	mg/Kg	1	✳		8270D	Total/NA
2-Methylnaphthalene	0.031	J	0.080	0.0073	mg/Kg	1	✳		8270D	Total/NA
Acenaphthylene	0.011	J	0.039	0.0052	mg/Kg	1	✳		8270D	Total/NA
Acenaphthene	0.040		0.039	0.0071	mg/Kg	1	✳		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B03 (0-1) (Continued)

Lab Sample ID: 500-212400-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.041		0.039	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.39		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.10		0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.44		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.53		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.23		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.34	*3	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13	*3	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.26	*3	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.087	*3	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.023	J *3	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.066	*3	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.53	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	17		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	89000	B	58	9.9	mg/Kg	5	☼	6010B	Total/NA
Chromium	16	B	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	35		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	58	30	mg/Kg	5	☼	6010B	Total/NA
Lead	31		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	48000		29	14	mg/Kg	5	☼	6010B	Total/NA
Manganese	310	B	0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	32	B	0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.075	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.052		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.053		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-114-B04 (0-3)

Lab Sample ID: 500-212400-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.029	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.028	J	0.073	0.0066	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.033	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.051		0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.057		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.87		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.21		0.036	0.0060	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.4		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B04 (0-3) (Continued)

Lab Sample ID: 500-212400-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	2.0		0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.69		0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.71		0.036	0.0099	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.066	J	0.18	0.066	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1.2	*3	0.036	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.43	*3	0.036	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.78	*3	0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.22	*3	0.036	0.0094	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.063	*3	0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.19	*3	0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.67	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.8		0.54	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	45		0.54	0.061	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.39		0.22	0.050	mg/Kg	1	✳	6010B	Total/NA
Boron	16		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.076	J B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	120000	B	54	9.1	mg/Kg	5	✳	6010B	Total/NA
Chromium	12	B	0.54	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	6.9		0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Copper	28		0.54	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	13000	B	54	28	mg/Kg	5	✳	6010B	Total/NA
Lead	41		0.27	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	66000		27	13	mg/Kg	5	✳	6010B	Total/NA
Manganese	270	B	0.54	0.078	mg/Kg	1	✳	6010B	Total/NA
Nickel	19	B	0.54	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1700		27	9.5	mg/Kg	1	✳	6010B	Total/NA
Sodium	390		54	8.0	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.30	J	0.54	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	13		0.27	0.064	mg/Kg	1	✳	6010B	Total/NA
Zinc	73		1.1	0.47	mg/Kg	1	✳	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.073		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.

Job ID: 500-212400-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212400-2	2615V2-114-B03 (0-1)	Solid	02/15/22 12:10	02/15/22 17:32
500-212400-3	2615V2-114-B04 (0-3)	Solid	02/15/22 12:15	02/15/22 17:32

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B03 (0-1)

Lab Sample ID: 500-212400-2

Date Collected: 02/15/22 12:10

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
1,2-Dichloropropene	<0.0018		0.0018	0.00048	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✱	02/15/22 17:52	02/24/22 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		75 - 131	02/15/22 17:52	02/24/22 19:11	1
Dibromofluoromethane	110		75 - 126	02/15/22 17:52	02/24/22 19:11	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	02/15/22 17:52	02/24/22 19:11	1
Toluene-d8 (Surr)	98		75 - 124	02/15/22 17:52	02/24/22 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	✱	02/23/22 16:17	02/25/22 14:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✱	02/23/22 16:17	02/25/22 14:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✱	02/23/22 16:17	02/25/22 14:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	02/23/22 16:17	02/25/22 14:26	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B03 (0-1)

Lab Sample ID: 500-212400-2

Date Collected: 02/15/22 12:10

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Naphthalene	0.020	J	0.039	0.0061	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2-Methylnaphthalene	0.031	J	0.080	0.0073	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Acenaphthylene	0.011	J	0.039	0.0052	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Acenaphthene	0.040		0.039	0.0071	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Fluorene	0.041		0.039	0.0056	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Phenanthrene	0.39		0.039	0.0055	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Anthracene	0.10		0.039	0.0066	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Fluoranthene	0.44		0.039	0.0073	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Pyrene	0.53		0.039	0.0079	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1
Benzo[a]anthracene	0.22		0.039	0.0053	mg/Kg	☼	02/23/22 16:17	02/25/22 14:26	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B03 (0-1)

Lab Sample ID: 500-212400-2

Date Collected: 02/15/22 12:10

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.23		0.039	0.011	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
Benzo[b]fluoranthene	0.34	*3	0.039	0.0085	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
Benzo[k]fluoranthene	0.13	*3	0.039	0.012	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
Benzo[a]pyrene	0.26	*3	0.039	0.0077	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
Indeno[1,2,3-cd]pyrene	0.087	*3	0.039	0.010	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
Dibenz(a,h)anthracene	0.023	J *3	0.039	0.0076	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
Benzo[g,h,i]perylene	0.066	*3	0.039	0.013	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	02/23/22 16:17	02/25/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		31 - 166				02/23/22 16:17	02/25/22 14:26	1
Phenol-d5	82		30 - 153				02/23/22 16:17	02/25/22 14:26	1
Nitrobenzene-d5 (Surr)	57		37 - 147				02/23/22 16:17	02/25/22 14:26	1
2-Fluorobiphenyl (Surr)	80		43 - 145				02/23/22 16:17	02/25/22 14:26	1
2,4,6-Tribromophenol	71		31 - 143				02/23/22 16:17	02/25/22 14:26	1
Terphenyl-d14 (Surr)	119		42 - 157				02/23/22 16:17	02/25/22 14:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.2	0.23	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Arsenic	7.8		0.58	0.20	mg/Kg	✳	02/25/22 10:35	02/27/22 19:41	1
Barium	42		0.58	0.066	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Beryllium	0.60		0.23	0.054	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Boron	17		2.9	0.27	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Calcium	89000	B	58	9.9	mg/Kg	✳	02/25/22 10:35	02/27/22 15:41	5
Chromium	16	B	0.58	0.29	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Cobalt	12		0.29	0.076	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Copper	35		0.58	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Iron	24000	B	58	30	mg/Kg	✳	02/25/22 10:35	02/27/22 15:41	5
Lead	31		0.29	0.13	mg/Kg	✳	02/25/22 10:35	02/27/22 19:41	1
Magnesium	48000		29	14	mg/Kg	✳	02/25/22 10:35	02/27/22 15:41	5
Manganese	310	B	0.58	0.085	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Nickel	32	B	0.58	0.17	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Potassium	2800		29	10	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Silver	<0.29		0.29	0.075	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Sodium	230		58	8.6	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Thallium	<0.58		0.58	0.29	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Vanadium	18		0.29	0.069	mg/Kg	✳	02/25/22 10:35	02/25/22 19:53	1
Zinc	57		1.2	0.51	mg/Kg	✳	02/25/22 10:35	02/27/22 19:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.30	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 23:31	1
Boron	0.075	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:31	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B03 (0-1)

Lab Sample ID: 500-212400-2

Date Collected: 02/15/22 12:10

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 23:31	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:31	1
Cobalt	0.023	J	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:31	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 23:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 23:31	1
Manganese	1.3		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:31	1
Nickel	0.052		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:31	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 23:31	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:31	1
Zinc	0.033	J	0.50	0.020	mg/L		02/24/22 08:20	02/24/22 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 19:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 19:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 12:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.018	0.0060	mg/Kg	☆	02/24/22 18:30	02/25/22 18:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			02/18/22 20:17	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B04 (0-3)

Lab Sample ID: 500-212400-3

Date Collected: 02/15/22 12:15

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0091	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
1,2-Dichloropropene	<0.0021		0.0021	0.00054	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Methylene Chloride	<0.0052		0.0052	0.0021	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	✱	02/15/22 17:52	02/24/22 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		75 - 131	02/15/22 17:52	02/24/22 11:34	1
Dibromofluoromethane	114		75 - 126	02/15/22 17:52	02/24/22 11:34	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	02/15/22 17:52	02/24/22 11:34	1
Toluene-d8 (Surr)	120		75 - 124	02/15/22 17:52	02/24/22 11:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B04 (0-3)

Lab Sample ID: 500-212400-3

Date Collected: 02/15/22 12:15

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Isophorone	<0.18		0.18	0.041	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Naphthalene	0.029	J	0.036	0.0056	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2-Methylnaphthalene	0.028	J	0.073	0.0066	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Acenaphthylene	0.033	J	0.036	0.0048	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Acenaphthene	0.051		0.036	0.0065	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Fluorene	0.057		0.036	0.0051	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Phenanthrene	0.87		0.036	0.0050	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Anthracene	0.21		0.036	0.0060	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Carbazole	<0.18		0.18	0.090	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Fluoranthene	1.4		0.036	0.0067	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Pyrene	2.0		0.036	0.0072	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1
Benzo[a]anthracene	0.69		0.036	0.0049	mg/Kg	✱	02/23/22 16:17	02/25/22 14:47	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B04 (0-3)

Lab Sample ID: 500-212400-3

Date Collected: 02/15/22 12:15

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.71		0.036	0.0099	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
Bis(2-ethylhexyl) phthalate	0.066	J	0.18	0.066	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
Benzo[b]fluoranthene	1.2	*3	0.036	0.0078	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
Benzo[k]fluoranthene	0.43	*3	0.036	0.011	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
Benzo[a]pyrene	0.78	*3	0.036	0.0070	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
Indeno[1,2,3-cd]pyrene	0.22	*3	0.036	0.0094	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
Dibenz(a,h)anthracene	0.063	*3	0.036	0.0070	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
Benzo[g,h,i]perylene	0.19	*3	0.036	0.012	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	✳	02/23/22 16:17	02/25/22 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		31 - 166				02/23/22 16:17	02/25/22 14:47	1
Phenol-d5	96		30 - 153				02/23/22 16:17	02/25/22 14:47	1
Nitrobenzene-d5 (Surr)	66		37 - 147				02/23/22 16:17	02/25/22 14:47	1
2-Fluorobiphenyl (Surr)	92		43 - 145				02/23/22 16:17	02/25/22 14:47	1
2,4,6-Tribromophenol	72		31 - 143				02/23/22 16:17	02/25/22 14:47	1
Terphenyl-d14 (Surr)	154		42 - 157				02/23/22 16:17	02/25/22 14:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J	1.1	0.21	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Arsenic	5.8		0.54	0.18	mg/Kg	✳	02/25/22 10:35	02/27/22 19:45	1
Barium	45		0.54	0.061	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Beryllium	0.39		0.22	0.050	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Boron	16		2.7	0.25	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Cadmium	0.076	J B	0.11	0.019	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Calcium	120000	B	54	9.1	mg/Kg	✳	02/25/22 10:35	02/27/22 15:51	5
Chromium	12	B	0.54	0.27	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Cobalt	6.9		0.27	0.071	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Copper	28		0.54	0.15	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Iron	13000	B	54	28	mg/Kg	✳	02/25/22 10:35	02/27/22 15:51	5
Lead	41		0.27	0.12	mg/Kg	✳	02/25/22 10:35	02/27/22 19:45	1
Magnesium	66000		27	13	mg/Kg	✳	02/25/22 10:35	02/27/22 15:51	5
Manganese	270	B	0.54	0.078	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Nickel	19	B	0.54	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Potassium	1700		27	9.5	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Silver	<0.27		0.27	0.070	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Sodium	390		54	8.0	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Thallium	0.30	J	0.54	0.27	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Vanadium	13		0.27	0.064	mg/Kg	✳	02/25/22 10:35	02/25/22 19:56	1
Zinc	73		1.1	0.47	mg/Kg	✳	02/25/22 10:35	02/27/22 19:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 23:34	1
Boron	0.12	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:34	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B04 (0-3)

Lab Sample ID: 500-212400-3

Date Collected: 02/15/22 12:15

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 23:34	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:34	1
Cobalt	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:34	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 23:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/25/22 16:09	1
Manganese	0.46		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:34	1
Nickel	0.010	J	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 23:34	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:34	1
Zinc	0.13	J	0.50	0.020	mg/L		02/24/22 08:20	02/24/22 23:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 15:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 19:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 19:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 12:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.017	0.0057	mg/Kg	☆	02/24/22 18:30	02/25/22 18:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			02/18/22 20:19	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

GC/MS VOA

Prep Batch: 644159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	5035	
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	5035	
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	5035	
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	5035	

Analysis Batch: 644234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	8260B	644159
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	8260B	644159
MB 500-644234/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-644234/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644234/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 644252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	8260B	644159
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	8260B	644159
MB 500-644252/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-644252/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644252/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	3541	
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	3541	
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	3541	
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	3541	
MB 500-644133/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644133/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 644209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-644133/1-A	Method Blank	Total/NA	Solid	8270D	644133
LCS 500-644133/2-A	Lab Control Sample	Total/NA	Solid	8270D	644133

Analysis Batch: 644447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	8270D	644133
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	8270D	644133
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	8270D	644133
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	8270D	644133

Metals

Leach Batch: 643913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	TCLP	Solid	1311	
500-212400-2	2615V2-114-B03 (0-1)	TCLP	Solid	1311	
500-212400-3	2615V2-114-B04 (0-3)	TCLP	Solid	1311	
500-212400-4	2615V2-114-B11 (0-1)	TCLP	Solid	1311	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Metals (Continued)

Leach Batch: 643913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-643913/2-B	Method Blank	TCLP	Solid	1311	
LB 500-643913/2-C	Method Blank	TCLP	Solid	1311	
500-212400-4 MS	2615V2-114-B11 (0-1)	TCLP	Solid	1311	
500-212400-4 DU	2615V2-114-B11 (0-1)	TCLP	Solid	1311	

Leach Batch: 643921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	SPLP East	Solid	1312	
500-212400-2	2615V2-114-B03 (0-1)	SPLP East	Solid	1312	
500-212400-3	2615V2-114-B04 (0-3)	SPLP East	Solid	1312	
500-212400-4	2615V2-114-B11 (0-1)	SPLP East	Solid	1312	
LB 500-643921/1-B	Method Blank	SPLP East	Solid	1312	
500-212400-1 MS	2615V2-114-B02 (0-0.5)	SPLP East	Solid	1312	
500-212400-1 DU	2615V2-114-B02 (0-0.5)	SPLP East	Solid	1312	

Prep Batch: 644075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	TCLP	Solid	7470A	643913
500-212400-2	2615V2-114-B03 (0-1)	TCLP	Solid	7470A	643913
500-212400-3	2615V2-114-B04 (0-3)	TCLP	Solid	7470A	643913
500-212400-4	2615V2-114-B11 (0-1)	TCLP	Solid	7470A	643913
LB 500-643913/2-B	Method Blank	TCLP	Solid	7470A	643913
MB 500-644075/13-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-644075/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-212400-4 MS	2615V2-114-B11 (0-1)	TCLP	Solid	7470A	643913
500-212400-4 DU	2615V2-114-B11 (0-1)	TCLP	Solid	7470A	643913

Prep Batch: 644281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	TCLP	Solid	3010A	643913
500-212400-2	2615V2-114-B03 (0-1)	TCLP	Solid	3010A	643913
500-212400-3	2615V2-114-B04 (0-3)	TCLP	Solid	3010A	643913
500-212400-4	2615V2-114-B11 (0-1)	TCLP	Solid	3010A	643913
LB 500-643913/2-C	Method Blank	TCLP	Solid	3010A	643913
LCS 500-644281/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	SPLP East	Solid	3010A	643921
500-212400-2	2615V2-114-B03 (0-1)	SPLP East	Solid	3010A	643921
500-212400-3	2615V2-114-B04 (0-3)	SPLP East	Solid	3010A	643921
500-212400-4	2615V2-114-B11 (0-1)	SPLP East	Solid	3010A	643921
LB 500-643921/1-B	Method Blank	SPLP East	Solid	3010A	643921
LCS 500-644290/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212400-1 MS	2615V2-114-B02 (0-0.5)	SPLP East	Solid	3010A	643921
500-212400-1 DU	2615V2-114-B02 (0-0.5)	SPLP East	Solid	3010A	643921

Prep Batch: 644323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	3050B	
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	3050B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Metals (Continued)

Prep Batch: 644323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	3050B	
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	3050B	
MB 500-644323/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644323/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 644343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	7471B	
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	7471B	
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	7471B	
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	7471B	
MB 500-644343/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-644343/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 644370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	TCLP	Solid	7470A	644075
500-212400-2	2615V2-114-B03 (0-1)	TCLP	Solid	7470A	644075
500-212400-3	2615V2-114-B04 (0-3)	TCLP	Solid	7470A	644075
500-212400-4	2615V2-114-B11 (0-1)	TCLP	Solid	7470A	644075
LB 500-643913/2-B	Method Blank	TCLP	Solid	7470A	644075
MB 500-644075/13-A	Method Blank	Total/NA	Solid	7470A	644075
LCS 500-644075/14-A	Lab Control Sample	Total/NA	Solid	7470A	644075
500-212400-4 MS	2615V2-114-B11 (0-1)	TCLP	Solid	7470A	644075
500-212400-4 DU	2615V2-114-B11 (0-1)	TCLP	Solid	7470A	644075

Analysis Batch: 644485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	TCLP	Solid	6020A	644281
500-212400-2	2615V2-114-B03 (0-1)	TCLP	Solid	6020A	644281
500-212400-3	2615V2-114-B04 (0-3)	TCLP	Solid	6020A	644281
500-212400-4	2615V2-114-B11 (0-1)	TCLP	Solid	6020A	644281
LB 500-643913/2-C	Method Blank	TCLP	Solid	6020A	644281

Analysis Batch: 644517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	TCLP	Solid	6010B	644281
500-212400-2	2615V2-114-B03 (0-1)	TCLP	Solid	6010B	644281
500-212400-3	2615V2-114-B04 (0-3)	TCLP	Solid	6010B	644281
500-212400-4	2615V2-114-B11 (0-1)	TCLP	Solid	6010B	644281
LB 500-643913/2-C	Method Blank	TCLP	Solid	6010B	644281

Analysis Batch: 644561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644281/2-A	Lab Control Sample	Total/NA	Solid	6020A	644281

Analysis Batch: 644565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644281/2-A	Lab Control Sample	Total/NA	Solid	6010B	644281

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Metals

Analysis Batch: 644606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	7471B	644343
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	7471B	644343
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	7471B	644343
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	7471B	644343
MB 500-644343/12-A	Method Blank	Total/NA	Solid	7471B	644343
LCS 500-644343/13-A	Lab Control Sample	Total/NA	Solid	7471B	644343

Analysis Batch: 644645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	6010B	644323
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	6010B	644323
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	6010B	644323
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	6010B	644323
MB 500-644323/1-A	Method Blank	Total/NA	Solid	6010B	644323
LCS 500-644323/2-A	Lab Control Sample	Total/NA	Solid	6010B	644323

Analysis Batch: 644657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	TCLP	Solid	6010B	644281
500-212400-3	2615V2-114-B04 (0-3)	TCLP	Solid	6010B	644281
500-212400-4	2615V2-114-B11 (0-1)	TCLP	Solid	6010B	644281

Analysis Batch: 644767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	6010B	644323
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	6010B	644323
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	6010B	644323
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	6010B	644323
LCS 500-644323/2-A	Lab Control Sample	Total/NA	Solid	6010B	644323

Analysis Batch: 644768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	6010B	644323
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	6010B	644323
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	6010B	644323
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	6010B	644323

Analysis Batch: 645022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	SPLP East	Solid	6010B	644290
500-212400-2	2615V2-114-B03 (0-1)	SPLP East	Solid	6010B	644290
500-212400-3	2615V2-114-B04 (0-3)	SPLP East	Solid	6010B	644290
500-212400-4	2615V2-114-B11 (0-1)	SPLP East	Solid	6010B	644290
LB 500-643921/1-B	Method Blank	SPLP East	Solid	6010B	644290
LCS 500-644290/2-A	Lab Control Sample	Total/NA	Solid	6010B	644290
500-212400-1 MS	2615V2-114-B02 (0-0.5)	SPLP East	Solid	6010B	644290
500-212400-1 DU	2615V2-114-B02 (0-0.5)	SPLP East	Solid	6010B	644290

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

General Chemistry

Analysis Batch: 643153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	Moisture	
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	Moisture	
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	Moisture	
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	Moisture	

Analysis Batch: 643430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212400-1	2615V2-114-B02 (0-0.5)	Total/NA	Solid	9045D	
500-212400-2	2615V2-114-B03 (0-1)	Total/NA	Solid	9045D	
500-212400-3	2615V2-114-B04 (0-3)	Total/NA	Solid	9045D	
500-212400-4	2615V2-114-B11 (0-1)	Total/NA	Solid	9045D	
LCS 500-643430/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-643430/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-212400-1	2615V2-114-B02 (0-0.5)	116	97	104	97
500-212400-2	2615V2-114-B03 (0-1)	124	110	111	98
500-212400-3	2615V2-114-B04 (0-3)	126	114	108	120
500-212400-4	2615V2-114-B11 (0-1)	131	113	112	125 S1+
LCS 500-644234/7	Lab Control Sample	106	118	103	116
LCS 500-644252/4	Lab Control Sample	106	98	97	98
LCSD 500-644234/4	Lab Control Sample Dup	105	117	104	115
LCSD 500-644252/5	Lab Control Sample Dup	104	100	96	94
MB 500-644234/6	Method Blank	109	111	105	114
MB 500-644252/7	Method Blank	111	97	94	101

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-212400-1	2615V2-114-B02 (0-0.5)	86	89	64	88	52	118
500-212400-2	2615V2-114-B03 (0-1)	86	82	57	80	71	119
500-212400-3	2615V2-114-B04 (0-3)	92	96	66	92	72	154
500-212400-4	2615V2-114-B11 (0-1)	88	88	66	86	54	137
LCS 500-644133/2-A	Lab Control Sample	95	103	81	101	77	97
MB 500-644133/1-A	Method Blank	100	93	77	91	58	108

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: MB 500-644234/6
Matrix: Solid
Analysis Batch: 644234

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/24/22 10:41	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/24/22 10:41	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/24/22 10:41	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/24/22 10:41	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/24/22 10:41	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/24/22 10:41	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/24/22 10:41	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/24/22 10:41	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/24/22 10:41	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/24/22 10:41	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 10:41	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/24/22 10:41	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/24/22 10:41	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/24/22 10:41	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/24/22 10:41	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 10:41	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/24/22 10:41	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 10:41	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/24/22 10:41	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/24/22 10:41	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/24/22 10:41	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/24/22 10:41	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/24/22 10:41	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/24/22 10:41	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/24/22 10:41	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/24/22 10:41	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/24/22 10:41	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/24/22 10:41	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/24/22 10:41	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/24/22 10:41	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/24/22 10:41	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/24/22 10:41	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/24/22 10:41	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/24/22 10:41	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/24/22 10:41	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/24/22 10:41	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/24/22 10:41	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	109		75 - 131		02/24/22 10:41	1
Dibromofluoromethane	111		75 - 126		02/24/22 10:41	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		02/24/22 10:41	1
Toluene-d8 (Surr)	114		75 - 124		02/24/22 10:41	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: LCS 500-644234/7
Matrix: Solid
Analysis Batch: 644234

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0386		mg/Kg		77	40 - 150
Benzene	0.0500	0.0420		mg/Kg		84	70 - 125
Bromodichloromethane	0.0500	0.0393		mg/Kg		79	67 - 129
Bromoform	0.0500	0.0383		mg/Kg		77	68 - 136
Bromomethane	0.0500	0.0530		mg/Kg		106	70 - 130
2-Butanone (MEK)	0.0500	0.0378		mg/Kg		76	47 - 138
Carbon disulfide	0.0500	0.0437		mg/Kg		87	70 - 129
Carbon tetrachloride	0.0500	0.0457		mg/Kg		91	75 - 125
Chlorobenzene	0.0500	0.0420		mg/Kg		84	50 - 150
Chloroethane	0.0500	0.0556		mg/Kg		111	75 - 125
Chloroform	0.0500	0.0417		mg/Kg		83	57 - 135
Chloromethane	0.0500	0.0411		mg/Kg		82	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0428		mg/Kg		86	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0388		mg/Kg		78	70 - 125
Dibromochloromethane	0.0500	0.0410		mg/Kg		82	69 - 125
1,1-Dichloroethane	0.0500	0.0425		mg/Kg		85	70 - 125
1,2-Dichloroethane	0.0500	0.0393		mg/Kg		79	70 - 130
1,1-Dichloroethene	0.0500	0.0440		mg/Kg		88	70 - 120
1,2-Dichloropropane	0.0500	0.0386		mg/Kg		77	70 - 125
Ethylbenzene	0.0500	0.0431		mg/Kg		86	61 - 136
2-Hexanone	0.0500	0.0400		mg/Kg		80	48 - 146
Methylene Chloride	0.0500	0.0452		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0397		mg/Kg		79	50 - 148
Methyl tert-butyl ether	0.0500	0.0399		mg/Kg		80	50 - 140
Styrene	0.0500	0.0419		mg/Kg		84	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0371		mg/Kg		74	70 - 122
Tetrachloroethene	0.0500	0.0446		mg/Kg		89	70 - 124
Toluene	0.0500	0.0416		mg/Kg		83	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0437		mg/Kg		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0382		mg/Kg		76	70 - 125
1,1,1-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 128
1,1,2-Trichloroethane	0.0500	0.0391		mg/Kg		78	70 - 125
Trichloroethene	0.0500	0.0436		mg/Kg		87	70 - 125
Vinyl acetate	0.0500	0.0313		mg/Kg		63	40 - 153
Vinyl chloride	0.0500	0.0451		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0843		mg/Kg		84	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		75 - 131
Dibromofluoromethane	118		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	116		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: LCSD 500-644234/4
Matrix: Solid
Analysis Batch: 644234

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0440		mg/Kg		88	40 - 150	13	30
Benzene	0.0500	0.0459		mg/Kg		92	70 - 125	9	30
Bromodichloromethane	0.0500	0.0441		mg/Kg		88	67 - 129	11	30
Bromoform	0.0500	0.0452		mg/Kg		90	68 - 136	16	30
Bromomethane	0.0500	0.0466		mg/Kg		93	70 - 130	13	30
2-Butanone (MEK)	0.0500	0.0453		mg/Kg		91	47 - 138	18	30
Carbon disulfide	0.0500	0.0469		mg/Kg		94	70 - 129	7	30
Carbon tetrachloride	0.0500	0.0502		mg/Kg		100	75 - 125	9	30
Chlorobenzene	0.0500	0.0460		mg/Kg		92	50 - 150	9	30
Chloroethane	0.0500	0.0523		mg/Kg		105	75 - 125	6	30
Chloroform	0.0500	0.0454		mg/Kg		91	57 - 135	9	30
Chloromethane	0.0500	0.0379		mg/Kg		76	70 - 125	8	30
cis-1,2-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 125	10	30
cis-1,3-Dichloropropene	0.0500	0.0419		mg/Kg		84	70 - 125	8	30
Dibromochloromethane	0.0500	0.0460		mg/Kg		92	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0462		mg/Kg		92	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0429		mg/Kg		86	70 - 130	9	30
1,1-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 120	8	30
1,2-Dichloropropane	0.0500	0.0432		mg/Kg		86	70 - 125	11	30
Ethylbenzene	0.0500	0.0475		mg/Kg		95	61 - 136	10	30
2-Hexanone	0.0500	0.0469		mg/Kg		94	48 - 146	16	30
Methylene Chloride	0.0500	0.0489		mg/Kg		98	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0445		mg/Kg		89	50 - 148	11	30
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140	14	30
Styrene	0.0500	0.0476		mg/Kg		95	70 - 125	13	30
1,1,2,2-Tetrachloroethane	0.0500	0.0429		mg/Kg		86	70 - 122	15	30
Tetrachloroethene	0.0500	0.0478		mg/Kg		96	70 - 124	7	30
Toluene	0.0500	0.0452		mg/Kg		90	70 - 125	8	30
trans-1,2-Dichloroethene	0.0500	0.0483		mg/Kg		97	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0428		mg/Kg		86	70 - 125	11	30
1,1,1-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0431		mg/Kg		86	70 - 125	10	30
Trichloroethene	0.0500	0.0474		mg/Kg		95	70 - 125	8	30
Vinyl acetate	0.0500	0.0315		mg/Kg		63	40 - 153	1	30
Vinyl chloride	0.0500	0.0430		mg/Kg		86	70 - 125	5	30
Xylenes, Total	0.100	0.0923		mg/Kg		92	53 - 147	9	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		75 - 131
Dibromofluoromethane	117		75 - 126
1,2-Dichloroethane-d4 (Surr)	104		70 - 134
Toluene-d8 (Surr)	115		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: MB 500-644252/7
Matrix: Solid
Analysis Batch: 644252

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/24/22 11:00	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/24/22 11:00	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/24/22 11:00	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/24/22 11:00	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/24/22 11:00	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/24/22 11:00	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/24/22 11:00	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/24/22 11:00	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/24/22 11:00	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/24/22 11:00	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 11:00	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/24/22 11:00	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/24/22 11:00	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/24/22 11:00	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/24/22 11:00	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 11:00	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/24/22 11:00	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 11:00	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/24/22 11:00	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/24/22 11:00	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/24/22 11:00	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/24/22 11:00	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/24/22 11:00	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/24/22 11:00	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/24/22 11:00	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/24/22 11:00	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/24/22 11:00	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/24/22 11:00	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/24/22 11:00	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/24/22 11:00	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/24/22 11:00	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/24/22 11:00	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/24/22 11:00	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/24/22 11:00	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/24/22 11:00	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/24/22 11:00	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/24/22 11:00	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	111		75 - 131		02/24/22 11:00	1
Dibromofluoromethane	97		75 - 126		02/24/22 11:00	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		02/24/22 11:00	1
Toluene-d8 (Surr)	101		75 - 124		02/24/22 11:00	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: LCS 500-644252/4
Matrix: Solid
Analysis Batch: 644252

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0467		mg/Kg		93	40 - 150
Benzene	0.0500	0.0452		mg/Kg		90	70 - 125
Bromodichloromethane	0.0500	0.0488		mg/Kg		98	67 - 129
Bromoform	0.0500	0.0479		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0379		mg/Kg		76	70 - 130
2-Butanone (MEK)	0.0500	0.0493		mg/Kg		99	47 - 138
Carbon disulfide	0.0500	0.0423		mg/Kg		85	70 - 129
Carbon tetrachloride	0.0500	0.0479		mg/Kg		96	75 - 125
Chlorobenzene	0.0500	0.0485		mg/Kg		97	50 - 150
Chloroethane	0.0500	0.0414		mg/Kg		83	75 - 125
Chloroform	0.0500	0.0481		mg/Kg		96	57 - 135
Chloromethane	0.0500	0.0365		mg/Kg		73	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0455		mg/Kg		91	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0434		mg/Kg		87	70 - 125
Dibromochloromethane	0.0500	0.0464		mg/Kg		93	69 - 125
1,1-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0492		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0500	0.0458		mg/Kg		92	70 - 120
1,2-Dichloropropane	0.0500	0.0457		mg/Kg		91	70 - 125
Ethylbenzene	0.0500	0.0482		mg/Kg		96	61 - 136
2-Hexanone	0.0500	0.0416		mg/Kg		83	48 - 146
Methylene Chloride	0.0500	0.0464		mg/Kg		93	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0401		mg/Kg		80	50 - 148
Methyl tert-butyl ether	0.0500	0.0445		mg/Kg		89	50 - 140
Styrene	0.0500	0.0466		mg/Kg		93	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0498		mg/Kg		100	70 - 122
Tetrachloroethene	0.0500	0.0521		mg/Kg		104	70 - 124
Toluene	0.0500	0.0462		mg/Kg		92	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0442		mg/Kg		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 128
1,1,2-Trichloroethane	0.0500	0.0474		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0489		mg/Kg		98	70 - 125
Vinyl acetate	0.0500	0.0370		mg/Kg		74	40 - 153
Vinyl chloride	0.0500	0.0409		mg/Kg		82	70 - 125
Xylenes, Total	0.100	0.0941		mg/Kg		94	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	97		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: LCSD 500-644252/5
Matrix: Solid
Analysis Batch: 644252

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0498		mg/Kg		100	40 - 150	6	30
Benzene	0.0500	0.0532		mg/Kg		106	70 - 125	16	30
Bromodichloromethane	0.0500	0.0556		mg/Kg		111	67 - 129	13	30
Bromoform	0.0500	0.0541		mg/Kg		108	68 - 136	12	30
Bromomethane	0.0500	0.0444		mg/Kg		89	70 - 130	16	30
2-Butanone (MEK)	0.0500	0.0495		mg/Kg		99	47 - 138	0	30
Carbon disulfide	0.0500	0.0517		mg/Kg		103	70 - 129	20	30
Carbon tetrachloride	0.0500	0.0597		mg/Kg		119	75 - 125	22	30
Chlorobenzene	0.0500	0.0556		mg/Kg		111	50 - 150	14	30
Chloroethane	0.0500	0.0474		mg/Kg		95	75 - 125	13	30
Chloroform	0.0500	0.0586		mg/Kg		117	57 - 135	20	30
Chloromethane	0.0500	0.0404		mg/Kg		81	70 - 125	10	30
cis-1,2-Dichloroethene	0.0500	0.0569		mg/Kg		114	70 - 125	22	30
cis-1,3-Dichloropropene	0.0500	0.0490		mg/Kg		98	70 - 125	12	30
Dibromochloromethane	0.0500	0.0523		mg/Kg		105	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0574		mg/Kg		115	70 - 125	23	30
1,2-Dichloroethane	0.0500	0.0577		mg/Kg		115	70 - 130	16	30
1,1-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 120	19	30
1,2-Dichloropropane	0.0500	0.0518		mg/Kg		104	70 - 125	13	30
Ethylbenzene	0.0500	0.0551		mg/Kg		110	61 - 136	13	30
2-Hexanone	0.0500	0.0416		mg/Kg		83	48 - 146	0	30
Methylene Chloride	0.0500	0.0567		mg/Kg		113	70 - 126	20	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0410		mg/Kg		82	50 - 148	2	30
Methyl tert-butyl ether	0.0500	0.0522		mg/Kg		104	50 - 140	16	30
Styrene	0.0500	0.0538		mg/Kg		108	70 - 125	14	30
1,1,2,2-Tetrachloroethane	0.0500	0.0545		mg/Kg		109	70 - 122	9	30
Tetrachloroethene	0.0500	0.0585		mg/Kg		117	70 - 124	12	30
Toluene	0.0500	0.0517		mg/Kg		103	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0574		mg/Kg		115	70 - 125	22	30
trans-1,3-Dichloropropene	0.0500	0.0499		mg/Kg		100	70 - 125	12	30
1,1,1-Trichloroethane	0.0500	0.0602		mg/Kg		120	70 - 128	22	30
1,1,2-Trichloroethane	0.0500	0.0510		mg/Kg		102	70 - 125	7	30
Trichloroethene	0.0500	0.0569		mg/Kg		114	70 - 125	15	30
Vinyl acetate	0.0500	0.0386		mg/Kg		77	40 - 153	4	30
Vinyl chloride	0.0500	0.0466		mg/Kg		93	70 - 125	13	30
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147	14	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		75 - 131
Dibromofluoromethane	100		75 - 126
1,2-Dichloroethane-d4 (Surr)	96		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: MB 500-644133/1-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644133

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/23/22 16:17	02/24/22 11:21	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: MB 500-644133/1-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/23/22 16:17	02/24/22 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		31 - 166	02/23/22 16:17	02/24/22 11:21	1
Phenol-d5	93		30 - 153	02/23/22 16:17	02/24/22 11:21	1
Nitrobenzene-d5 (Surr)	77		37 - 147	02/23/22 16:17	02/24/22 11:21	1
2-Fluorobiphenyl (Surr)	91		43 - 145	02/23/22 16:17	02/24/22 11:21	1
2,4,6-Tribromophenol	58		31 - 143	02/23/22 16:17	02/24/22 11:21	1
Terphenyl-d14 (Surr)	108		42 - 157	02/23/22 16:17	02/24/22 11:21	1

Lab Sample ID: LCS 500-644133/2-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.26		mg/Kg		95	56 - 122
Bis(2-chloroethyl)ether	1.33	1.32		mg/Kg		99	55 - 111
1,3-Dichlorobenzene	1.33	1.09		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.13		mg/Kg		85	62 - 110
2-Methylphenol	1.33	1.22		mg/Kg		91	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.13		mg/Kg		85	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.11		mg/Kg		84	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.29		mg/Kg		96	64 - 110
Nitrobenzene	1.33	1.14		mg/Kg		86	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.14		mg/Kg		85	60 - 112
1,2,4-Trichlorobenzene	1.33	1.15		mg/Kg		86	66 - 117
Isophorone	1.33	1.12		mg/Kg		84	55 - 110
2,4-Dimethylphenol	1.33	1.11		mg/Kg		83	60 - 110
Hexachlorobutadiene	1.33	1.18		mg/Kg		88	56 - 120
Naphthalene	1.33	1.16		mg/Kg		87	63 - 110
2,4-Dichlorophenol	1.33	1.19		mg/Kg		89	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: LCS 500-644133/2-A

Matrix: Solid

Analysis Batch: 644209

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 644133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.09		mg/Kg		82	30 - 150
2,4,6-Trichlorophenol	1.33	1.06		mg/Kg		79	57 - 120
2,4,5-Trichlorophenol	1.33	1.16		mg/Kg		87	50 - 120
Hexachlorocyclopentadiene	1.33	0.284	J	mg/Kg		21	10 - 133
2-Methylnaphthalene	1.33	1.25		mg/Kg		94	69 - 112
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
2-Chloronaphthalene	1.33	1.20		mg/Kg		90	69 - 114
4-Chloro-3-methylphenol	1.33	1.20		mg/Kg		90	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	1.02		mg/Kg		77	40 - 122
Dimethyl phthalate	1.33	1.18		mg/Kg		89	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		13	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.22		mg/Kg		92	69 - 124
Acenaphthene	1.33	1.18		mg/Kg		89	65 - 124
Dibenzofuran	1.33	1.24		mg/Kg		93	66 - 115
4-Nitrophenol	2.67	2.09		mg/Kg		78	30 - 122
Fluorene	1.33	1.27		mg/Kg		95	62 - 120
4-Nitroaniline	1.33	1.27		mg/Kg		95	60 - 160
4-Bromophenyl phenyl ether	1.33	1.18		mg/Kg		88	68 - 118
Hexachlorobenzene	1.33	1.22		mg/Kg		91	63 - 124
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.26		mg/Kg		95	62 - 119
Pentachlorophenol	2.67	0.685		mg/Kg		26	13 - 112
N-Nitrosodiphenylamine	1.33	1.22		mg/Kg		92	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.732		mg/Kg		27	10 - 110
Phenanthrene	1.33	1.21		mg/Kg		90	62 - 120
Anthracene	1.33	1.25		mg/Kg		94	70 - 114
Carbazole	1.33	1.55		mg/Kg		116	65 - 142
Di-n-butyl phthalate	1.33	1.28		mg/Kg		96	65 - 120
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Pyrene	1.33	1.22		mg/Kg		91	61 - 128
Butyl benzyl phthalate	1.33	1.22		mg/Kg		92	71 - 129
Benzo[a]anthracene	1.33	1.17		mg/Kg		88	67 - 122
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
3,3'-Dichlorobenzidine	1.33	1.02		mg/Kg		76	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.28		mg/Kg		96	68 - 134
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		102	68 - 127
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.45		mg/Kg		108	68 - 130
Dibenz(a,h)anthracene	1.33	1.29		mg/Kg		97	64 - 131
Benzo[g,h,i]perylene	1.33	1.37		mg/Kg		103	72 - 131
3 & 4 Methylphenol	1.33	1.19		mg/Kg		89	57 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: LCS 500-644133/2-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644133

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	95		31 - 166
Phenol-d5	103		30 - 153
Nitrobenzene-d5 (Surr)	81		37 - 147
2-Fluorobiphenyl (Surr)	101		43 - 145
2,4,6-Tribromophenol	77		31 - 143
Terphenyl-d14 (Surr)	97		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-644281/2-A
Matrix: Solid
Analysis Batch: 644565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644281

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.514		mg/L		103	80 - 120
Beryllium	0.0500	0.0475		mg/L		95	80 - 120
Boron	1.00	0.892		mg/L		89	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Iron	1.00	0.926		mg/L		93	80 - 120
Lead	0.100	0.0948		mg/L		95	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.493		mg/L		99	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Silver	0.0500	0.0527		mg/L		105	80 - 120
Zinc	0.500	0.541		mg/L		108	80 - 120

Lab Sample ID: LCS 500-644290/2-A
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644290

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Manganese	0.500	0.505		mg/L		101	80 - 120

Lab Sample ID: MB 500-644323/1-A
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644323

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Antimony	<2.0		2.0	0.39	mg/Kg		02/25/22 10:35	02/25/22 18:59			1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/25/22 10:35	02/25/22 18:59			1
Barium	<1.0		1.0	0.11	mg/Kg		02/25/22 10:35	02/25/22 18:59			1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/25/22 10:35	02/25/22 18:59			1
Boron	<5.0		5.0	0.47	mg/Kg		02/25/22 10:35	02/25/22 18:59			1
Cadmium	0.0485	J	0.20	0.036	mg/Kg		02/25/22 10:35	02/25/22 18:59			1
Calcium	6.81	J	20	3.4	mg/Kg		02/25/22 10:35	02/25/22 18:59			1
Chromium	1.18		1.0	0.50	mg/Kg		02/25/22 10:35	02/25/22 18:59			1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/25/22 10:35	02/25/22 18:59			1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: MB 500-644323/1-A
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644323

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	<1.0		1.0	0.28	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Iron	16.2	J	20	10	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Lead	<0.50		0.50	0.23	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Magnesium	<10		10	5.0	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Manganese	0.202	J	1.0	0.15	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Nickel	0.414	J	1.0	0.29	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Potassium	<50		50	18	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Silver	<0.50		0.50	0.13	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Sodium	<100		100	15	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/25/22 10:35	02/25/22 18:59	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/25/22 10:35	02/25/22 18:59	1

Lab Sample ID: LCS 500-644323/2-A
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	184		mg/Kg		92	80 - 120
Beryllium	5.00	4.64		mg/Kg		93	80 - 120
Boron	100	81.7		mg/Kg		82	80 - 120
Cadmium	5.00	4.47		mg/Kg		89	80 - 120
Calcium	1000	925		mg/Kg		92	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Cobalt	50.0	45.8		mg/Kg		92	80 - 120
Copper	25.0	23.4		mg/Kg		94	80 - 120
Iron	100	111		mg/Kg		111	80 - 120
Lead	10.0	9.39		mg/Kg		94	80 - 120
Magnesium	1000	884		mg/Kg		88	80 - 120
Manganese	50.0	46.3		mg/Kg		93	80 - 120
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Potassium	1000	902		mg/Kg		90	80 - 120
Selenium	10.0	8.01		mg/Kg		80	80 - 120
Silver	5.00	4.47		mg/Kg		89	80 - 120
Sodium	1000	905		mg/Kg		91	80 - 120
Thallium	10.0	8.93		mg/Kg		89	80 - 120
Vanadium	50.0	45.3		mg/Kg		91	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-644323/2-A
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: LB 500-643913/2-C
Matrix: Solid
Analysis Batch: 644517

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644281

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:11	1
Boron	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 22:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Cobalt	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 22:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 22:11	1
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Nickel	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 22:11	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Zinc	<0.50		0.50	0.020	mg/L		02/24/22 08:20	02/24/22 22:11	1

Lab Sample ID: LB 500-643921/1-B
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644290

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 15:23	1

Lab Sample ID: 500-212400-1 MS
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: 2615V2-114-B02 (0-0.5)
Prep Type: SPLP East
Prep Batch: 644290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Manganese	<0.025	F1	0.500	<0.025	F1	mg/L		0	75 - 125

Lab Sample ID: 500-212400-1 DU
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: 2615V2-114-B02 (0-0.5)
Prep Type: SPLP East
Prep Batch: 644290

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Manganese	<0.025	F1	<0.025		mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644281/2-A
Matrix: Solid
Analysis Batch: 644561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644281

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.516		mg/L		103	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: LB 500-643913/2-C
 Matrix: Solid
 Analysis Batch: 644485

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 644281

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:19	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644075/13-A
 Matrix: Solid
 Analysis Batch: 644370

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 644075

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:35	1

Lab Sample ID: LCS 500-644075/14-A
 Matrix: Solid
 Analysis Batch: 644370

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 644075

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Mercury	0.00200	0.00194	^1+	mg/L		97	80 - 120

Lab Sample ID: LB 500-643913/2-B
 Matrix: Solid
 Analysis Batch: 644370

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 644075

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:32	1

Lab Sample ID: 500-212400-4 MS
 Matrix: Solid
 Analysis Batch: 644370

Client Sample ID: 2615V2-114-B11 (0-1)
 Prep Type: TCLP
 Prep Batch: 644075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Mercury	<0.00020	^1+	0.00100	0.00107	^1+	mg/L		107	75 - 125

Lab Sample ID: 500-212400-4 DU
 Matrix: Solid
 Analysis Batch: 644370

Client Sample ID: 2615V2-114-B11 (0-1)
 Prep Type: TCLP
 Prep Batch: 644075

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Mercury	<0.00020	^1+	<0.00020	^1+	mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-644343/12-A
 Matrix: Solid
 Analysis Batch: 644606

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 644343

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.017		0.017	0.0056	mg/Kg		02/24/22 18:30	02/25/22 17:40	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

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

Lab Sample ID: LCS 500-644343/13-A
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.165		mg/Kg		99	80 - 120

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

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B02 (0-0.5)
Date Collected: 02/15/22 10:45
Date Received: 02/15/22 17:32

Lab Sample ID: 500-212400-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 15:30	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644657	02/25/22 16:05	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:27	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 19:06	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 20:14	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-114-B02 (0-0.5)
Date Collected: 02/15/22 10:45
Date Received: 02/15/22 17:32

Lab Sample ID: 500-212400-1
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644252	02/24/22 18:45	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644447	02/25/22 14:05	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:38	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:49	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:38	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:26	MJG	TAL CHI

Client Sample ID: 2615V2-114-B03 (0-1)
Date Collected: 02/15/22 12:10
Date Received: 02/15/22 17:32

Lab Sample ID: 500-212400-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 15:42	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B03 (0-1)

Lab Sample ID: 500-212400-2

Date Collected: 02/15/22 12:10

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:31	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 19:08	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:26	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 20:17	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-114-B03 (0-1)

Lab Sample ID: 500-212400-2

Date Collected: 02/15/22 12:10

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644252	02/24/22 19:11	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644447	02/25/22 14:26	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:41	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:53	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:41	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:28	MJG	TAL CHI

Client Sample ID: 2615V2-114-B04 (0-3)

Lab Sample ID: 500-212400-3

Date Collected: 02/15/22 12:15

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 15:46	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644657	02/25/22 16:09	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:34	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B04 (0-3)

Lab Sample ID: 500-212400-3

Date Collected: 02/15/22 12:15

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 19:10	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:28	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 20:19	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-114-B04 (0-3)

Lab Sample ID: 500-212400-3

Date Collected: 02/15/22 12:15

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 11:34	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644447	02/25/22 14:47	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:45	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:56	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:51	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:30	MJG	TAL CHI

Client Sample ID: 2615V2-114-B11 (0-1)

Lab Sample ID: 500-212400-4

Date Collected: 02/15/22 12:50

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 15:49	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644657	02/25/22 16:12	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:38	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 19:12	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Client Sample ID: 2615V2-114-B11 (0-1)

Lab Sample ID: 500-212400-4

Date Collected: 02/15/22 12:50

Matrix: Solid

Date Received: 02/15/22 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:31	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 20:24	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 2615V2-114-B11 (0-1)

Lab Sample ID: 500-212400-4

Date Collected: 02/15/22 12:50

Matrix: Solid

Date Received: 02/15/22 17:32

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644159	02/15/22 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644234	02/24/22 12:01	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644447	02/25/22 15:08	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 19:48	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 19:59	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 15:54	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:32	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212400-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

1

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Chain of Custody Record

542659



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager D Tiebow		Site Contact		Date 02/15/22		COC No	
Company Name WSP		Tel/Email		Lab Contact D. Wright		Carrier		2 of 2 COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOC SVOC metal TCLP H Solids		 500-212400 COC		Sampler	
City/State/Zip		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only	
Phone		TAT if different from Below _____						Walk-in Client	
Fax		<input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week (standard) <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling	
Project Name WO 08 Greenway								Job / SDG No	
Site FAI 90/24/290								500-212400	
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			Sample Specific Notes
1	2615V2-114-B02(0-0.5)	2/15/22	10:45	G	S	5	X	X	X
2	2615V2-114-B03(0-1)	2/15/22	12:10	G	S	5	X	X	X
3	2615V2-114-B04(0-3)	2/15/22	12:15	G	S	5	X	X	X
4	2615V2-114-B11(0-1)	2/15/22	12:50	G	S	5	X	X	X
	2615V2-114-B05(0-)	2/15/22	14:15	G	S	5	X	X	X
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other									
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments <div style="text-align: right; font-size: 18pt; font-weight: bold;">53→4.3</div>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____			
Relinquished by Carlynn Cooper		Company WSP		Date/Time 2/15/22 1415		Received by P. Neal		Company eurofins	
Relinquished by P. Neal		Company eurofins		Date/Time 2/15/22 1732		Received by		Date/Time	
Relinquished by		Company		Date/Time		Received in Laboratory by Stephanie Hernandez		Company EETA	
								Date/Time 2/15/22 1732	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212400-1

Login Number: 212400

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-212468-1

Client Project/Site: IDOT - 196-002-WO008 Byrne Interchange

For:

WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
3/3/2022 2:09:36 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Job ID: 500-212468-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212468-1

Receipt

The samples were received on 2/16/2022 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

Method 8260B: Surrogate recovery for the following samples were outside the upper control limit: 2615V2-114-B05 (0-3) (500-212468-1), 2615V2-114-B06 (0-1) (500-212468-2), 2615V2-114-B08 (0-2) (500-212468-4) and 2615V2-114-B09 (0-1) (500-212468-6). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644831 was outside the method criteria for the following analyte(s): multi analytes. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-644523 and analytical batch 500-644831 had 1 analyte outside control limits: Hexachlorocyclopentadiene. These results have been reported and qualified.

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

Metals

Method 6010B: The method blank for preparation batch 500-644579 and analytical batch 500-644767 contained Chromium 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.

Method 6010B: The method blank for preparation batch 500-644579 and analytical batch 500-645033 contained Iron 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

Method 9045D: Soil pH holding time is immediate. The laboratory has established an in lab holding time of 7 days for soils. The following samples were analyzed outside the laboratory holding time due to an equipment malfunction and have been flagged accordingly. 2615V2-114-B05 (0-3) (500-212468-1), 2615V2-114-B06 (0-1) (500-212468-2) and 2615V2-114-B08 (0-2) (500-212468-4).

Method 9045D: Soil pH holding time is immediate. The laboratory has established an in lab holding time of 7 days for soils. The following samples were analyzed outside the laboratory holding time due to an equipment malfunction and have been flagged accordingly. 2615V2-114-B10 (0-2) (500-212468-5) and 2615V2-114-B09 (0-1) (500-212468-6).

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

Organic Prep

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

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B05 (0-3)

Lab Sample ID: 500-212468-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.018	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.044	J	0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.019	J	0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.015	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.030	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0079	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.30	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.7		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	8.7		2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Calcium	45000	B	54	9.2	mg/Kg	5	☼	6010B	Total/NA
Chromium	12	B	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	320	B	0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Silver	0.093	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Sodium	620		54	8.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.79		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.090	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.055		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.25	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.5	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-114-B06 (0-1)

Lab Sample ID: 500-212468-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.070		0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.048	J	0.071	0.0064	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.016	J	0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.39		0.035	0.0063	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.27		0.18	0.041	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.25		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.84		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.23		0.035	0.0058	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.17	J	0.18	0.087	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B06 (0-1) (Continued)

Lab Sample ID: 500-212468-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1.0		0.035	0.0065	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.91		0.035	0.0069	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.44		0.035	0.0047	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.45		0.035	0.0095	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.64		0.035	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.035	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.49		0.035	0.0068	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.035	0.0091	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.048		0.035	0.0068	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.035	0.011	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.23	J	1.1	0.20	mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.9		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	37		0.53	0.060	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.28		0.21	0.049	mg/Kg	1	✳	6010B	Total/NA
Boron	10		2.6	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.14	B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	140000	B	53	8.9	mg/Kg	5	✳	6010B	Total/NA
Chromium	8.6	B	0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	5.7		0.26	0.069	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	11000	B	53	27	mg/Kg	5	✳	6010B	Total/NA
Lead	40		0.26	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	77000		26	13	mg/Kg	5	✳	6010B	Total/NA
Manganese	280	B	0.53	0.076	mg/Kg	1	✳	6010B	Total/NA
Nickel	15		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	880		26	9.3	mg/Kg	1	✳	6010B	Total/NA
Sodium	530		53	7.8	mg/Kg	1	✳	6010B	Total/NA
Vanadium	9.7		0.26	0.062	mg/Kg	1	✳	6010B	Total/NA
Zinc	51		1.1	0.46	mg/Kg	1	✳	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.063	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.030		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	7.6	HF	0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

- 1
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- 14
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Client Sample ID: 2615V2-114-B08 (0-2)

Lab Sample ID: 500-212468-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.018	J	0.034	0.0053	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.029	J	0.070	0.0064	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.020	J	0.034	0.0046	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.020	J	0.034	0.0062	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.015	J	0.034	0.0049	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.22		0.034	0.0048	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.066		0.034	0.0058	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.40		0.034	0.0064	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.46		0.034	0.0069	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.20		0.034	0.0047	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.24		0.034	0.0094	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.30		0.034	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.034	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.25		0.034	0.0067	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.087		0.034	0.0090	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B08 (0-2) (Continued)

Lab Sample ID: 500-212468-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.024	J	0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.077		0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.51	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.20	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	9.6		2.6	0.24	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Calcium	99000	B	51	8.7	mg/Kg	5	☼	6010B	Total/NA
Chromium	13	B	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.8		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	51	27	mg/Kg	5	☼	6010B	Total/NA
Lead	45		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	52000		26	13	mg/Kg	5	☼	6010B	Total/NA
Manganese	360	B	0.51	0.074	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		26	9.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	680		51	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.39	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.11		0.016	0.0054	mg/Kg	1	☼	7471B	Total/NA
pH	7.5	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-114-B10 (0-2)

Lab Sample ID: 500-212468-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.080		0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.051	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.034	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.044		0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.061	J	0.20	0.046	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.058		0.039	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.66		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.13		0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.84		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.71		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.35		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.37		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.50		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.36		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.094		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-212468-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Client Sample ID: 2615V2-114-B10 (0-2) (Continued)

Lab Sample ID: 500-212468-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.032	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.093		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.9		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	8.8		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.52	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000	B	58	9.8	mg/Kg	5	☼	6010B	Total/NA
Chromium	12	B	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	33		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	64		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	310	B	0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.51	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0068		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.37	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.11		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.7	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-114-B09 (0-1)

Lab Sample ID: 500-212468-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.015	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.018	J	0.082	0.0074	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.014	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.015	J	0.040	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.017	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.24		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.048		0.040	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.37		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.36		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.17		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.20		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.088		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.042		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B09 (0-1) (Continued)

Lab Sample ID: 500-212468-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.039	J	0.040	0.013	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.38	J	1.2	0.23	mg/Kg	1	✳		6010B	Total/NA
Arsenic	6.8		0.59	0.20	mg/Kg	1	✳		6010B	Total/NA
Barium	65		0.59	0.067	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.48		0.23	0.055	mg/Kg	1	✳		6010B	Total/NA
Boron	7.3		2.9	0.27	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.16	B	0.12	0.021	mg/Kg	1	✳		6010B	Total/NA
Calcium	58000	B	59	9.9	mg/Kg	5	✳		6010B	Total/NA
Chromium	13	B	0.59	0.29	mg/Kg	1	✳		6010B	Total/NA
Cobalt	9.7		0.29	0.077	mg/Kg	1	✳		6010B	Total/NA
Copper	25		0.59	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	16000	B	12	6.1	mg/Kg	1	✳		6010B	Total/NA
Lead	34		0.29	0.14	mg/Kg	1	✳		6010B	Total/NA
Magnesium	26000		5.9	2.9	mg/Kg	1	✳		6010B	Total/NA
Manganese	390	B	0.59	0.085	mg/Kg	1	✳		6010B	Total/NA
Nickel	24		0.59	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	✳		6010B	Total/NA
Sodium	230		59	8.7	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.58	J	0.59	0.29	mg/Kg	1	✳		6010B	Total/NA
Vanadium	16		0.29	0.069	mg/Kg	1	✳		6010B	Total/NA
Zinc	68		1.2	0.51	mg/Kg	1	✳		6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.098	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.032	J	0.50	0.020	mg/L	1			6010B	TCLP
Mercury	0.055		0.019	0.0062	mg/Kg	1	✳		7471B	Total/NA
pH	7.7	HF	0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212468-1	2615V2-114-B05 (0-3)	Solid	02/16/22 11:45	02/16/22 16:45
500-212468-2	2615V2-114-B06 (0-1)	Solid	02/16/22 12:15	02/16/22 16:45
500-212468-4	2615V2-114-B08 (0-2)	Solid	02/16/22 12:48	02/16/22 16:45
500-212468-5	2615V2-114-B10 (0-2)	Solid	02/16/22 14:05	02/16/22 16:45
500-212468-6	2615V2-114-B09 (0-1)	Solid	02/16/22 14:10	02/16/22 16:45

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B05 (0-3)

Lab Sample ID: 500-212468-1

Date Collected: 02/16/22 11:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
1,2-Dichloropropene	<0.0018		0.0018	0.00047	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0013	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/16/22 17:25	02/28/22 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	75 - 131	02/16/22 17:25	02/28/22 16:44	1
Dibromofluoromethane	116		75 - 126	02/16/22 17:25	02/28/22 16:44	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	02/16/22 17:25	02/28/22 16:44	1
Toluene-d8 (Surr)	121		75 - 124	02/16/22 17:25	02/28/22 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/25/22 09:35	02/28/22 17:56	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/25/22 09:35	02/28/22 17:56	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/25/22 09:35	02/28/22 17:56	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/25/22 09:35	02/28/22 17:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B05 (0-3)

Lab Sample ID: 500-212468-1

Date Collected: 02/16/22 11:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Isophorone	<0.18		0.18	0.041	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Naphthalene	0.018	J	0.036	0.0056	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Hexachlorocyclopentadiene	<0.73	*	0.73	0.21	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2-Methylnaphthalene	0.044	J	0.073	0.0067	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Acenaphthene	0.019	J	0.036	0.0065	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Phenanthrene	0.13		0.036	0.0051	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Carbazole	<0.18		0.18	0.091	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Fluoranthene	0.015	J	0.036	0.0067	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Pyrene	0.030	J	0.036	0.0072	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1
Benzo[a]anthracene	0.0079	J	0.036	0.0049	mg/Kg	✱	02/25/22 09:35	02/28/22 17:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B05 (0-3)

Lab Sample ID: 500-212468-1

Date Collected: 02/16/22 11:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.028	J	0.036	0.0099	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	✳	02/25/22 09:35	02/28/22 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	85		31 - 166				02/25/22 09:35	02/28/22 17:56	1
Phenol-d5	84		30 - 153				02/25/22 09:35	02/28/22 17:56	1
Nitrobenzene-d5 (Surr)	53		37 - 147				02/25/22 09:35	02/28/22 17:56	1
2-Fluorobiphenyl (Surr)	75		43 - 145				02/25/22 09:35	02/28/22 17:56	1
2,4,6-Tribromophenol	76		31 - 143				02/25/22 09:35	02/28/22 17:56	1
Terphenyl-d14 (Surr)	86		42 - 157				02/25/22 09:35	02/28/22 17:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.21	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Arsenic	7.7		0.54	0.19	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Barium	37		0.54	0.062	mg/Kg	✳	02/26/22 05:00	02/28/22 17:41	1
Beryllium	0.49		0.22	0.051	mg/Kg	✳	02/26/22 05:00	02/28/22 17:41	1
Boron	8.7		2.7	0.25	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Calcium	45000	B	54	9.2	mg/Kg	✳	02/26/22 05:00	02/28/22 17:45	5
Chromium	12	B	0.54	0.27	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Cobalt	12		0.27	0.071	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Copper	32		0.54	0.15	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Iron	18000	B	11	5.7	mg/Kg	✳	02/26/22 05:00	02/28/22 17:41	1
Lead	14		0.27	0.13	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Magnesium	22000		5.4	2.7	mg/Kg	✳	02/26/22 05:00	02/28/22 17:41	1
Manganese	320	B	0.54	0.079	mg/Kg	✳	02/26/22 05:00	02/28/22 17:41	1
Nickel	32		0.54	0.16	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Potassium	1800		27	9.6	mg/Kg	✳	02/26/22 05:00	02/28/22 17:41	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	02/26/22 05:00	02/28/22 17:41	1
Silver	0.093	J	0.27	0.070	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Sodium	620		54	8.1	mg/Kg	✳	02/26/22 05:00	02/28/22 17:41	1
Thallium	0.79		0.54	0.27	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Vanadium	14		0.27	0.064	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1
Zinc	41		1.1	0.48	mg/Kg	✳	02/26/22 05:00	02/27/22 18:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 00:01	1
Boron	0.090	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:01	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B05 (0-3)

Lab Sample ID: 500-212468-1

Date Collected: 02/16/22 11:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 00:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:01	1
Cobalt	0.055		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:01	1
Iron	0.25	J	0.40	0.20	mg/L		02/28/22 08:56	03/01/22 00:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 00:01	1
Manganese	2.2		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:01	1
Nickel	0.13		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 00:01	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:01	1
Zinc	<0.50		0.50	0.020	mg/L		02/28/22 08:56	03/01/22 00:01	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.030		0.025	0.010	mg/L		03/01/22 07:55	03/01/22 16:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/01/22 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 16:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 16:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0059	mg/Kg	☼	03/01/22 14:00	03/02/22 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5	HF	0.2	0.2	SU			02/24/22 07:34	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B06 (0-1)

Lab Sample ID: 500-212468-2

Date Collected: 02/16/22 12:15

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
1,2-Dichloropropene	<0.0018		0.0018	0.00046	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✱	02/16/22 17:25	02/28/22 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	75 - 131	02/16/22 17:25	02/28/22 17:11	1
Dibromofluoromethane	113		75 - 126	02/16/22 17:25	02/28/22 17:11	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	02/16/22 17:25	02/28/22 17:11	1
Toluene-d8 (Surr)	124		75 - 124	02/16/22 17:25	02/28/22 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	✱	02/25/22 09:35	02/28/22 18:17	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	✱	02/25/22 09:35	02/28/22 18:17	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	✱	02/25/22 09:35	02/28/22 18:17	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	✱	02/25/22 09:35	02/28/22 18:17	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B06 (0-1)

Lab Sample ID: 500-212468-2

Date Collected: 02/16/22 12:15

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Naphthalene	0.070		0.035	0.0054	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Hexachlorocyclopentadiene	<0.71	*	0.71	0.20	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2-Methylnaphthalene	0.048	J	0.071	0.0064	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Acenaphthylene	0.016	J	0.035	0.0046	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Acenaphthene	0.39		0.035	0.0063	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Dibenzofuran	0.27		0.18	0.041	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Fluorene	0.25		0.035	0.0049	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Phenanthrene	0.84		0.035	0.0049	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Anthracene	0.23		0.035	0.0058	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Carbazole	0.17	J	0.18	0.087	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Fluoranthene	1.0		0.035	0.0065	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Pyrene	0.91		0.035	0.0069	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1
Benzo[a]anthracene	0.44		0.035	0.0047	mg/Kg	☼	02/25/22 09:35	02/28/22 18:17	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B06 (0-1)

Lab Sample ID: 500-212468-2

Date Collected: 02/16/22 12:15

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.45		0.035	0.0095	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
Benzo[b]fluoranthene	0.64		0.035	0.0075	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
Benzo[k]fluoranthene	0.27		0.035	0.010	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
Benzo[a]pyrene	0.49		0.035	0.0068	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
Indeno[1,2,3-cd]pyrene	0.16		0.035	0.0091	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
Dibenz(a,h)anthracene	0.048		0.035	0.0068	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
Benzo[g,h,i]perylene	0.14		0.035	0.011	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	✳	02/25/22 09:35	02/28/22 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		31 - 166				02/25/22 09:35	02/28/22 18:17	1
Phenol-d5	98		30 - 153				02/25/22 09:35	02/28/22 18:17	1
Nitrobenzene-d5 (Surr)	57		37 - 147				02/25/22 09:35	02/28/22 18:17	1
2-Fluorobiphenyl (Surr)	80		43 - 145				02/25/22 09:35	02/28/22 18:17	1
2,4,6-Tribromophenol	72		31 - 143				02/25/22 09:35	02/28/22 18:17	1
Terphenyl-d14 (Surr)	85		42 - 157				02/25/22 09:35	02/28/22 18:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.1	0.20	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Arsenic	4.9		0.53	0.18	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Barium	37		0.53	0.060	mg/Kg	✳	02/26/22 05:00	02/28/22 17:54	1
Beryllium	0.28		0.21	0.049	mg/Kg	✳	02/26/22 05:00	02/28/22 17:54	1
Boron	10		2.6	0.25	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Cadmium	0.14	B	0.11	0.019	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Calcium	140000	B	53	8.9	mg/Kg	✳	02/26/22 05:00	02/28/22 17:58	5
Chromium	8.6	B	0.53	0.26	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Cobalt	5.7		0.26	0.069	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Copper	20		0.53	0.15	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Iron	11000	B	53	27	mg/Kg	✳	02/26/22 05:00	02/28/22 17:58	5
Lead	40		0.26	0.12	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Magnesium	77000		26	13	mg/Kg	✳	02/26/22 05:00	02/28/22 17:58	5
Manganese	280	B	0.53	0.076	mg/Kg	✳	02/26/22 05:00	02/28/22 17:54	1
Nickel	15		0.53	0.15	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Potassium	880		26	9.3	mg/Kg	✳	02/26/22 05:00	02/28/22 17:54	1
Selenium	<0.53		0.53	0.31	mg/Kg	✳	02/26/22 05:00	02/28/22 17:54	1
Silver	<0.26		0.26	0.068	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Sodium	530		53	7.8	mg/Kg	✳	02/26/22 05:00	02/28/22 17:54	1
Thallium	<0.53		0.53	0.26	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Vanadium	9.7		0.26	0.062	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1
Zinc	51		1.1	0.46	mg/Kg	✳	02/26/22 05:00	02/27/22 18:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 00:05	1
Boron	0.17	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:05	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B06 (0-1)

Lab Sample ID: 500-212468-2

Date Collected: 02/16/22 12:15

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 00:05	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:05	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:05	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	03/01/22 00:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 11:33	1
Manganese	1.2		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:05	1
Nickel	0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:05	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 00:05	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:05	1
Zinc	0.063	J	0.50	0.020	mg/L		02/28/22 08:56	03/01/22 00:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/01/22 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 16:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 16:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0059	mg/Kg	☆	03/01/22 14:00	03/02/22 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6	HF	0.2	0.2	SU			02/24/22 07:36	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B08 (0-2)

Lab Sample ID: 500-212468-4

Date Collected: 02/16/22 12:48

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0093	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
1,2-Dichloropropene	<0.0021		0.0021	0.00055	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Vinyl acetate	<0.0053		0.0053	0.0019	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1
Xylenes, Total	<0.0043		0.0043	0.00068	mg/Kg	✱	02/16/22 17:25	02/28/22 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	75 - 131	02/16/22 17:25	02/28/22 18:05	1
Dibromofluoromethane	116		75 - 126	02/16/22 17:25	02/28/22 18:05	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/16/22 17:25	02/28/22 18:05	1
Toluene-d8 (Surr)	123		75 - 124	02/16/22 17:25	02/28/22 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.077	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B08 (0-2)

Lab Sample ID: 500-212468-4

Date Collected: 02/16/22 12:48

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.042	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Hexachloroethane	<0.17		0.17	0.053	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Isophorone	<0.17		0.17	0.039	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Naphthalene	0.018	J	0.034	0.0053	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Hexachlorocyclopentadiene	<0.70	*	0.70	0.20	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2-Methylnaphthalene	0.029	J	0.070	0.0064	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2-Nitroaniline	<0.17		0.17	0.047	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Acenaphthylene	0.020	J	0.034	0.0046	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Acenaphthene	0.020	J	0.034	0.0062	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Fluorene	0.015	J	0.034	0.0049	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Pentachlorophenol	<0.70		0.70	0.55	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Phenanthrene	0.22		0.034	0.0048	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Anthracene	0.066		0.034	0.0058	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Carbazole	<0.17		0.17	0.086	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Fluoranthene	0.40		0.034	0.0064	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Pyrene	0.46		0.034	0.0069	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1
Benzo[a]anthracene	0.20		0.034	0.0047	mg/Kg	✱	02/25/22 09:35	02/28/22 18:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B08 (0-2)

Lab Sample ID: 500-212468-4

Date Collected: 02/16/22 12:48

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.24		0.034	0.0094	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
Benzo[b]fluoranthene	0.30		0.034	0.0075	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
Benzo[k]fluoranthene	0.15		0.034	0.010	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
Benzo[a]pyrene	0.25		0.034	0.0067	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
Indeno[1,2,3-cd]pyrene	0.087		0.034	0.0090	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
Dibenz(a,h)anthracene	0.024 J		0.034	0.0067	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
Benzo[g,h,i]perylene	0.077		0.034	0.011	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	✳	02/25/22 09:35	02/28/22 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		31 - 166				02/25/22 09:35	02/28/22 18:59	1
Phenol-d5	89		30 - 153				02/25/22 09:35	02/28/22 18:59	1
Nitrobenzene-d5 (Surr)	59		37 - 147				02/25/22 09:35	02/28/22 18:59	1
2-Fluorobiphenyl (Surr)	79		43 - 145				02/25/22 09:35	02/28/22 18:59	1
2,4,6-Tribromophenol	72		31 - 143				02/25/22 09:35	02/28/22 18:59	1
Terphenyl-d14 (Surr)	91		42 - 157				02/25/22 09:35	02/28/22 18:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34 J		1.0	0.20	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Arsenic	6.1		0.51	0.17	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Barium	53		0.51	0.058	mg/Kg	✳	02/26/22 05:00	02/28/22 18:08	1
Beryllium	0.40		0.20	0.048	mg/Kg	✳	02/26/22 05:00	02/28/22 18:08	1
Boron	9.6		2.6	0.24	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Cadmium	0.17 B		0.10	0.018	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Calcium	99000 B		51	8.7	mg/Kg	✳	02/26/22 05:00	02/28/22 18:11	5
Chromium	13 B		0.51	0.25	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Cobalt	8.8		0.26	0.067	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Copper	27		0.51	0.14	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Iron	20000 B		51	27	mg/Kg	✳	02/26/22 05:00	02/28/22 18:11	5
Lead	45		0.26	0.12	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Magnesium	52000		26	13	mg/Kg	✳	02/26/22 05:00	02/28/22 18:11	5
Manganese	360 B		0.51	0.074	mg/Kg	✳	02/26/22 05:00	02/28/22 18:08	1
Nickel	23		0.51	0.15	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Potassium	1300		26	9.0	mg/Kg	✳	02/26/22 05:00	02/28/22 18:08	1
Selenium	<0.51		0.51	0.30	mg/Kg	✳	02/26/22 05:00	02/28/22 18:08	1
Silver	<0.26		0.26	0.066	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Sodium	680		51	7.6	mg/Kg	✳	02/26/22 05:00	02/28/22 18:08	1
Thallium	0.39 J		0.51	0.25	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Vanadium	12		0.26	0.060	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1
Zinc	77		1.0	0.45	mg/Kg	✳	02/26/22 05:00	02/27/22 18:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36 J		0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 00:12	1
Boron	0.13 J		0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:12	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B08 (0-2)

Lab Sample ID: 500-212468-4

Date Collected: 02/16/22 12:48

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 00:12	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:12	1
Cobalt	0.026		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:12	1
Iron	0.21	J	0.40	0.20	mg/L		02/28/22 08:56	03/01/22 00:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 11:37	1
Manganese	2.6		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:12	1
Nickel	0.028		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 00:12	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:12	1
Zinc	0.21	J	0.50	0.020	mg/L		02/28/22 08:56	03/01/22 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/01/22 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0054	mg/Kg	☆	03/01/22 14:00	03/02/22 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5	HF	0.2	0.2	SU			02/24/22 07:38	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B10 (0-2)

Lab Sample ID: 500-212468-5

Date Collected: 02/16/22 14:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
1,2-Dichloropropene	<0.0019		0.0019	0.00048	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✱	02/16/22 17:25	02/28/22 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		75 - 131	02/16/22 17:25	02/28/22 18:32	1
Dibromofluoromethane	115		75 - 126	02/16/22 17:25	02/28/22 18:32	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/16/22 17:25	02/28/22 18:32	1
Toluene-d8 (Surr)	120		75 - 124	02/16/22 17:25	02/28/22 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	✱	02/25/22 09:35	03/02/22 15:07	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✱	02/25/22 09:35	03/02/22 15:07	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/25/22 09:35	03/02/22 15:07	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	02/25/22 09:35	03/02/22 15:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B10 (0-2)

Lab Sample ID: 500-212468-5

Date Collected: 02/16/22 14:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Naphthalene	0.080		0.039	0.0061	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Hexachlorocyclopentadiene	<0.80	*	0.80	0.23	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2-Methylnaphthalene	0.051	J	0.080	0.0073	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Acenaphthylene	0.034	J	0.039	0.0052	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Acenaphthene	0.044		0.039	0.0071	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Dibenzofuran	0.061	J	0.20	0.046	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Fluorene	0.058		0.039	0.0056	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Phenanthrene	0.66		0.039	0.0055	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Anthracene	0.13		0.039	0.0066	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Fluoranthene	0.84		0.039	0.0073	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Pyrene	0.71		0.039	0.0078	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1
Benzo[a]anthracene	0.35		0.039	0.0053	mg/Kg	☼	02/25/22 09:35	03/02/22 15:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B10 (0-2)

Lab Sample ID: 500-212468-5

Date Collected: 02/16/22 14:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.37		0.039	0.011	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
Benzo[b]fluoranthene	0.50		0.039	0.0085	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
Benzo[k]fluoranthene	0.15		0.039	0.012	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
Benzo[a]pyrene	0.36		0.039	0.0076	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
Indeno[1,2,3-cd]pyrene	0.094		0.039	0.010	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
Dibenz(a,h)anthracene	0.032 J		0.039	0.0076	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
Benzo[g,h,i]perylene	0.093		0.039	0.013	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	02/25/22 09:35	03/02/22 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	116		31 - 166				02/25/22 09:35	03/02/22 15:07	1
Phenol-d5	108		30 - 153				02/25/22 09:35	03/02/22 15:07	1
Nitrobenzene-d5 (Surr)	95		37 - 147				02/25/22 09:35	03/02/22 15:07	1
2-Fluorobiphenyl (Surr)	91		43 - 145				02/25/22 09:35	03/02/22 15:07	1
2,4,6-Tribromophenol	65		31 - 143				02/25/22 09:35	03/02/22 15:07	1
Terphenyl-d14 (Surr)	92		42 - 157				02/25/22 09:35	03/02/22 15:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36 J		1.2	0.23	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Arsenic	6.9		0.58	0.20	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Barium	53		0.58	0.066	mg/Kg	✳	02/26/22 05:00	02/28/22 18:14	1
Beryllium	0.48		0.23	0.054	mg/Kg	✳	02/26/22 05:00	02/28/22 18:14	1
Boron	8.8		2.9	0.27	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Cadmium	0.52 B		0.12	0.021	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Calcium	69000 B		58	9.8	mg/Kg	✳	02/26/22 05:00	02/28/22 18:18	5
Chromium	12 B		0.58	0.29	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Cobalt	9.7		0.29	0.076	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Copper	33		0.58	0.16	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Iron	16000 B		12	6.0	mg/Kg	✳	02/26/22 05:00	02/28/22 18:14	1
Lead	64		0.29	0.13	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Magnesium	29000		5.8	2.9	mg/Kg	✳	02/26/22 05:00	02/28/22 18:14	1
Manganese	310 B		0.58	0.084	mg/Kg	✳	02/26/22 05:00	02/28/22 18:14	1
Nickel	25		0.58	0.17	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Potassium	1400		29	10	mg/Kg	✳	02/26/22 05:00	02/28/22 18:14	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	02/26/22 05:00	02/28/22 18:14	1
Silver	<0.29		0.29	0.075	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Sodium	210		58	8.6	mg/Kg	✳	02/26/22 05:00	02/28/22 18:14	1
Thallium	0.51 J		0.58	0.29	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Vanadium	14		0.29	0.068	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1
Zinc	100		1.2	0.51	mg/Kg	✳	02/26/22 05:00	02/27/22 18:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36 J		0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 00:15	1
Boron	0.11 J		0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:15	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B10 (0-2)

Lab Sample ID: 500-212468-5

Date Collected: 02/16/22 14:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0068		0.0050	0.0020	mg/L		02/28/22 08:56	03/01/22 00:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:15	1
Cobalt	0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:15	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	03/01/22 00:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	03/01/22 00:15	1
Manganese	2.0		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:15	1
Nickel	0.032		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	03/01/22 00:15	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	03/01/22 00:15	1
Zinc	0.37	J	0.50	0.020	mg/L		02/28/22 08:56	03/01/22 00:15	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/01/22 07:55	03/01/22 16:52	1
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/01/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 17:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 17:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 17:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.018	0.0061	mg/Kg	☼	03/01/22 14:00	03/02/22 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7	HF	0.2	0.2	SU			02/24/22 07:43	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B09 (0-1)

Lab Sample ID: 500-212468-6

Date Collected: 02/16/22 14:10

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
1,2-Dichloropropene	<0.0019		0.0019	0.00049	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☆	02/16/22 17:25	02/28/22 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	75 - 131	02/16/22 17:25	02/28/22 18:58	1
Dibromofluoromethane	116		75 - 126	02/16/22 17:25	02/28/22 18:58	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	02/16/22 17:25	02/28/22 18:58	1
Toluene-d8 (Surr)	120		75 - 124	02/16/22 17:25	02/28/22 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☆	02/25/22 09:35	03/02/22 17:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☆	02/25/22 09:35	03/02/22 17:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☆	02/25/22 09:35	03/02/22 17:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☆	02/25/22 09:35	03/02/22 17:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B09 (0-1)

Lab Sample ID: 500-212468-6

Date Collected: 02/16/22 14:10

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Naphthalene	0.015	J	0.040	0.0062	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Hexachlorocyclopentadiene	<0.82	*	0.82	0.23	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2-Methylnaphthalene	0.018	J	0.082	0.0074	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Acenaphthylene	0.014	J	0.040	0.0053	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Acenaphthene	0.015	J	0.040	0.0073	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Fluorene	0.017	J	0.040	0.0057	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Phenanthrene	0.24		0.040	0.0056	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Anthracene	0.048		0.040	0.0068	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Fluoranthene	0.37		0.040	0.0075	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Pyrene	0.36		0.040	0.0080	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Benzo[a]anthracene	0.17		0.040	0.0054	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B09 (0-1)

Lab Sample ID: 500-212468-6

Date Collected: 02/16/22 14:10

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.20		0.040	0.011	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Benzo[b]fluoranthene	0.27		0.040	0.0087	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Benzo[k]fluoranthene	0.088		0.040	0.012	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Benzo[a]pyrene	0.20		0.040	0.0078	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Indeno[1,2,3-cd]pyrene	0.042		0.040	0.010	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Dibenz(a,h)anthracene	0.012	J	0.040	0.0078	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
Benzo[g,h,i]perylene	0.039	J	0.040	0.013	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	✱	02/25/22 09:35	03/02/22 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		31 - 166	02/25/22 09:35	03/02/22 17:08	1
Phenol-d5	86		30 - 153	02/25/22 09:35	03/02/22 17:08	1
Nitrobenzene-d5 (Surr)	74		37 - 147	02/25/22 09:35	03/02/22 17:08	1
2-Fluorobiphenyl (Surr)	76		43 - 145	02/25/22 09:35	03/02/22 17:08	1
2,4,6-Tribromophenol	60		31 - 143	02/25/22 09:35	03/02/22 17:08	1
Terphenyl-d14 (Surr)	91		42 - 157	02/25/22 09:35	03/02/22 17:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.23	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Arsenic	6.8		0.59	0.20	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Barium	65		0.59	0.067	mg/Kg	✱	02/26/22 05:00	02/28/22 18:21	1
Beryllium	0.48		0.23	0.055	mg/Kg	✱	02/26/22 05:00	02/28/22 18:21	1
Boron	7.3		2.9	0.27	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Cadmium	0.16	B	0.12	0.021	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Calcium	58000	B	59	9.9	mg/Kg	✱	02/26/22 05:00	02/28/22 18:24	5
Chromium	13	B	0.59	0.29	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Cobalt	9.7		0.29	0.077	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Copper	25		0.59	0.16	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Iron	16000	B	12	6.1	mg/Kg	✱	02/26/22 05:00	02/28/22 18:21	1
Lead	34		0.29	0.14	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Magnesium	26000		5.9	2.9	mg/Kg	✱	02/26/22 05:00	02/28/22 18:21	1
Manganese	390	B	0.59	0.085	mg/Kg	✱	02/26/22 05:00	02/28/22 18:21	1
Nickel	24		0.59	0.17	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Potassium	1400		29	10	mg/Kg	✱	02/26/22 05:00	02/28/22 18:21	1
Selenium	<0.59		0.59	0.34	mg/Kg	✱	02/26/22 05:00	02/28/22 18:21	1
Silver	<0.29		0.29	0.076	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Sodium	230		59	8.7	mg/Kg	✱	02/26/22 05:00	02/28/22 18:21	1
Thallium	0.58	J	0.59	0.29	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Vanadium	16		0.29	0.069	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1
Zinc	68		1.2	0.51	mg/Kg	✱	02/26/22 05:00	02/27/22 18:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	03/01/22 00:19	1
Boron	0.098	J	0.50	0.050	mg/L		02/28/22 08:56	03/01/22 00:19	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B09 (0-1)

Lab Sample ID: 500-212468-6

Date Collected: 02/16/22 14:10

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0021	J	0.0050	0.0020	mg/L	-	02/28/22 08:56	03/01/22 00:19	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/28/22 08:56	03/01/22 00:19	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/28/22 08:56	03/01/22 00:19	1
Iron	<0.40		0.40	0.20	mg/L	-	02/28/22 08:56	03/01/22 00:19	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/28/22 08:56	03/01/22 00:19	1
Manganese	1.6		0.025	0.010	mg/L	-	02/28/22 08:56	03/01/22 00:19	1
Nickel	0.013	J	0.025	0.010	mg/L	-	02/28/22 08:56	03/01/22 00:19	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/28/22 08:56	03/01/22 00:19	1
Silver	<0.025		0.025	0.010	mg/L	-	02/28/22 08:56	03/01/22 00:19	1
Zinc	0.032	J	0.50	0.020	mg/L	-	02/28/22 08:56	03/01/22 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L	-	03/01/22 07:55	03/01/22 16:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/28/22 08:56	02/28/22 17:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/28/22 08:56	02/28/22 17:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/28/22 14:20	03/01/22 17:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.019	0.0062	mg/Kg	☆	03/01/22 14:00	03/02/22 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7	HF	0.2	0.2	SU	-		02/24/22 07:46	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

GC/MS VOA

Prep Batch: 644720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	5035	
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	5035	
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	5035	
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	5035	
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	5035	
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	5035	

Analysis Batch: 644743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	8260B	644720
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	8260B	644720
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	8260B	644720
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	8260B	644720
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	8260B	644720
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	8260B	644720
MB 500-644743/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-644743/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	3541	
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	3541	
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	3541	
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	3541	
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	3541	
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	3541	
MB 500-644523/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644523/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 644831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	8270D	644523
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	8270D	644523
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	8270D	644523
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	8270D	644523
MB 500-644523/1-A	Method Blank	Total/NA	Solid	8270D	644523
LCS 500-644523/2-A	Lab Control Sample	Total/NA	Solid	8270D	644523

Analysis Batch: 645145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	8270D	644523
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	8270D	644523

Metals

Prep Batch: 644579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	3050B	
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	3050B	
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	3050B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Metals (Continued)

Prep Batch: 644579 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	3050B	
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	3050B	
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	3050B	
MB 500-644579/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644579/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 500-644579/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 644598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	TCLP	Solid	1311	
500-212468-2	2615V2-114-B06 (0-1)	TCLP	Solid	1311	
500-212468-3	2615V2-114-B07 (0-2)	TCLP	Solid	1311	
500-212468-4	2615V2-114-B08 (0-2)	TCLP	Solid	1311	
500-212468-5	2615V2-114-B10 (0-2)	TCLP	Solid	1311	
500-212468-6	2615V2-114-B09 (0-1)	TCLP	Solid	1311	
LB 500-644598/2-B	Method Blank	TCLP	Solid	1311	
LB 500-644598/2-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 644601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	SPLP East	Solid	1312	
500-212468-2	2615V2-114-B06 (0-1)	SPLP East	Solid	1312	
500-212468-3	2615V2-114-B07 (0-2)	SPLP East	Solid	1312	
500-212468-4	2615V2-114-B08 (0-2)	SPLP East	Solid	1312	
500-212468-5	2615V2-114-B10 (0-2)	SPLP East	Solid	1312	
500-212468-6	2615V2-114-B09 (0-1)	SPLP East	Solid	1312	
LB 500-644601/1-B	Method Blank	SPLP East	Solid	1312	

Analysis Batch: 644767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	6010B	644579
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	6010B	644579
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	6010B	644579
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	6010B	644579
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	6010B	644579
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	6010B	644579
MB 500-644579/1-A	Method Blank	Total/NA	Solid	6010B	644579
LCS 500-644579/2-A	Lab Control Sample	Total/NA	Solid	6010B	644579

Prep Batch: 644783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	TCLP	Solid	3010A	644598
500-212468-2	2615V2-114-B06 (0-1)	TCLP	Solid	3010A	644598
500-212468-3	2615V2-114-B07 (0-2)	TCLP	Solid	3010A	644598
500-212468-4	2615V2-114-B08 (0-2)	TCLP	Solid	3010A	644598
500-212468-5	2615V2-114-B10 (0-2)	TCLP	Solid	3010A	644598
500-212468-6	2615V2-114-B09 (0-1)	TCLP	Solid	3010A	644598
LB 500-644598/2-B	Method Blank	TCLP	Solid	3010A	644598
LCS 500-644783/2-A	Lab Control Sample	Total/NA	Solid	3010A	

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Metals

Prep Batch: 644808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	TCLP	Solid	7470A	644598
500-212468-2	2615V2-114-B06 (0-1)	TCLP	Solid	7470A	644598
500-212468-3	2615V2-114-B07 (0-2)	TCLP	Solid	7470A	644598
500-212468-4	2615V2-114-B08 (0-2)	TCLP	Solid	7470A	644598
500-212468-5	2615V2-114-B10 (0-2)	TCLP	Solid	7470A	644598
500-212468-6	2615V2-114-B09 (0-1)	TCLP	Solid	7470A	644598
LB 500-644598/2-C	Method Blank	TCLP	Solid	7470A	644598
MB 500-644808/13-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-644808/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 644992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	SPLP East	Solid	3010A	644601
500-212468-2	2615V2-114-B06 (0-1)	SPLP East	Solid	3010A	644601
500-212468-3	2615V2-114-B07 (0-2)	SPLP East	Solid	3010A	644601
500-212468-4	2615V2-114-B08 (0-2)	SPLP East	Solid	3010A	644601
500-212468-5	2615V2-114-B10 (0-2)	SPLP East	Solid	3010A	644601
500-212468-6	2615V2-114-B09 (0-1)	SPLP East	Solid	3010A	644601
LB 500-644601/1-B	Method Blank	SPLP East	Solid	3010A	644601
LCS 500-644992/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 645033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	6010B	644579
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	6010B	644579
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	6010B	644579
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	6010B	644579
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	6010B	644579
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	6010B	644579
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	6010B	644579
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	6010B	644579
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	6010B	644579
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	6010B	644579
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	6010B	644579
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	6010B	644579
MB 500-644579/1-A	Method Blank	Total/NA	Solid	6010B	644579
LCS 500-644579/2-A	Lab Control Sample	Total/NA	Solid	6010B	644579
LCS 500-644579/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	644579

Analysis Batch: 645035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	TCLP	Solid	6010B	644783
500-212468-2	2615V2-114-B06 (0-1)	TCLP	Solid	6010B	644783
500-212468-3	2615V2-114-B07 (0-2)	TCLP	Solid	6010B	644783
500-212468-4	2615V2-114-B08 (0-2)	TCLP	Solid	6010B	644783
500-212468-5	2615V2-114-B10 (0-2)	TCLP	Solid	6010B	644783
500-212468-6	2615V2-114-B09 (0-1)	TCLP	Solid	6010B	644783
LB 500-644598/2-B	Method Blank	TCLP	Solid	6010B	644783
LCS 500-644783/2-A	Lab Control Sample	Total/NA	Solid	6010B	644783

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Metals

Analysis Batch: 645037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	TCLP	Solid	6020A	644783
500-212468-2	2615V2-114-B06 (0-1)	TCLP	Solid	6020A	644783
500-212468-3	2615V2-114-B07 (0-2)	TCLP	Solid	6020A	644783
500-212468-4	2615V2-114-B08 (0-2)	TCLP	Solid	6020A	644783
500-212468-5	2615V2-114-B10 (0-2)	TCLP	Solid	6020A	644783
500-212468-6	2615V2-114-B09 (0-1)	TCLP	Solid	6020A	644783
LB 500-644598/2-B	Method Blank	TCLP	Solid	6020A	644783
LCS 500-644783/2-A	Lab Control Sample	Total/NA	Solid	6020A	644783

Prep Batch: 645075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	7471B	
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	7471B	
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	7471B	
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	7471B	
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	7471B	
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	7471B	
MB 500-645075/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-645075/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 645104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-2	2615V2-114-B06 (0-1)	TCLP	Solid	6010B	644783
500-212468-4	2615V2-114-B08 (0-2)	TCLP	Solid	6010B	644783

Analysis Batch: 645126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	TCLP	Solid	7470A	644808
500-212468-2	2615V2-114-B06 (0-1)	TCLP	Solid	7470A	644808
500-212468-3	2615V2-114-B07 (0-2)	TCLP	Solid	7470A	644808
500-212468-4	2615V2-114-B08 (0-2)	TCLP	Solid	7470A	644808
500-212468-5	2615V2-114-B10 (0-2)	TCLP	Solid	7470A	644808
500-212468-6	2615V2-114-B09 (0-1)	TCLP	Solid	7470A	644808
LB 500-644598/2-C	Method Blank	TCLP	Solid	7470A	644808
MB 500-644808/13-A	Method Blank	Total/NA	Solid	7470A	644808
LCS 500-644808/14-A	Lab Control Sample	Total/NA	Solid	7470A	644808

Analysis Batch: 645232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	SPLP East	Solid	6010B	644992
500-212468-2	2615V2-114-B06 (0-1)	SPLP East	Solid	6010B	644992
500-212468-3	2615V2-114-B07 (0-2)	SPLP East	Solid	6010B	644992
500-212468-4	2615V2-114-B08 (0-2)	SPLP East	Solid	6010B	644992
500-212468-5	2615V2-114-B10 (0-2)	SPLP East	Solid	6010B	644992
500-212468-6	2615V2-114-B09 (0-1)	SPLP East	Solid	6010B	644992
LB 500-644601/1-B	Method Blank	SPLP East	Solid	6010B	644992
LCS 500-644992/2-A	Lab Control Sample	Total/NA	Solid	6010B	644992

Analysis Batch: 645272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	7471B	645075

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Metals (Continued)

Analysis Batch: 645272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	7471B	645075
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	7471B	645075
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	7471B	645075
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	7471B	645075
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	7471B	645075
MB 500-645075/12-A	Method Blank	Total/NA	Solid	7471B	645075
LCS 500-645075/13-A	Lab Control Sample	Total/NA	Solid	7471B	645075

General Chemistry

Analysis Batch: 643937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	Moisture	
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	Moisture	
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	Moisture	
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	Moisture	
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	Moisture	
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	Moisture	

Analysis Batch: 644024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-3	2615V2-114-B07 (0-2)	Total/NA	Solid	9045D	
LCS 500-644024/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644024/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 644304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212468-1	2615V2-114-B05 (0-3)	Total/NA	Solid	9045D	
500-212468-2	2615V2-114-B06 (0-1)	Total/NA	Solid	9045D	
500-212468-4	2615V2-114-B08 (0-2)	Total/NA	Solid	9045D	
500-212468-5	2615V2-114-B10 (0-2)	Total/NA	Solid	9045D	
500-212468-6	2615V2-114-B09 (0-1)	Total/NA	Solid	9045D	
LCS 500-644304/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644304/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-212468-1	2615V2-114-B05 (0-3)	136 S1+	116	119	121
500-212468-2	2615V2-114-B06 (0-1)	137 S1+	113	113	124
500-212468-3	2615V2-114-B07 (0-2)	131	114	115	120
500-212468-4	2615V2-114-B08 (0-2)	143 S1+	116	116	123
500-212468-5	2615V2-114-B10 (0-2)	129	115	116	120
500-212468-6	2615V2-114-B09 (0-1)	132 S1+	116	118	120
LCS 500-644743/4	Lab Control Sample	108	117	103	116
MB 500-644743/6	Method Blank	111	112	105	115

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-212468-1	2615V2-114-B05 (0-3)	85	84	53	75	76	86
500-212468-2	2615V2-114-B06 (0-1)	91	98	57	80	72	85
500-212468-3	2615V2-114-B07 (0-2)	93	94	58	76	66	92
500-212468-4	2615V2-114-B08 (0-2)	87	89	59	79	72	91
500-212468-5	2615V2-114-B10 (0-2)	116	108	95	91	65	92
500-212468-6	2615V2-114-B09 (0-1)	92	86	74	76	60	91
LCS 500-644523/2-A	Lab Control Sample	94	98	76	93	76	103
MB 500-644523/1-A	Method Blank	103	116	68	87	55	96

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Lab Sample ID: MB 500-644743/6
Matrix: Solid
Analysis Batch: 644743

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/28/22 11:23	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/28/22 11:23	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/28/22 11:23	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/28/22 11:23	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/28/22 11:23	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/28/22 11:23	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/28/22 11:23	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/28/22 11:23	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/28/22 11:23	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/28/22 11:23	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/28/22 11:23	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/28/22 11:23	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/28/22 11:23	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/28/22 11:23	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/28/22 11:23	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/28/22 11:23	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/28/22 11:23	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/28/22 11:23	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/28/22 11:23	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/28/22 11:23	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/28/22 11:23	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/28/22 11:23	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/28/22 11:23	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/28/22 11:23	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/28/22 11:23	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/28/22 11:23	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/28/22 11:23	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/28/22 11:23	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/28/22 11:23	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/28/22 11:23	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/28/22 11:23	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/28/22 11:23	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/28/22 11:23	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/28/22 11:23	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/28/22 11:23	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/28/22 11:23	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/28/22 11:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	111		75 - 131		02/28/22 11:23	1
Dibromofluoromethane	112		75 - 126		02/28/22 11:23	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		02/28/22 11:23	1
Toluene-d8 (Surr)	115		75 - 124		02/28/22 11:23	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Lab Sample ID: LCS 500-644743/4
Matrix: Solid
Analysis Batch: 644743

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0389		mg/Kg		78	40 - 150
Benzene	0.0500	0.0393		mg/Kg		79	70 - 125
Bromodichloromethane	0.0500	0.0377		mg/Kg		75	67 - 129
Bromoform	0.0500	0.0376		mg/Kg		75	68 - 136
Bromomethane	0.0500	0.0510		mg/Kg		102	70 - 130
2-Butanone (MEK)	0.0500	0.0384		mg/Kg		77	47 - 138
Carbon disulfide	0.0500	0.0394		mg/Kg		79	70 - 129
Carbon tetrachloride	0.0500	0.0423		mg/Kg		85	75 - 125
Chlorobenzene	0.0500	0.0391		mg/Kg		78	50 - 150
Chloroethane	0.0500	0.0539		mg/Kg		108	75 - 125
Chloroform	0.0500	0.0385		mg/Kg		77	57 - 135
Chloromethane	0.0500	0.0395		mg/Kg		79	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0411		mg/Kg		82	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0370		mg/Kg		74	70 - 125
Dibromochloromethane	0.0500	0.0388		mg/Kg		78	69 - 125
1,1-Dichloroethane	0.0500	0.0402		mg/Kg		80	70 - 125
1,2-Dichloroethane	0.0500	0.0366		mg/Kg		73	70 - 130
1,1-Dichloroethene	0.0500	0.0405		mg/Kg		81	70 - 120
1,2-Dichloropropane	0.0500	0.0360		mg/Kg		72	70 - 125
Ethylbenzene	0.0500	0.0402		mg/Kg		80	61 - 136
2-Hexanone	0.0500	0.0374		mg/Kg		75	48 - 146
Methylene Chloride	0.0500	0.0365		mg/Kg		73	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0375		mg/Kg		75	50 - 148
Methyl tert-butyl ether	0.0500	0.0375		mg/Kg		75	50 - 140
Styrene	0.0500	0.0386		mg/Kg		77	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0375		mg/Kg		75	70 - 122
Tetrachloroethene	0.0500	0.0408		mg/Kg		82	70 - 124
Toluene	0.0500	0.0395		mg/Kg		79	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0414		mg/Kg		83	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0373		mg/Kg		75	70 - 125
1,1,1-Trichloroethane	0.0500	0.0422		mg/Kg		84	70 - 128
1,1,2-Trichloroethane	0.0500	0.0378		mg/Kg		76	70 - 125
Trichloroethene	0.0500	0.0412		mg/Kg		82	70 - 125
Vinyl acetate	0.0500	0.0362		mg/Kg		72	40 - 153
Vinyl chloride	0.0500	0.0437		mg/Kg		87	70 - 125
Xylenes, Total	0.100	0.0766		mg/Kg		77	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	117		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	116		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Lab Sample ID: MB 500-644523/1-A
Matrix: Solid
Analysis Batch: 644831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644523

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/25/22 09:35	02/28/22 16:53	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Lab Sample ID: MB 500-644523/1-A
Matrix: Solid
Analysis Batch: 644831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/25/22 09:35	02/28/22 16:53	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/25/22 09:35	02/28/22 16:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		31 - 166	02/25/22 09:35	02/28/22 16:53	1
Phenol-d5	116		30 - 153	02/25/22 09:35	02/28/22 16:53	1
Nitrobenzene-d5 (Surr)	68		37 - 147	02/25/22 09:35	02/28/22 16:53	1
2-Fluorobiphenyl (Surr)	87		43 - 145	02/25/22 09:35	02/28/22 16:53	1
2,4,6-Tribromophenol	55		31 - 143	02/25/22 09:35	02/28/22 16:53	1
Terphenyl-d14 (Surr)	96		42 - 157	02/25/22 09:35	02/28/22 16:53	1

Lab Sample ID: LCS 500-644523/2-A
Matrix: Solid
Analysis Batch: 644831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.20		mg/Kg		90	56 - 122
Bis(2-chloroethyl)ether	1.33	1.22		mg/Kg		92	55 - 111
1,3-Dichlorobenzene	1.33	1.08		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	61 - 110
1,2-Dichlorobenzene	1.33	1.11		mg/Kg		83	62 - 110
2-Methylphenol	1.33	1.14		mg/Kg		86	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	0.814		mg/Kg		61	40 - 124
N-Nitrosodi-n-propylamine	1.33	0.998		mg/Kg		75	56 - 118
Hexachloroethane	1.33	1.05		mg/Kg		79	60 - 114
2-Chlorophenol	1.33	1.28		mg/Kg		96	64 - 110
Nitrobenzene	1.33	1.02		mg/Kg		77	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.09		mg/Kg		82	60 - 112
1,2,4-Trichlorobenzene	1.33	1.18		mg/Kg		89	66 - 117
Isophorone	1.33	1.09		mg/Kg		82	55 - 110
2,4-Dimethylphenol	1.33	1.03		mg/Kg		77	60 - 110
Hexachlorobutadiene	1.33	1.21		mg/Kg		91	56 - 120
Naphthalene	1.33	1.14		mg/Kg		86	63 - 110
2,4-Dichlorophenol	1.33	1.32		mg/Kg		99	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Lab Sample ID: LCS 500-644523/2-A
Matrix: Solid
Analysis Batch: 644831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	0.563	J	mg/Kg		42	30 - 150
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		87	57 - 120
2,4,5-Trichlorophenol	1.33	1.22		mg/Kg		92	50 - 120
Hexachlorocyclopentadiene	1.33	<0.67	*-	mg/Kg		7	10 - 133
2-Methylnaphthalene	1.33	1.23		mg/Kg		93	69 - 112
2-Nitroaniline	1.33	1.06		mg/Kg		79	57 - 124
2-Chloronaphthalene	1.33	1.22		mg/Kg		91	69 - 114
4-Chloro-3-methylphenol	1.33	1.22		mg/Kg		91	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.24		mg/Kg		93	60 - 120
3-Nitroaniline	1.33	0.608		mg/Kg		46	40 - 122
Dimethyl phthalate	1.33	1.17		mg/Kg		88	69 - 116
2,4-Dinitrophenol	2.67	1.10		mg/Kg		41	10 - 100
Acenaphthylene	1.33	1.24		mg/Kg		93	68 - 120
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	69 - 124
Acenaphthene	1.33	1.16		mg/Kg		87	65 - 124
Dibenzofuran	1.33	1.19		mg/Kg		89	66 - 115
4-Nitrophenol	2.67	1.73		mg/Kg		65	30 - 122
Fluorene	1.33	1.15		mg/Kg		86	62 - 120
4-Nitroaniline	1.33	1.05		mg/Kg		79	60 - 160
4-Bromophenyl phenyl ether	1.33	1.13		mg/Kg		85	68 - 118
Hexachlorobenzene	1.33	1.20		mg/Kg		90	63 - 124
Diethyl phthalate	1.33	1.09		mg/Kg		82	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.21		mg/Kg		91	62 - 119
Pentachlorophenol	2.67	1.01		mg/Kg		38	13 - 112
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.75		mg/Kg		66	10 - 110
Phenanthrene	1.33	1.17		mg/Kg		87	62 - 120
Anthracene	1.33	1.15		mg/Kg		86	70 - 114
Carbazole	1.33	1.47		mg/Kg		110	65 - 142
Di-n-butyl phthalate	1.33	1.22		mg/Kg		92	65 - 120
Fluoranthene	1.33	1.32		mg/Kg		99	62 - 120
Pyrene	1.33	1.35		mg/Kg		101	61 - 128
Butyl benzyl phthalate	1.33	1.34		mg/Kg		100	71 - 129
Benzo[a]anthracene	1.33	1.15		mg/Kg		87	67 - 122
Chrysene	1.33	1.19		mg/Kg		89	63 - 120
3,3'-Dichlorobenzidine	1.33	0.764		mg/Kg		57	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.34		mg/Kg		100	72 - 131
Di-n-octyl phthalate	1.33	1.25		mg/Kg		94	68 - 134
Benzo[b]fluoranthene	1.33	1.31		mg/Kg		98	69 - 129
Benzo[k]fluoranthene	1.33	1.32		mg/Kg		99	68 - 127
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.43		mg/Kg		107	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.36		mg/Kg		102	72 - 131
3 & 4 Methylphenol	1.33	1.19		mg/Kg		90	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Lab Sample ID: LCS 500-644523/2-A
Matrix: Solid
Analysis Batch: 644831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644523

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	94		31 - 166
Phenol-d5	98		30 - 153
Nitrobenzene-d5 (Surr)	76		37 - 147
2-Fluorobiphenyl (Surr)	93		43 - 145
2,4,6-Tribromophenol	76		31 - 143
Terphenyl-d14 (Surr)	103		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-644579/1-A
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644579

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Boron	<5.0		5.0	0.47	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Cadmium	0.0504	J	0.20	0.036	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Chromium	1.49		1.0	0.50	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Copper	<1.0		1.0	0.28	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Lead	<0.50		0.50	0.23	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Nickel	<1.0		1.0	0.29	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Silver	<0.50		0.50	0.13	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/26/22 05:00	02/27/22 17:04	1

Lab Sample ID: MB 500-644579/1-A
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644579

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<1.0		1.0	0.11	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Calcium	8.45	J	20	3.4	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Iron	20.5		20	10	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Magnesium	<10		10	5.0	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Manganese	0.197	J	1.0	0.15	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Potassium	<50		50	18	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Sodium	<100		100	15	mg/Kg		02/26/22 05:00	02/28/22 15:59	1

Lab Sample ID: LCS 500-644579/2-A
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644579

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	50.0	45.5		mg/Kg		91	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Lab Sample ID: LCS 500-644579/2-A
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	7.96		mg/Kg		80	80 - 120
Boron	100	79.9		mg/Kg		80	80 - 120
Cadmium	5.00	4.41		mg/Kg		88	80 - 120
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Cobalt	50.0	46.0		mg/Kg		92	80 - 120
Copper	25.0	23.5		mg/Kg		94	80 - 120
Lead	10.0	8.38		mg/Kg		84	80 - 120
Nickel	50.0	46.2		mg/Kg		92	80 - 120
Silver	5.00	4.50		mg/Kg		90	80 - 120
Thallium	10.0	8.13		mg/Kg		81	80 - 120
Vanadium	50.0	45.7		mg/Kg		91	80 - 120
Zinc	50.0	45.5		mg/Kg		91	80 - 120

Lab Sample ID: LCS 500-644579/2-A
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.84		mg/Kg		97	80 - 120
Calcium	1000	951		mg/Kg		95	80 - 120
Iron	100	113		mg/Kg		113	80 - 120
Magnesium	1000	922		mg/Kg		92	80 - 120
Manganese	50.0	48.2		mg/Kg		96	80 - 120
Potassium	1000	917		mg/Kg		92	80 - 120
Sodium	1000	929		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-644579/2-A ^2
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	10.0	8.02		mg/Kg		80	80 - 120

Lab Sample ID: LCS 500-644783/2-A
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.517		mg/L		103	80 - 120
Beryllium	0.0500	0.0464		mg/L		93	80 - 120
Boron	1.00	0.908		mg/L		91	80 - 120
Cadmium	0.0500	0.0517		mg/L		103	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.535		mg/L		107	80 - 120
Iron	1.00	0.985		mg/L		99	80 - 120
Lead	0.100	0.0992		mg/L		99	80 - 120
Manganese	0.500	0.483		mg/L		97	80 - 120
Nickel	0.500	0.525		mg/L		105	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

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

Lab Sample ID: LCS 500-644783/2-A
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.0500	0.0541		mg/L		108	80 - 120
Zinc	0.500	0.580		mg/L		116	80 - 120

Lab Sample ID: LCS 500-644992/2-A
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0468		mg/L		94	80 - 120
Manganese	0.500	0.510		mg/L		102	80 - 120
Nickel	0.500	0.493		mg/L		99	80 - 120

Lab Sample ID: LB 500-644598/2-B
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644783

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/28/22 08:56	02/28/22 23:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:56	02/28/22 23:48	1
Boron	<0.50		0.50	0.050	mg/L		02/28/22 08:56	02/28/22 23:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:56	02/28/22 23:48	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:56	02/28/22 23:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:56	02/28/22 23:48	1
Manganese	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:56	02/28/22 23:48	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:56	02/28/22 23:48	1
Zinc	<0.50		0.50	0.020	mg/L		02/28/22 08:56	02/28/22 23:48	1

Lab Sample ID: LB 500-644601/1-B
Matrix: Solid
Analysis Batch: 645232

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644992

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/01/22 07:55	03/01/22 16:22	1
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/01/22 16:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/01/22 07:55	03/01/22 16:22	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644783/2-A
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.518		mg/L		104	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LB 500-644598/2-B
 Matrix: Solid
 Analysis Batch: 645037

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 644783

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:56	02/28/22 16:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:56	02/28/22 16:51	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644808/13-A
 Matrix: Solid
 Analysis Batch: 645126

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 644808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:51	1

Lab Sample ID: LCS 500-644808/14-A
 Matrix: Solid
 Analysis Batch: 645126

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 644808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00199		mg/L		100	80 - 120

Lab Sample ID: LB 500-644598/2-C
 Matrix: Solid
 Analysis Batch: 645126

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 644808

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:48	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-645075/12-A
 Matrix: Solid
 Analysis Batch: 645272

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 645075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		03/01/22 14:00	03/02/22 07:42	1

Lab Sample ID: LCS 500-645075/13-A
 Matrix: Solid
 Analysis Batch: 645272

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 645075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.177		mg/Kg		106	80 - 120

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B05 (0-3)

Lab Sample ID: 500-212468-1

Date Collected: 02/16/22 11:45

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 16:39	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:01	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 16:55	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:55	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:34	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643937	02/23/22 08:17	LWN	TAL CHI

Client Sample ID: 2615V2-114-B05 (0-3)

Lab Sample ID: 500-212468-1

Date Collected: 02/16/22 11:45

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644743	02/28/22 16:44	PMF	TAL CHI
Total/NA	Prep	3541			644523	02/25/22 09:35	FRG	TAL CHI
Total/NA	Analysis	8270D		1	644831	02/28/22 17:56	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:26	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 17:41	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 17:45	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:18	MJG	TAL CHI

Client Sample ID: 2615V2-114-B06 (0-1)

Lab Sample ID: 500-212468-2

Date Collected: 02/16/22 12:15

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 16:42	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645104	03/01/22 11:33	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B06 (0-1)

Lab Sample ID: 500-212468-2

Date Collected: 02/16/22 12:15

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:05	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 16:57	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:57	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:36	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643937	02/23/22 08:17	LWN	TAL CHI

Client Sample ID: 2615V2-114-B06 (0-1)

Lab Sample ID: 500-212468-2

Date Collected: 02/16/22 12:15

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644743	02/28/22 17:11	PMF	TAL CHI
Total/NA	Prep	3541			644523	02/25/22 09:35	FRG	TAL CHI
Total/NA	Analysis	8270D		1	644831	02/28/22 18:17	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:29	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 17:54	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 17:58	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:21	MJG	TAL CHI

Client Sample ID: 2615V2-114-B07 (0-2)

Lab Sample ID: 500-212468-3

Date Collected: 02/16/22 12:18

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 16:45	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:08	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 16:59	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B07 (0-2)

Lab Sample ID: 500-212468-3

Date Collected: 02/16/22 12:18

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:04	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644024		KMS	TAL CHI
					(Start)	02/23/22 08:51		
					(End)	02/23/22 08:51		
Total/NA	Analysis	Moisture		1	643937	02/23/22 08:17	LWN	TAL CHI

Client Sample ID: 2615V2-114-B07 (0-2)

Lab Sample ID: 500-212468-3

Date Collected: 02/16/22 12:18

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644743	02/28/22 17:38	PMF	TAL CHI
Total/NA	Prep	3541			644523	02/25/22 09:35	FRG	TAL CHI
Total/NA	Analysis	8270D		1	644831	02/28/22 18:38	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:33	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 18:01	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 18:04	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:23	MJG	TAL CHI

Client Sample ID: 2615V2-114-B08 (0-2)

Lab Sample ID: 500-212468-4

Date Collected: 02/16/22 12:48

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 16:48	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645104	03/01/22 11:37	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:12	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:01	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:06	MJG	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B08 (0-2)

Lab Sample ID: 500-212468-4

Date Collected: 02/16/22 12:48

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	644304	02/24/22 07:38	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643937	02/23/22 08:17	LWN	TAL CHI

Client Sample ID: 2615V2-114-B08 (0-2)

Lab Sample ID: 500-212468-4

Date Collected: 02/16/22 12:48

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644743	02/28/22 18:05	PMF	TAL CHI
Total/NA	Prep	3541			644523	02/25/22 09:35	FRG	TAL CHI
Total/NA	Analysis	8270D		1	644831	02/28/22 18:59	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:36	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 18:08	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 18:11	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:29	MJG	TAL CHI

Client Sample ID: 2615V2-114-B10 (0-2)

Lab Sample ID: 500-212468-5

Date Collected: 02/16/22 14:05

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 16:52	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:15	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:03	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:08	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:43	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643937	02/23/22 08:17	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B10 (0-2)

Lab Sample ID: 500-212468-5

Date Collected: 02/16/22 14:05

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644743	02/28/22 18:32	PMF	TAL CHI
Total/NA	Prep	3541			644523	02/25/22 09:35	FRG	TAL CHI
Total/NA	Analysis	8270D		1	645145	03/02/22 15:07	JSB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:40	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 18:14	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 18:18	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:30	MJG	TAL CHI

Client Sample ID: 2615V2-114-B09 (0-1)

Lab Sample ID: 500-212468-6

Date Collected: 02/16/22 14:10

Matrix: Solid

Date Received: 02/16/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644601	02/25/22 12:54	EA	TAL CHI
SPLP East	Prep	3010A			644992	03/01/22 07:55	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645232	03/01/22 16:55	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	03/01/22 00:19	JJB	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	3010A			644783	02/28/22 08:56	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 17:05	FXG	TAL CHI
TCLP	Leach	1311			644598	02/25/22 16:10	EA	TAL CHI
TCLP	Prep	7470A			644808	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 17:10	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:46	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643937	02/23/22 08:17	LWN	TAL CHI

Client Sample ID: 2615V2-114-B09 (0-1)

Lab Sample ID: 500-212468-6

Date Collected: 02/16/22 14:10

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644720	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644743	02/28/22 18:58	PMF	TAL CHI
Total/NA	Prep	3541			644523	02/25/22 09:35	FRG	TAL CHI
Total/NA	Analysis	8270D		1	645145	03/02/22 17:08	JSB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:53	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Client Sample ID: 2615V2-114-B09 (0-1)

Lab Sample ID: 500-212468-6

Date Collected: 02/16/22 14:10

Matrix: Solid

Date Received: 02/16/22 16:45

Percent Solids: 80.2

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 18:21	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 18:24	JJB	TAL CHI
Total/NA	Prep	7471B			645075	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 08:33	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212468-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

1

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15

Chain of Custody Record

542660



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact Company Name WSP		Project Manager D. Tiebowt		Site Contact		Date 2/16/22		COC No					
Address		Tel/Email		Lab Contact D. Wright		Carrier		2 of 2 COCs					
City/State/Zip		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N) VOC SVOC metals TCLP pH Solids		 500-212468 COC		Sampler					
Phone		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only					
Fax		<input checked="" type="checkbox"/> 2 weeks (standard) <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client.					
Project Name NO 08 Greenway								Lab Sampling					
Site FAI 91/94/290						Job / SDG No		500-212468					
P O #								Sample Specific Notes					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOC	SVOC	metals	TCLP	pH	Solids
1 2615V2-114-B05(0-3)	2/16/22	11.45	G	S	5			X	X	X	X	X	X
2 2615V2-114-B06(0-1)	2/16/22	12.15	G	S	5			XX	XX	XX	XX	XX	XX
3 2615V2-114-B07(0-2)	2/16/22	12.18	G	S	5			XX	XX	XX	XX	XX	XX
4 2615V2-114-B08(0-2)	2/16/22	12.48	G	S	5			X	X	X	X	X	X
5 2615V2-114-B10(0-2)	2/16/22	14.05	G	S	5			XX	XX	XX	XX	XX	XX
6 2615V2-114-B09(0-1)	2/16/22	14.10	G	S	5			XX	XX	XX	XX	XX	XX
2615V2-114-	None												
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample										<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Non-Hazard <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown													
Special Instructions/QC Requirements & Comments: 4.4 + 3.4													
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____							
Relinquished by Caitlyn Cooper (Caitlyn Cooper)		Company		Date/Time 2/16/22		Received by P. Neal		Company eurofins					
Relinquished by P. Neal		Company eurofins		Date/Time 2/16/22 10:15		Received by		Date/Time					
Relinquished by		Company		Date/Time		Received in Laboratory by Stephanie Hernandez		Company EPA					
								Date/Time 2/16/22 11:45					

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212468-1

Login Number: 212468

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAI 90/94/290 Office Phone Number, if available: _____

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

700 W. Harrison Street (ISGS #2615V2-326)

City: Chicago State: IL Zip Code: 60607

County: Cook Township: NA

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

Latitude: 41.87459 Longitude: - 87.64411

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 222

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

Locations 2615V2-326-B01 and -B02 were sampled within the construction zone adjacent to ISGS #2615V2-326 (CTA Bus Station). Refer to PSI Report for ISGS #2615V2-326 (CTA Bus Station) including Table 4-3, and Figure 4-16.

- 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 package J212659-1.

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

I, Tom Campbell (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: WSP USA
 Street Address: 115 W Washington St., Suite 1270S
 City: Indianapolis State: IN Zip Code: 46204
 Phone: (317) 972-1706

Tom Campbell
 Printed Name:

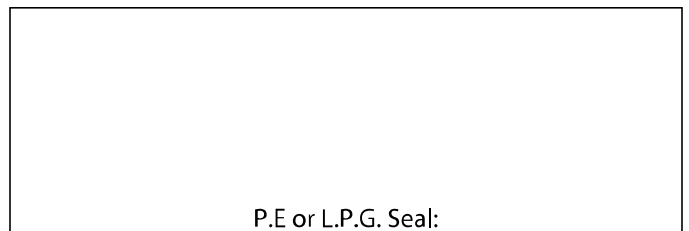
Tom Campbell

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:



03/22/2022

Date: Expires 11/30/2023







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

Analytical Data Summary
PTB #196-002; Work Order 08 - IDOT Job # D-91-441-20

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.
- † = 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.

CONTAMINANTS OF CONCERN

SITE	ISGS #2615V2-326 (CTA Bus Station)			Comparison Criteria								
	2615V2-326-B01		2615V2-326-B02	MACs			TACO					
BORING	2615V2-326-B01 (0-1.5)		2615V2-326-B01 (0-1.5)D	2615V2-326-B02 (0-1)			Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil									
MATRIX	0-1.5	0-1.5	0-1									
DEPTH (feet)	7.6	7.7	7.6									
pH	--	--	--									
PID (meter units)	ISGS #2615V2-326 (CTA Bus Station)			Comparison Criteria								
VOCs (None Detected)												
SVOCs (mg/kg)												
2-Methylnaphthalene	0.037 J	0.034 J	ND U	--	--	--	--	--	--	--	--	--
Acenaphthene	0.073	0.13	ND U	570	--	--	4,700	120,000	--	--	--	--
Acenaphthylene	0.063	0.035 J	0.0061 J	--	--	--	--	--	--	--	--	--
Anthracene	0.28	0.47	0.020 J	12,000	--	--	23,000	610,000	--	--	--	--
Benzo(a)anthracene	0.88	1.1 †	0.080	0.9	1.8	1.1	1.8	170	--	--	--	--
Benzo(a)pyrene	0.94 †	1.2 †	0.10 †	0.09	2.1	1.3	2.1	17	--	--	--	--
Benzo(b)fluoranthene	1.3 †	1.7 †	0.14	0.9	2.1	1.5	2.1	170	--	--	--	--
Benzo(g,h,i)perylene	0.37	0.41	0.056	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.46	0.65	0.062	9	--	--	9	1,700	--	--	--	--
Carbazole	0.11 J	0.16 J	ND U	0.6	--	--	32	6,200	--	--	--	--
Chrysene	0.94	1.2	0.10	88	--	--	88	17,000	--	--	--	--
Dibenz(a,h)anthracene	0.096 †	0.14 †	0.015 J	0.09	0.42	0.2	0.42	17	--	--	--	--
Dibenzofuran	0.058 J	0.090 J	ND U	--	--	--	--	--	--	--	--	--
Fluoranthene	2.2	3.7	0.20	3,100	--	--	3,100	82,000	--	--	--	--
Fluorene	0.082	0.16	0.0066 J	560	--	--	3100	82000	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.38	0.44	0.051	0.9	1.6	0.9	1.6	170	--	--	--	--
Naphthalene	0.037 J	0.036 J	ND U	1.8	--	--	170	1.8	--	--	--	--
Phenanthrene	1.3	2.2	0.088	--	--	--	--	--	--	--	--	--
Pyrene	1.6	2.2	0.15	2,300	--	--	2,300	61,000	--	--	--	--
Inorganics (mg/kg)												
Antimony	0.70 J	0.63 J	0.51 J	5	--	--	31	82	--	--	--	--
Arsenic	7.6 J	6.1	7.1	11.3	13	--	13	61	--	--	--	--
Barium	69 J	76	110	1,500	--	--	5,500	14,000	--	--	--	--
Beryllium	0.62	0.73	0.93	22	--	--	160	410	--	--	--	--
Boron	11	8.7	3.8	40	--	--	16,000	41,000	--	--	--	--
Cadmium	0.41	0.31	ND U	5.2	--	--	78	200	--	--	--	--
Calcium	79,000 J	59,000	13,000	--	--	--	--	--	--	--	--	--
Chromium	13	15	18	21	--	--	230	690	--	--	--	--
Cobalt	7.5	8.2	9.7	20	--	--	4,700	12,000	--	--	--	--
Copper	39	29	23	2,900	--	--	2,900	8,200	--	--	--	--
Iron	13,000	14,000	19,000 †m	15,000	15,900	--	--	--	--	--	--	--
Lead	110 †	69	22	107	--	--	400	700	--	--	--	--
Magnesium	34,000	23,000	8,300	325,000	--	--	--	730,000	--	--	--	--
Manganese	250	280	210	630	636	--	1,600	4,100	--	--	--	--
Mercury	0.46	0.23	0.050	0.89	--	--	10	0.1	--	--	--	--
Nickel	22	23	29	100	--	--	1,600	4,100	--	--	--	--
Potassium	1,100 J	1,400	940	--	--	--	--	--	--	--	--	--
Silver	0.54	0.31	0.42	4.4	--	--	390	1,000	--	--	--	--
Sodium	400 J	240	330	--	--	--	--	--	--	--	--	--
Thallium	0.41 J	0.51 J	0.79	2.6	--	--	6.3	160	--	--	--	--
Vanadium	15	19	26	550	--	--	550	1,400	--	--	--	--
Zinc	120	100	74	5,100	--	--	23,000	61,000	--	--	--	--
TCLP Metals (mg/L)												
Barium	0.46 J	0.55	0.63	--	--	--	--	--	--	--	--	2
Boron	0.094 J	0.095 J	0.084 J	--	--	--	--	--	--	--	--	2
Cadmium	0.0027 J	0.0025 J	0.0022 J	--	--	--	--	--	--	--	--	0.005
Chromium	0.027	ND U	ND U	--	--	--	--	--	--	--	--	0.1
Iron	0.41	ND U	ND U	--	--	--	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	--	--	--	0.0075
Manganese	0.67 L	0.95 L	1.4 L	--	--	--	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	--	--	--	--	--	--	--	--	0.002
Nickel	0.030	ND U	ND U	--	--	--	--	--	--	--	--	0.1
Zinc	0.10 J	0.085 J	0.053 J	--	--	--	--	--	--	--	--	5
SPLP Metals (mg/L)												
Manganese	0.12	0.19 L	0.043	--	--	--	--	--	--	--	--	0.15

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212659-1

Client Project/Site: IDOT - 196-002-WO008 Byrne Interchange

For:

WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
3/4/2022 12:14:45 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Job ID: 500-212659-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212659-1

Receipt

The samples were received on 2/21/2022 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644945 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], Phenol and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

Method 6010B: The method blank for preparation batch 500-645231 and analytical batch 500-645435 contained Chromium 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: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)

Lab Sample ID: 500-212659-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.037	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.037	J	0.078	0.0071	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.063		0.039	0.0051	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.073		0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.058	J	0.20	0.045	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.082		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	1.3		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.28		0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Carbazole	0.11	J	0.20	0.097	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	2.2		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.6		0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.88		0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.94		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.46		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.94		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.38		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.096		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.37		0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.70	J F1 F2	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.6	F1	0.60	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	69	F1	0.60	0.069	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.62		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Boron	11		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	79000	B	60	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	13	B	0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	7.5		0.30	0.079	mg/Kg	1	✳	6010B	Total/NA
Copper	39		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	13000	B	12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	110		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	34000		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	250		0.60	0.087	mg/Kg	1	✳	6010B	Total/NA
Nickel	22	B	0.60	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	1100	F1	30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.54		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Sodium	400		60	8.9	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.41	J	0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.30	0.071	mg/Kg	1	✳	6010B	Total/NA
Zinc	120		1.2	0.53	mg/Kg	1	✳	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.094	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Chromium	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.41		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.10	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.46		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B02 (0-1)

Lab Sample ID: 500-212659-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0061	J	0.040	0.0053	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0066	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.088		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.020	J	0.040	0.0067	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.20		0.040	0.0074	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.15		0.040	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.080		0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.10		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.040	0.0086	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.062		0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.10		0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.051		0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.056		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.51	J	1.2	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.1		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	110		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.93		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	3.8		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.14	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	13000	B	12	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	18	B	0.58	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.7		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	12	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	22		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	8300		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	210		0.58	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	29	B	0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	940		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.42		0.29	0.074	mg/Kg	1	✳	6010B	Total/NA
Sodium	330		58	8.5	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.79		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	26		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	74		1.2	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.084	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.053	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.050		0.020	0.0067	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2615V2-326-B01 (0-1.5)D

Lab Sample ID: 500-212659-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.036	J	0.040	0.0062	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.034	J	0.082	0.0075	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.035	J	0.040	0.0053	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.13		0.040	0.0073	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-212659-1

Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Client Sample ID: 2615V2-326-B01 (0-1.5)D (Continued)

Lab Sample ID: 500-212659-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	0.090	J	0.20	0.047	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.16		0.040	0.0057	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	2.2		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.47		0.040	0.0068	mg/Kg	1	✳	8270D	Total/NA
Carbazole	0.16	J	0.20	0.10	mg/Kg	1	✳	8270D	Total/NA
Pyrene	2.2		0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	1.1		0.040	0.0055	mg/Kg	1	✳	8270D	Total/NA
Chrysene	1.2		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1.7		0.040	0.0087	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.65		0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	1.2		0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.44		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.14		0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.41		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene - DL	3.7		0.20	0.038	mg/Kg	5	✳	8270D	Total/NA
Antimony	0.63	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.1		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	76		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.73		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	8.7		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.31	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	59000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	15	B	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.2		0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	29		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	14000	B	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	69		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	23000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	280		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	23	B	0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		30	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.31		0.30	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	240		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.51	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	19		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	100		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.095	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.085	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.23		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212659-1	2615V2-326-B01 (0-1.5)	Solid	02/21/22 15:00	02/21/22 16:40
500-212659-2	2615V2-326-B02 (0-1)	Solid	02/21/22 15:05	02/21/22 16:40
500-212659-3	2615V2-326-B01 (0-1.5)D	Solid	02/21/22 15:00	02/21/22 16:40

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)

Lab Sample ID: 500-212659-1

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Bromodichloromethane	<0.0020		0.0020	0.00042	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00062	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
1,2-Dichloropropene	<0.0020		0.0020	0.00053	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00072	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Tetrachloroethene	<0.0020		0.0020	0.00070	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Toluene	<0.0020		0.0020	0.00052	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00091	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00069	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00088	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	✱	02/21/22 17:30	03/01/22 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		75 - 131	02/21/22 17:30	03/01/22 19:26	1
Dibromofluoromethane	102		75 - 126	02/21/22 17:30	03/01/22 19:26	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/21/22 17:30	03/01/22 19:26	1
Toluene-d8 (Surr)	100		75 - 124	02/21/22 17:30	03/01/22 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)

Lab Sample ID: 500-212659-1

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Naphthalene	0.037	J	0.039	0.0060	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2-Methylnaphthalene	0.037	J	0.078	0.0071	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Acenaphthylene	0.063		0.039	0.0051	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Acenaphthene	0.073		0.039	0.0070	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Dibenzofuran	0.058	J	0.20	0.045	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Fluorene	0.082		0.039	0.0055	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Phenanthrene	1.3		0.039	0.0054	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Anthracene	0.28		0.039	0.0065	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Carbazole	0.11	J	0.20	0.097	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Fluoranthene	2.2		0.039	0.0072	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Pyrene	1.6		0.039	0.0077	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Benzo[a]anthracene	0.88		0.039	0.0052	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)

Lab Sample ID: 500-212659-1

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.94		0.039	0.011	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Benzo[b]fluoranthene	1.3		0.039	0.0084	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Benzo[k]fluoranthene	0.46		0.039	0.011	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Benzo[a]pyrene	0.94		0.039	0.0075	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Indeno[1,2,3-cd]pyrene	0.38		0.039	0.010	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Dibenz(a,h)anthracene	0.096		0.039	0.0075	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Benzo[g,h,i]perylene	0.37		0.039	0.013	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✱	02/28/22 06:20	03/01/22 10:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		31 - 166				02/28/22 06:20	03/01/22 10:35	1
Phenol-d5	82		30 - 153				02/28/22 06:20	03/01/22 10:35	1
Nitrobenzene-d5 (Surr)	72		37 - 147				02/28/22 06:20	03/01/22 10:35	1
2-Fluorobiphenyl (Surr)	84		43 - 145				02/28/22 06:20	03/01/22 10:35	1
2,4,6-Tribromophenol	110		31 - 143				02/28/22 06:20	03/01/22 10:35	1
Terphenyl-d14 (Surr)	85		42 - 157				02/28/22 06:20	03/01/22 10:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J F1 F2	1.2	0.23	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Arsenic	7.6	F1	0.60	0.21	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Barium	69	F1	0.60	0.069	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Beryllium	0.62		0.24	0.056	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Boron	11		3.0	0.28	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Cadmium	0.41	B	0.12	0.022	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Calcium	79000	B	60	10	mg/Kg	✱	03/02/22 08:40	03/03/22 13:09	5
Chromium	13	B	0.60	0.30	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Cobalt	7.5		0.30	0.079	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Copper	39		0.60	0.17	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Iron	13000	B	12	6.3	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Lead	110		0.30	0.14	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Magnesium	34000		6.0	3.0	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Manganese	250		0.60	0.087	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Nickel	22	B	0.60	0.18	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Potassium	1100	F1	30	11	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Selenium	<0.60		0.60	0.35	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Silver	0.54		0.30	0.078	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Sodium	400		60	8.9	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Thallium	0.41	J	0.60	0.30	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Vanadium	15		0.30	0.071	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1
Zinc	120		1.2	0.53	mg/Kg	✱	03/02/22 08:40	03/02/22 22:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 22:46	1
Boron	0.094	J	0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:46	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)

Lab Sample ID: 500-212659-1

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0027	J	0.0050	0.0020	mg/L	-	02/28/22 08:59	02/28/22 22:46	1
Chromium	0.027		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:46	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:46	1
Iron	0.41		0.40	0.20	mg/L	-	02/28/22 08:59	02/28/22 22:46	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/28/22 08:59	02/28/22 22:46	1
Manganese	0.67		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:46	1
Nickel	0.030		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:46	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/28/22 08:59	02/28/22 22:46	1
Silver	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:46	1
Zinc	0.10	J	0.50	0.020	mg/L	-	02/28/22 08:59	02/28/22 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.12		0.025	0.010	mg/L	-	03/01/22 07:56	03/02/22 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/28/22 08:59	02/28/22 18:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/28/22 08:59	02/28/22 18:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/28/22 14:20	03/01/22 18:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46		0.018	0.0060	mg/Kg	☆	03/02/22 12:02	03/03/22 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU	-		02/25/22 10:53	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B02 (0-1)

Lab Sample ID: 500-212659-2

Date Collected: 02/21/22 15:05

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
1,2-Dichloropropene	<0.0021		0.0021	0.00054	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1
Xylenes, Total	<0.0042		0.0042	0.00066	mg/Kg	✳	02/21/22 17:30	03/01/22 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		75 - 131	02/21/22 17:30	03/01/22 19:52	1
Dibromofluoromethane	98		75 - 126	02/21/22 17:30	03/01/22 19:52	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	02/21/22 17:30	03/01/22 19:52	1
Toluene-d8 (Surr)	101		75 - 124	02/21/22 17:30	03/01/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B02 (0-1)

Lab Sample ID: 500-212659-2

Date Collected: 02/21/22 15:05

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Acenaphthylene	0.0061	J	0.040	0.0053	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Fluorene	0.0066	J	0.040	0.0056	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Phenanthrene	0.088		0.040	0.0056	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Anthracene	0.020	J	0.040	0.0067	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Fluoranthene	0.20		0.040	0.0074	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Pyrene	0.15		0.040	0.0079	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1
Benzo[a]anthracene	0.080		0.040	0.0054	mg/Kg	☆	02/28/22 06:20	03/01/22 10:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B02 (0-1)

Lab Sample ID: 500-212659-2

Date Collected: 02/21/22 15:05

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.10		0.040	0.011	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Benzo[b]fluoranthene	0.14		0.040	0.0086	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Benzo[k]fluoranthene	0.062		0.040	0.012	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Benzo[a]pyrene	0.10		0.040	0.0077	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Indeno[1,2,3-cd]pyrene	0.051		0.040	0.010	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Dibenz(a,h)anthracene	0.015 J		0.040	0.0077	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Benzo[g,h,i]perylene	0.056		0.040	0.013	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	02/28/22 06:20	03/01/22 10:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		31 - 166				02/28/22 06:20	03/01/22 10:59	1
Phenol-d5	77		30 - 153				02/28/22 06:20	03/01/22 10:59	1
Nitrobenzene-d5 (Surr)	64		37 - 147				02/28/22 06:20	03/01/22 10:59	1
2-Fluorobiphenyl (Surr)	74		43 - 145				02/28/22 06:20	03/01/22 10:59	1
2,4,6-Tribromophenol	115		31 - 143				02/28/22 06:20	03/01/22 10:59	1
Terphenyl-d14 (Surr)	83		42 - 157				02/28/22 06:20	03/01/22 10:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51 J		1.2	0.22	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Arsenic	7.1		0.58	0.20	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Barium	110		0.58	0.066	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Beryllium	0.93		0.23	0.054	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Boron	3.8		2.9	0.27	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Cadmium	0.14 B		0.12	0.021	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Calcium	13000 B		12	1.9	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Chromium	18 B		0.58	0.28	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Cobalt	9.7		0.29	0.075	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Copper	23		0.58	0.16	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Iron	19000 B		12	6.0	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Lead	22		0.29	0.13	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Magnesium	8300		5.8	2.9	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Manganese	210		0.58	0.083	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Nickel	29 B		0.58	0.17	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Potassium	940		29	10	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Silver	0.42		0.29	0.074	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Sodium	330		58	8.5	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Thallium	0.79		0.58	0.29	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Vanadium	26		0.29	0.068	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1
Zinc	74		1.2	0.50	mg/Kg	✳	03/02/22 08:40	03/02/22 22:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 22:50	1
Boron	0.084 J		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B02 (0-1)

Lab Sample ID: 500-212659-2

Date Collected: 02/21/22 15:05

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0022	J	0.0050	0.0020	mg/L	-	02/28/22 08:59	02/28/22 22:50	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:50	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:50	1
Iron	<0.40		0.40	0.20	mg/L	-	02/28/22 08:59	02/28/22 22:50	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/28/22 08:59	02/28/22 22:50	1
Manganese	1.4		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:50	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:50	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/28/22 08:59	02/28/22 22:50	1
Silver	<0.025		0.025	0.010	mg/L	-	02/28/22 08:59	02/28/22 22:50	1
Zinc	0.053	J	0.50	0.020	mg/L	-	02/28/22 08:59	02/28/22 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.043		0.025	0.010	mg/L	-	03/01/22 07:56	03/02/22 21:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/28/22 08:59	02/28/22 18:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/28/22 08:59	02/28/22 18:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/28/22 14:20	03/01/22 19:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.020	0.0067	mg/Kg	☆	03/02/22 12:02	03/03/22 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU	-		02/25/22 10:55	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)D

Lab Sample ID: 500-212659-3

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0092	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
1,2-Dichloropropene	<0.0021		0.0021	0.00055	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1
Xylenes, Total	<0.0042		0.0042	0.00068	mg/Kg	✳	02/21/22 17:30	03/01/22 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		75 - 131	02/21/22 17:30	03/01/22 20:18	1
Dibromofluoromethane	108		75 - 126	02/21/22 17:30	03/01/22 20:18	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	02/21/22 17:30	03/01/22 20:18	1
Toluene-d8 (Surr)	99		75 - 124	02/21/22 17:30	03/01/22 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)D

Lab Sample ID: 500-212659-3

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Naphthalene	0.036	J	0.040	0.0062	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2-Methylnaphthalene	0.034	J	0.082	0.0075	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Acenaphthylene	0.035	J	0.040	0.0053	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Acenaphthene	0.13		0.040	0.0073	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Dibenzofuran	0.090	J	0.20	0.047	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Fluorene	0.16		0.040	0.0057	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Phenanthrene	2.2		0.040	0.0056	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Anthracene	0.47		0.040	0.0068	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Carbazole	0.16	J	0.20	0.10	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Pyrene	2.2		0.040	0.0080	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Benzo[a]anthracene	1.1		0.040	0.0055	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1
Chrysene	1.2		0.040	0.011	mg/Kg	✱	02/28/22 06:20	03/01/22 11:23	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)D

Lab Sample ID: 500-212659-3

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
Benzo[b]fluoranthene	1.7		0.040	0.0087	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
Benzo[k]fluoranthene	0.65		0.040	0.012	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
Benzo[a]pyrene	1.2		0.040	0.0078	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
Indeno[1,2,3-cd]pyrene	0.44		0.040	0.011	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
Dibenz(a,h)anthracene	0.14		0.040	0.0078	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
Benzo[g,h,i]perylene	0.41		0.040	0.013	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	✳	02/28/22 06:20	03/01/22 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		31 - 166	02/28/22 06:20	03/01/22 11:23	1
Phenol-d5	75		30 - 153	02/28/22 06:20	03/01/22 11:23	1
Nitrobenzene-d5 (Surr)	63		37 - 147	02/28/22 06:20	03/01/22 11:23	1
2-Fluorobiphenyl (Surr)	74		43 - 145	02/28/22 06:20	03/01/22 11:23	1
2,4,6-Tribromophenol	105		31 - 143	02/28/22 06:20	03/01/22 11:23	1
Terphenyl-d14 (Surr)	79		42 - 157	02/28/22 06:20	03/01/22 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	3.7		0.20	0.038	mg/Kg	✳	02/28/22 06:20	03/03/22 11:40	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	120		31 - 166	02/28/22 06:20	03/03/22 11:40	5
Phenol-d5	55		30 - 153	02/28/22 06:20	03/03/22 11:40	5
Nitrobenzene-d5 (Surr)	60		37 - 147	02/28/22 06:20	03/03/22 11:40	5
2-Fluorobiphenyl (Surr)	83		43 - 145	02/28/22 06:20	03/03/22 11:40	5
2,4,6-Tribromophenol	56		31 - 143	02/28/22 06:20	03/03/22 11:40	5
Terphenyl-d14 (Surr)	102		42 - 157	02/28/22 06:20	03/03/22 11:40	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.2	0.23	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Arsenic	6.1		0.59	0.20	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Barium	76		0.59	0.067	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Beryllium	0.73		0.24	0.055	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Boron	8.7		3.0	0.28	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Cadmium	0.31	B	0.12	0.021	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Calcium	59000	B	59	10	mg/Kg	✳	03/02/22 08:40	03/03/22 13:25	5
Chromium	15	B	0.59	0.29	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Cobalt	8.2		0.30	0.077	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Copper	29		0.59	0.17	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Iron	14000	B	12	6.1	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Lead	69		0.30	0.14	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Magnesium	23000		5.9	2.9	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Manganese	280		0.59	0.086	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Nickel	23	B	0.59	0.17	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Potassium	1400		30	10	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1
Selenium	<0.59		0.59	0.35	mg/Kg	✳	03/02/22 08:40	03/02/22 22:52	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)D

Lab Sample ID: 500-212659-3

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.31		0.30	0.076	mg/Kg	☼	03/02/22 08:40	03/02/22 22:52	1
Sodium	240		59	8.7	mg/Kg	☼	03/02/22 08:40	03/02/22 22:52	1
Thallium	0.51	J	0.59	0.29	mg/Kg	☼	03/02/22 08:40	03/02/22 22:52	1
Vanadium	19		0.30	0.070	mg/Kg	☼	03/02/22 08:40	03/02/22 22:52	1
Zinc	100		1.2	0.52	mg/Kg	☼	03/02/22 08:40	03/02/22 22:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 22:53	1
Boron	0.095	J	0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:53	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		02/28/22 08:59	02/28/22 22:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:53	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:53	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:59	02/28/22 22:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:59	02/28/22 22:53	1
Manganese	0.95		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:53	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/28/22 08:59	02/28/22 22:53	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:53	1
Zinc	0.085	J	0.50	0.020	mg/L		02/28/22 08:59	02/28/22 22:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.19		0.025	0.010	mg/L		03/01/22 07:56	03/02/22 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:59	02/28/22 18:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:59	02/28/22 18:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 19:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.019	0.0064	mg/Kg	☼	03/02/22 12:02	03/03/22 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			02/25/22 10:58	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

GC/MS VOA

Prep Batch: 644721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	5035	
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	5035	
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	5035	

Analysis Batch: 645019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	8260B	644721
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	8260B	644721
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	8260B	644721
MB 500-645019/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-645019/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	3541	
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	3541	
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	3541	
500-212659-3 - DL	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	3541	
MB 500-644727/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644727/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 644945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	8270D	644727
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	8270D	644727
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	8270D	644727
MB 500-644727/1-A	Method Blank	Total/NA	Solid	8270D	644727
LCS 500-644727/2-A	Lab Control Sample	Total/NA	Solid	8270D	644727

Analysis Batch: 645437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-3 - DL	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	8270D	644727

Metals

Leach Batch: 644599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	TCLP	Solid	1311	
500-212659-2	2615V2-326-B02 (0-1)	TCLP	Solid	1311	
500-212659-3	2615V2-326-B01 (0-1.5)D	TCLP	Solid	1311	
LB 500-644599/1-B	Method Blank	TCLP	Solid	1311	
LB 500-644599/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 644602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	SPLP East	Solid	1312	
500-212659-2	2615V2-326-B02 (0-1)	SPLP East	Solid	1312	
500-212659-3	2615V2-326-B01 (0-1.5)D	SPLP East	Solid	1312	
LB 500-644602/1-B	Method Blank	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Metals

Prep Batch: 644784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	TCLP	Solid	3010A	644599
500-212659-2	2615V2-326-B02 (0-1)	TCLP	Solid	3010A	644599
500-212659-3	2615V2-326-B01 (0-1.5)D	TCLP	Solid	3010A	644599
LB 500-644599/2-B	Method Blank	TCLP	Solid	3010A	644599
LCS 500-644784/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	TCLP	Solid	7470A	644599
500-212659-2	2615V2-326-B02 (0-1)	TCLP	Solid	7470A	644599
500-212659-3	2615V2-326-B01 (0-1.5)D	TCLP	Solid	7470A	644599
LB 500-644599/1-B	Method Blank	TCLP	Solid	7470A	644599
MB 500-644818/13-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-644818/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 644993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	SPLP East	Solid	3010A	644602
500-212659-2	2615V2-326-B02 (0-1)	SPLP East	Solid	3010A	644602
500-212659-3	2615V2-326-B01 (0-1.5)D	SPLP East	Solid	3010A	644602
LB 500-644602/1-B	Method Blank	SPLP East	Solid	3010A	644602
LCS 500-644993/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 645035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	TCLP	Solid	6010B	644784
500-212659-2	2615V2-326-B02 (0-1)	TCLP	Solid	6010B	644784
500-212659-3	2615V2-326-B01 (0-1.5)D	TCLP	Solid	6010B	644784
LB 500-644599/2-B	Method Blank	TCLP	Solid	6010B	644784
LCS 500-644784/2-A	Lab Control Sample	Total/NA	Solid	6010B	644784

Analysis Batch: 645037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	TCLP	Solid	6020A	644784
500-212659-2	2615V2-326-B02 (0-1)	TCLP	Solid	6020A	644784
500-212659-3	2615V2-326-B01 (0-1.5)D	TCLP	Solid	6020A	644784
LB 500-644599/2-B	Method Blank	TCLP	Solid	6020A	644784
LCS 500-644784/2-A	Lab Control Sample	Total/NA	Solid	6020A	644784

Analysis Batch: 645126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	TCLP	Solid	7470A	644818
500-212659-2	2615V2-326-B02 (0-1)	TCLP	Solid	7470A	644818
500-212659-3	2615V2-326-B01 (0-1.5)D	TCLP	Solid	7470A	644818
LB 500-644599/1-B	Method Blank	TCLP	Solid	7470A	644818
MB 500-644818/13-A	Method Blank	Total/NA	Solid	7470A	644818
LCS 500-644818/14-A	Lab Control Sample	Total/NA	Solid	7470A	644818

Prep Batch: 645231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	3050B	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Metals (Continued)

Prep Batch: 645231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	3050B	
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	3050B	
MB 500-645231/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-645231/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-212659-1 MS	2615V2-326-B01 (0-1.5)	Total/NA	Solid	3050B	
500-212659-1 MSD	2615V2-326-B01 (0-1.5)	Total/NA	Solid	3050B	
500-212659-1 DU	2615V2-326-B01 (0-1.5)	Total/NA	Solid	3050B	

Prep Batch: 645247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	7471B	
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	7471B	
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	7471B	
MB 500-645247/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-645247/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 645435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	SPLP East	Solid	6010B	644993
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	6010B	645231
500-212659-2	2615V2-326-B02 (0-1)	SPLP East	Solid	6010B	644993
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	6010B	645231
500-212659-3	2615V2-326-B01 (0-1.5)D	SPLP East	Solid	6010B	644993
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	6010B	645231
LB 500-644602/1-B	Method Blank	SPLP East	Solid	6010B	644993
MB 500-645231/1-A	Method Blank	Total/NA	Solid	6010B	645231
LCS 500-644993/2-A	Lab Control Sample	Total/NA	Solid	6010B	644993
LCS 500-645231/2-A	Lab Control Sample	Total/NA	Solid	6010B	645231
500-212659-1 MS	2615V2-326-B01 (0-1.5)	Total/NA	Solid	6010B	645231
500-212659-1 MSD	2615V2-326-B01 (0-1.5)	Total/NA	Solid	6010B	645231
500-212659-1 DU	2615V2-326-B01 (0-1.5)	Total/NA	Solid	6010B	645231

Analysis Batch: 645492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	7471B	645247
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	7471B	645247
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	7471B	645247
MB 500-645247/12-A	Method Blank	Total/NA	Solid	7471B	645247
LCS 500-645247/13-A	Lab Control Sample	Total/NA	Solid	7471B	645247

Analysis Batch: 645529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	6010B	645231
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	6010B	645231
LCS 500-645231/2-A	Lab Control Sample	Total/NA	Solid	6010B	645231
500-212659-1 MS	2615V2-326-B01 (0-1.5)	Total/NA	Solid	6010B	645231
500-212659-1 MSD	2615V2-326-B01 (0-1.5)	Total/NA	Solid	6010B	645231
500-212659-1 DU	2615V2-326-B01 (0-1.5)	Total/NA	Solid	6010B	645231

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

General Chemistry

Analysis Batch: 644044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	Moisture	
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	Moisture	
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	Moisture	
500-212659-2 DU	2615V2-326-B02 (0-1)	Total/NA	Solid	Moisture	

Analysis Batch: 644557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212659-1	2615V2-326-B01 (0-1.5)	Total/NA	Solid	9045D	
500-212659-2	2615V2-326-B02 (0-1)	Total/NA	Solid	9045D	
500-212659-3	2615V2-326-B01 (0-1.5)D	Total/NA	Solid	9045D	
LCS 500-644557/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644557/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-212659-1	2615V2-326-B01 (0-1.5)	127	102	105	100
500-212659-2	2615V2-326-B02 (0-1)	119	98	99	101
500-212659-3	2615V2-326-B01 (0-1.5)D	117	108	109	99
LCS 500-645019/4	Lab Control Sample	103	106	98	92
MB 500-645019/6	Method Blank	116	104	98	94

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-212659-1	2615V2-326-B01 (0-1.5)	88	82	72	84	110	85
500-212659-2	2615V2-326-B02 (0-1)	83	77	64	74	115	83
500-212659-3	2615V2-326-B01 (0-1.5)D	81	75	63	74	105	79
500-212659-3 - DL	2615V2-326-B01 (0-1.5)D	120	55	60	83	56	102
LCS 500-644727/2-A	Lab Control Sample	96	95	79	92	106	87
MB 500-644727/1-A	Method Blank	89	86	72	84	97	92

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: MB 500-645019/6
Matrix: Solid
Analysis Batch: 645019

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			03/01/22 11:43	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			03/01/22 11:43	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			03/01/22 11:43	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			03/01/22 11:43	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			03/01/22 11:43	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			03/01/22 11:43	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			03/01/22 11:43	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			03/01/22 11:43	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			03/01/22 11:43	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			03/01/22 11:43	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			03/01/22 11:43	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			03/01/22 11:43	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			03/01/22 11:43	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			03/01/22 11:43	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			03/01/22 11:43	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			03/01/22 11:43	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			03/01/22 11:43	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			03/01/22 11:43	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			03/01/22 11:43	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			03/01/22 11:43	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			03/01/22 11:43	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			03/01/22 11:43	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			03/01/22 11:43	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			03/01/22 11:43	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			03/01/22 11:43	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			03/01/22 11:43	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			03/01/22 11:43	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			03/01/22 11:43	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			03/01/22 11:43	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			03/01/22 11:43	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			03/01/22 11:43	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			03/01/22 11:43	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			03/01/22 11:43	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			03/01/22 11:43	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			03/01/22 11:43	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			03/01/22 11:43	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			03/01/22 11:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	116		75 - 131		03/01/22 11:43	1
Dibromofluoromethane	104		75 - 126		03/01/22 11:43	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/01/22 11:43	1
Toluene-d8 (Surr)	94		75 - 124		03/01/22 11:43	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: LCS 500-645019/4
Matrix: Solid
Analysis Batch: 645019

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0484		mg/Kg		97	40 - 150
Benzene	0.0500	0.0474		mg/Kg		95	70 - 125
Bromodichloromethane	0.0500	0.0496		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0574		mg/Kg		115	68 - 136
Bromomethane	0.0500	0.0405		mg/Kg		81	70 - 130
2-Butanone (MEK)	0.0500	0.0474		mg/Kg		95	47 - 138
Carbon disulfide	0.0500	0.0482		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0531		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0515		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0429		mg/Kg		86	75 - 125
Chloroform	0.0500	0.0536		mg/Kg		107	57 - 135
Chloromethane	0.0500	0.0429		mg/Kg		86	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0523		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0453		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0525		mg/Kg		105	69 - 125
1,1-Dichloroethane	0.0500	0.0515		mg/Kg		103	70 - 125
1,2-Dichloroethane	0.0500	0.0521		mg/Kg		104	70 - 130
1,1-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0507		mg/Kg		101	61 - 136
2-Hexanone	0.0500	0.0408		mg/Kg		82	48 - 146
Methylene Chloride	0.0500	0.0499		mg/Kg		100	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0397		mg/Kg		79	50 - 148
Methyl tert-butyl ether	0.0500	0.0498		mg/Kg		100	50 - 140
Styrene	0.0500	0.0497		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0540		mg/Kg		108	70 - 122
Tetrachloroethene	0.0500	0.0510		mg/Kg		102	70 - 124
Toluene	0.0500	0.0463		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0515		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0486		mg/Kg		97	70 - 125
1,1,1-Trichloroethane	0.0500	0.0550		mg/Kg		110	70 - 128
1,1,2-Trichloroethane	0.0500	0.0482		mg/Kg		96	70 - 125
Trichloroethene	0.0500	0.0499		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0405		mg/Kg		81	40 - 153
Vinyl chloride	0.0500	0.0461		mg/Kg		92	70 - 125
Xylenes, Total	0.100	0.0989		mg/Kg		99	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		75 - 131
Dibromofluoromethane	106		75 - 126
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: MB 500-644727/1-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644727

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/28/22 06:20	03/01/22 09:47	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: MB 500-644727/1-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/28/22 06:20	03/01/22 09:47	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/28/22 06:20	03/01/22 09:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		31 - 166	02/28/22 06:20	03/01/22 09:47	1
Phenol-d5	86		30 - 153	02/28/22 06:20	03/01/22 09:47	1
Nitrobenzene-d5 (Surr)	72		37 - 147	02/28/22 06:20	03/01/22 09:47	1
2-Fluorobiphenyl (Surr)	84		43 - 145	02/28/22 06:20	03/01/22 09:47	1
2,4,6-Tribromophenol	97		31 - 143	02/28/22 06:20	03/01/22 09:47	1
Terphenyl-d14 (Surr)	92		42 - 157	02/28/22 06:20	03/01/22 09:47	1

Lab Sample ID: LCS 500-644727/2-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.45		mg/Kg		109	56 - 122
Bis(2-chloroethyl)ether	1.33	0.975		mg/Kg		73	55 - 111
1,3-Dichlorobenzene	1.33	1.10		mg/Kg		83	65 - 124
1,4-Dichlorobenzene	1.33	1.13		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.13		mg/Kg		84	62 - 110
2-Methylphenol	1.33	1.12		mg/Kg		84	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	0.697		mg/Kg		52	40 - 124
N-Nitrosodi-n-propylamine	1.33	0.931		mg/Kg		70	56 - 118
Hexachloroethane	1.33	0.960		mg/Kg		72	60 - 114
2-Chlorophenol	1.33	1.17		mg/Kg		88	64 - 110
Nitrobenzene	1.33	0.998		mg/Kg		75	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.01		mg/Kg		76	60 - 112
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	66 - 117
Isophorone	1.33	0.990		mg/Kg		74	55 - 110
2,4-Dimethylphenol	1.33	1.23		mg/Kg		93	60 - 110
Hexachlorobutadiene	1.33	1.30		mg/Kg		98	56 - 120
Naphthalene	1.33	1.16		mg/Kg		87	63 - 110
2,4-Dichlorophenol	1.33	1.30		mg/Kg		97	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: LCS 500-644727/2-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.05		mg/Kg		79	30 - 150
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		94	57 - 120
2,4,5-Trichlorophenol	1.33	1.30		mg/Kg		97	50 - 120
Hexachlorocyclopentadiene	1.33	0.837		mg/Kg		63	10 - 133
2-Methylnaphthalene	1.33	1.29		mg/Kg		96	69 - 112
2-Nitroaniline	1.33	0.941		mg/Kg		71	57 - 124
2-Chloronaphthalene	1.33	1.12		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.15		mg/Kg		86	65 - 122
2,6-Dinitrotoluene	1.33	1.17		mg/Kg		88	70 - 123
2-Nitrophenol	1.33	1.19		mg/Kg		90	60 - 120
3-Nitroaniline	1.33	0.766		mg/Kg		57	40 - 122
Dimethyl phthalate	1.33	1.14		mg/Kg		85	69 - 116
2,4-Dinitrophenol	2.67	1.38		mg/Kg		52	10 - 100
Acenaphthylene	1.33	1.18		mg/Kg		88	68 - 120
2,4-Dinitrotoluene	1.33	1.27		mg/Kg		96	69 - 124
Acenaphthene	1.33	1.14		mg/Kg		85	65 - 124
Dibenzofuran	1.33	1.21		mg/Kg		91	66 - 115
4-Nitrophenol	2.67	2.44		mg/Kg		92	30 - 122
Fluorene	1.33	1.13		mg/Kg		85	62 - 120
4-Nitroaniline	1.33	0.883		mg/Kg		66	60 - 160
4-Bromophenyl phenyl ether	1.33	1.25		mg/Kg		94	68 - 118
Hexachlorobenzene	1.33	1.38		mg/Kg		103	63 - 124
Diethyl phthalate	1.33	1.25		mg/Kg		94	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Pentachlorophenol	2.67	2.07		mg/Kg		78	13 - 112
N-Nitrosodiphenylamine	1.33	1.16		mg/Kg		87	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.99		mg/Kg		75	10 - 110
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Anthracene	1.33	1.16		mg/Kg		87	70 - 114
Carbazole	1.33	1.18		mg/Kg		89	65 - 142
Di-n-butyl phthalate	1.33	1.19		mg/Kg		89	65 - 120
Fluoranthene	1.33	1.18		mg/Kg		89	62 - 120
Pyrene	1.33	1.08		mg/Kg		81	61 - 128
Butyl benzyl phthalate	1.33	1.01		mg/Kg		76	71 - 129
Benzo[a]anthracene	1.33	1.06		mg/Kg		80	67 - 122
Chrysene	1.33	1.10		mg/Kg		82	63 - 120
3,3'-Dichlorobenzidine	1.33	0.777		mg/Kg		58	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.08		mg/Kg		81	72 - 131
Di-n-octyl phthalate	1.33	1.17		mg/Kg		88	68 - 134
Benzo[b]fluoranthene	1.33	1.13		mg/Kg		85	69 - 129
Benzo[k]fluoranthene	1.33	1.23		mg/Kg		92	68 - 127
Benzo[a]pyrene	1.33	1.27		mg/Kg		95	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.21		mg/Kg		91	68 - 130
Dibenz(a,h)anthracene	1.33	1.23		mg/Kg		92	64 - 131
Benzo[g,h,i]perylene	1.33	1.20		mg/Kg		90	72 - 131
3 & 4 Methylphenol	1.33	1.33		mg/Kg		100	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: LCS 500-644727/2-A
Matrix: Solid
Analysis Batch: 644945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644727

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	96		31 - 166
Phenol-d5	95		30 - 153
Nitrobenzene-d5 (Surr)	79		37 - 147
2-Fluorobiphenyl (Surr)	92		43 - 145
2,4,6-Tribromophenol	106		31 - 143
Terphenyl-d14 (Surr)	87		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-644784/2-A
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644784

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0462		mg/L		92	80 - 120
Boron	1.00	0.916		mg/L		92	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Iron	1.00	0.814		mg/L		81	80 - 120
Lead	0.100	0.0965		mg/L		96	80 - 120
Manganese	0.500	0.483		mg/L		97	80 - 120
Nickel	0.500	0.516		mg/L		103	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0533		mg/L		107	80 - 120
Zinc	0.500	0.568		mg/L		114	80 - 120

Lab Sample ID: LCS 500-644993/2-A
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644993

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Manganese	0.500	0.461		mg/L		92	80 - 120

Lab Sample ID: MB 500-645231/1-A
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645231

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Arsenic	<1.0		1.0	0.34	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Barium	<1.0		1.0	0.11	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Beryllium	<0.40		0.40	0.093	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Boron	<5.0		5.0	0.47	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Cadmium	0.0384	J	0.20	0.036	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Calcium	6.56	J	20	3.4	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Chromium	1.66		1.0	0.50	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Cobalt	<0.50		0.50	0.13	mg/Kg		03/02/22 08:40	03/02/22 22:18	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: MB 500-645231/1-A
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645231

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	<1.0		1.0	0.28	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Iron	15.2	J	20	10	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Lead	<0.50		0.50	0.23	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Magnesium	<10		10	5.0	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Manganese	<1.0		1.0	0.15	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Nickel	0.299	J	1.0	0.29	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Potassium	<50		50	18	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Selenium	<1.0		1.0	0.59	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Silver	<0.50		0.50	0.13	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Sodium	<100		100	15	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Thallium	<1.0		1.0	0.50	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Vanadium	<0.50		0.50	0.12	mg/Kg		03/02/22 08:40	03/02/22 22:18	1
Zinc	<2.0		2.0	0.88	mg/Kg		03/02/22 08:40	03/02/22 22:18	1

Lab Sample ID: LCS 500-645231/2-A
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	8.29		mg/Kg		83	80 - 120
Barium	200	182		mg/Kg		91	80 - 120
Beryllium	5.00	4.50		mg/Kg		90	80 - 120
Boron	100	81.2		mg/Kg		81	80 - 120
Cadmium	5.00	4.63		mg/Kg		93	80 - 120
Calcium	1000	874		mg/Kg		87	80 - 120
Chromium	20.0	21.1		mg/Kg		105	80 - 120
Cobalt	50.0	47.2		mg/Kg		94	80 - 120
Copper	25.0	23.4		mg/Kg		94	80 - 120
Iron	100	115		mg/Kg		115	80 - 120
Lead	10.0	8.92		mg/Kg		89	80 - 120
Magnesium	1000	888		mg/Kg		89	80 - 120
Manganese	50.0	43.9		mg/Kg		88	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Potassium	1000	965		mg/Kg		96	80 - 120
Silver	5.00	4.44		mg/Kg		89	80 - 120
Sodium	1000	984		mg/Kg		98	80 - 120
Thallium	10.0	8.81		mg/Kg		88	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120
Zinc	50.0	46.9		mg/Kg		94	80 - 120

Lab Sample ID: LCS 500-645231/2-A
Matrix: Solid
Analysis Batch: 645529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: 500-212659-1 MS

Matrix: Solid

Analysis Batch: 645435

Client Sample ID: 2615V2-326-B01 (0-1.5)

Prep Type: Total/NA

Prep Batch: 645231

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.70	J F1 F2	30.0	7.23	F1	mg/Kg	⊛	22	75 - 125
Arsenic	7.6	F1	6.00	10.4	F1	mg/Kg	⊛	48	75 - 125
Barium	69	F1	120	155	F1	mg/Kg	⊛	72	75 - 125
Beryllium	0.62		3.00	3.32		mg/Kg	⊛	90	75 - 125
Boron	11		60.0	56.4		mg/Kg	⊛	76	75 - 125
Cadmium	0.41	B	3.00	3.05		mg/Kg	⊛	88	75 - 125
Chromium	13	B	12.0	22.9		mg/Kg	⊛	84	75 - 125
Cobalt	7.5		30.0	35.1		mg/Kg	⊛	92	75 - 125
Copper	39		15.0	51.3		mg/Kg	⊛	84	75 - 125
Iron	13000	B	60.0	12100	4	mg/Kg	⊛	-847	75 - 125
Lead	110		6.00	103	4	mg/Kg	⊛	-152	75 - 125
Magnesium	34000		600	47200	E 4	mg/Kg	⊛	2226	75 - 125
Manganese	250		30.0	280	4	mg/Kg	⊛	99	75 - 125
Nickel	22	B	30.0	46.8		mg/Kg	⊛	84	75 - 125
Potassium	1100	F1	600	2350	F1	mg/Kg	⊛	202	75 - 125
Selenium	<0.60		6.00	4.55		mg/Kg	⊛	76	75 - 125
Silver	0.54		3.00	3.14		mg/Kg	⊛	86	75 - 125
Sodium	400		600	950		mg/Kg	⊛	92	75 - 125
Thallium	0.41	J	6.00	5.10		mg/Kg	⊛	78	75 - 125
Vanadium	15		30.0	39.1		mg/Kg	⊛	79	75 - 125
Zinc	120		30.0	155	4	mg/Kg	⊛	103	75 - 125

Lab Sample ID: 500-212659-1 MS

Matrix: Solid

Analysis Batch: 645529

Client Sample ID: 2615V2-326-B01 (0-1.5)

Prep Type: Total/NA

Prep Batch: 645231

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Calcium	79000	B	600	113000	4	mg/Kg	⊛	5700	75 - 125

Lab Sample ID: 500-212659-1 MSD

Matrix: Solid

Analysis Batch: 645435

Client Sample ID: 2615V2-326-B01 (0-1.5)

Prep Type: Total/NA

Prep Batch: 645231

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	0.70	J F1 F2	27.9	5.81	F1 F2	mg/Kg	⊛	18	75 - 125	22	20
Arsenic	7.6	F1	5.57	9.90	F1	mg/Kg	⊛	42	75 - 125	5	20
Barium	69	F1	111	153		mg/Kg	⊛	75	75 - 125	1	20
Beryllium	0.62		2.79	3.12		mg/Kg	⊛	90	75 - 125	6	20
Boron	11		55.7	52.8		mg/Kg	⊛	76	75 - 125	7	20
Cadmium	0.41	B	2.79	2.85		mg/Kg	⊛	88	75 - 125	7	20
Chromium	13	B	11.1	22.2		mg/Kg	⊛	84	75 - 125	3	20
Cobalt	7.5		27.9	33.7		mg/Kg	⊛	94	75 - 125	4	20
Copper	39		13.9	49.4		mg/Kg	⊛	77	75 - 125	4	20
Iron	13000	B	55.7	11400	4	mg/Kg	⊛	-2133	75 - 125	6	20
Lead	110		5.57	112	4	mg/Kg	⊛	-17	75 - 125	8	20
Magnesium	34000		557	41900	E 4	mg/Kg	⊛	1440	75 - 125	12	20
Manganese	250		27.9	247	4	mg/Kg	⊛	-14	75 - 125	13	20
Nickel	22	B	27.9	46.6		mg/Kg	⊛	89	75 - 125	0	20
Potassium	1100	F1	557	2360	F1	mg/Kg	⊛	218	75 - 125	0	20

Eurofins Chicago

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: 500-212659-1 MSD
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: 2615V2-326-B01 (0-1.5)
Prep Type: Total/NA
Prep Batch: 645231

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Selenium	<0.60		5.57	4.34		mg/Kg	⊛	78	75 - 125	5	20
Silver	0.54		2.79	2.92		mg/Kg	⊛	85	75 - 125	7	20
Sodium	400		557	890		mg/Kg	⊛	89	75 - 125	6	20
Thallium	0.41	J	5.57	4.81		mg/Kg	⊛	79	75 - 125	6	20
Vanadium	15		27.9	38.6		mg/Kg	⊛	83	75 - 125	1	20
Zinc	120		27.9	151	4	mg/Kg	⊛	100	75 - 125	2	20

Lab Sample ID: 500-212659-1 MSD
Matrix: Solid
Analysis Batch: 645529

Client Sample ID: 2615V2-326-B01 (0-1.5)
Prep Type: Total/NA
Prep Batch: 645231

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	79000	B	557	108000	4	mg/Kg	⊛	5248	75 - 125	4	20

Lab Sample ID: 500-212659-1 DU
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: 2615V2-326-B01 (0-1.5)
Prep Type: Total/NA
Prep Batch: 645231

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.70	J F1 F2	0.750	J	mg/Kg	⊛	7	20
Arsenic	7.6	F1	6.86		mg/Kg	⊛	10	20
Barium	69	F1	67.0		mg/Kg	⊛	3	20
Beryllium	0.62		0.677		mg/Kg	⊛	8	20
Boron	11		16.2	F3	mg/Kg	⊛	40	20
Cadmium	0.41	B	0.441		mg/Kg	⊛	8	20
Chromium	13	B	12.4		mg/Kg	⊛	3	20
Cobalt	7.5		6.86		mg/Kg	⊛	9	20
Copper	39		43.4		mg/Kg	⊛	12	20
Iron	13000	B	11900		mg/Kg	⊛	5	20
Lead	110		127		mg/Kg	⊛	12	20
Magnesium	34000		41100	E	mg/Kg	⊛	19	20
Manganese	250		229		mg/Kg	⊛	9	20
Nickel	22	B	21.7		mg/Kg	⊛	0.4	20
Potassium	1100	F1	1280		mg/Kg	⊛	11	20
Selenium	<0.60		<0.59		mg/Kg	⊛	NC	20
Silver	0.54		0.256	J F5	mg/Kg	⊛	72	20
Sodium	400		504	F3	mg/Kg	⊛	24	20
Thallium	0.41	J	0.665	F5	mg/Kg	⊛	48	20
Vanadium	15		14.0		mg/Kg	⊛	10	20
Zinc	120		138		mg/Kg	⊛	11	20

Lab Sample ID: 500-212659-1 DU
Matrix: Solid
Analysis Batch: 645529

Client Sample ID: 2615V2-326-B01 (0-1.5)
Prep Type: Total/NA
Prep Batch: 645231

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	79000	B	98200	F3	mg/Kg	⊛	22	20

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

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

Lab Sample ID: LB 500-644599/2-B
Matrix: Solid
Analysis Batch: 645035

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644784

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/28/22 08:59	02/28/22 22:40	1
Boron	<0.50		0.50	0.050	mg/L		02/28/22 08:59	02/28/22 22:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/28/22 08:59	02/28/22 22:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Cobalt	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Iron	<0.40		0.40	0.20	mg/L		02/28/22 08:59	02/28/22 22:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/28/22 08:59	02/28/22 22:40	1
Manganese	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Nickel	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Selenium	0.0220	J	0.050	0.020	mg/L		02/28/22 08:59	02/28/22 22:40	1
Silver	<0.025		0.025	0.010	mg/L		02/28/22 08:59	02/28/22 22:40	1
Zinc	<0.50		0.50	0.020	mg/L		02/28/22 08:59	02/28/22 22:40	1

Lab Sample ID: LB 500-644602/1-B
Matrix: Solid
Analysis Batch: 645435

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644993

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		03/01/22 07:56	03/02/22 21:09	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644784/2-A
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644784
%Rec.

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.500	0.501		mg/L		100	80 - 120
Thallium	0.100	0.0999		mg/L		100	80 - 120

Lab Sample ID: LB 500-644599/2-B
Matrix: Solid
Analysis Batch: 645037

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644784

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/28/22 08:59	02/28/22 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/28/22 08:59	02/28/22 17:56	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644818/13-A
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644818

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 18:55	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-644818/14-A
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644818
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00195		mg/L		98	80 - 120

Lab Sample ID: LB 500-644599/1-B
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644818

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 18:53	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-645247/12-A
Matrix: Solid
Analysis Batch: 645492

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		03/02/22 12:02	03/03/22 10:29	1

Lab Sample ID: LCS 500-645247/13-A
Matrix: Solid
Analysis Batch: 645492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645247
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.172		mg/Kg		103	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)

Lab Sample ID: 500-212659-1

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 21:16	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 22:46	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:00	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 18:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 10:53	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-326-B01 (0-1.5)

Lab Sample ID: 500-212659-1

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 19:26	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 10:35	SS	TAL CHI
Total/NA	Prep	3050B			645231	03/02/22 08:40	BDE	TAL CHI
Total/NA	Analysis	6010B		1	645435	03/02/22 22:31	JJB	TAL CHI
Total/NA	Prep	3050B			645231	03/02/22 08:40	BDE	TAL CHI
Total/NA	Analysis	6010B		5	645529	03/03/22 13:09	JJB	TAL CHI
Total/NA	Prep	7471B			645247	03/02/22 12:02		TAL CHI
Total/NA	Analysis	7471B		1	645492	03/03/22 11:18	MJG	TAL CHI

Client Sample ID: 2615V2-326-B02 (0-1)

Lab Sample ID: 500-212659-2

Date Collected: 02/21/22 15:05

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 21:19	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 22:50	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:02	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B02 (0-1)

Lab Sample ID: 500-212659-2

Date Collected: 02/21/22 15:05

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 10:55	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Client Sample ID: 2615V2-326-B02 (0-1)

Lab Sample ID: 500-212659-2

Date Collected: 02/21/22 15:05

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 19:52	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 10:59	SS	TAL CHI
Total/NA	Prep	3050B			645231	03/02/22 08:40	BDE	TAL CHI
Total/NA	Analysis	6010B		1	645435	03/02/22 22:49	JJB	TAL CHI
Total/NA	Prep	7471B			645247	03/02/22 12:02		TAL CHI
Total/NA	Analysis	7471B		1	645492	03/03/22 11:20	MJG	TAL CHI

Client Sample ID: 2615V2-326-B01 (0-1.5)D

Lab Sample ID: 500-212659-3

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644602	02/25/22 16:10	EA	TAL CHI
SPLP East	Prep	3010A			644993	03/01/22 07:56	BDE	TAL CHI
SPLP East	Analysis	6010B		1	645435	03/02/22 21:22	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6010B		1	645035	02/28/22 22:53	JJB	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	3010A			644784	02/28/22 08:59	BDE	TAL CHI
TCLP	Analysis	6020A		1	645037	02/28/22 18:04	FXG	TAL CHI
TCLP	Leach	1311			644599	02/25/22 16:29	EA	TAL CHI
TCLP	Prep	7470A			644818	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 19:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644557	02/25/22 10:58	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	644044	02/23/22 11:26	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Client Sample ID: 2615V2-326-B01 (0-1.5)D

Lab Sample ID: 500-212659-3

Date Collected: 02/21/22 15:00

Matrix: Solid

Date Received: 02/21/22 16:40

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644721	02/21/22 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		1	645019	03/01/22 20:18	PMF	TAL CHI
Total/NA	Prep	3541			644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D		1	644945	03/01/22 11:23	SS	TAL CHI
Total/NA	Prep	3541	DL		644727	02/28/22 06:20	SB	TAL CHI
Total/NA	Analysis	8270D	DL	5	645437	03/03/22 11:40	JSB	TAL CHI
Total/NA	Prep	3050B			645231	03/02/22 08:40	BDE	TAL CHI
Total/NA	Analysis	6010B		1	645435	03/02/22 22:52	JJB	TAL CHI
Total/NA	Prep	3050B			645231	03/02/22 08:40	BDE	TAL CHI
Total/NA	Analysis	6010B		5	645529	03/03/22 13:25	JJB	TAL CHI
Total/NA	Prep	7471B			645247	03/02/22 12:02		TAL CHI
Total/NA	Analysis	7471B		1	645492	03/03/22 11:26	MJG	TAL CHI

Laboratory References:

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



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO008 Byrne Interchange

Job ID: 500-212659-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

Chain of Custody Record

542663



Environment Testing
TestAmerica

TAL-8210

Address _____



Regulatory Program: DW NPDES RCRA Other

Client Contact
Company Name **WSP**
Address _____
City/State/Zip _____
Phone _____
Fax _____
Project Name **WOOD Greenway**
Site **Fri 00/94/270**
P O # _____

500-212659 COC

Project Manager **D. Tiekort** Site Contact _____ Date **2/21/22** COC No **2**
Tel/Email _____ Lab Contact **D. Wright** Carrier _____ **2** of **2** COCs

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below _____
 2 weeks
 1 week **(standard)**
 2 days
 1 day

For Lab Use Only
Walk-in Client _____
Lab Sampling _____
Job / SDG No
500-212659

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Perform MS / MSD (Y / N)						Sample Specific Notes
						Filtered	VOC	SVOC	Metal	ICLP	P.H.	
1 2615 V2-326-B01 (0-1.5)	2/21/22	15:00	G	S	5	X	X	X	X	X	X	
2 2615 V2-326-B02 (0-1)	2/21/22	15:05	G	S	5	X	X	X	X	X	X	
3 2615 V2-326-B01 (0-1.5) DUP	2/21/22	15:00	G	S	5	X	X	X	X	X	X	

Caroline M. Cooper

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

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
 Non Hazard Flammable Skin Irritant Poison B Unknown

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

Special Instructions/QC Requirements & Comments

Custody Seals Intact Yes No Custody Seal No _____ Cooler Temp (°C) Obs'd **4.8** Corr'd **3.8** Therm ID No _____

Relinquished by Caitlyn Cooper	Company WSP	Date/Time 2/21/22 15:00	Received by P. Neal	Company eurofins	Date/Time 2/21/22 15:50
Relinquished by P. Neal	Company eurofins	Date/Time 2/21/22 16:40	Received by _____	Company _____	Date/Time _____
Relinquished by _____	Company _____	Date/Time _____	Received in Laboratory by John Cook	Company ERT	Date/Time 2/21/22 16:40

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212659-1

Login Number: 212659

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	