



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1587 (123rd Street) Office Phone Number, if available: _____

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

9100-9400 blocks of 123rd Street (ISGS #3359V-4)

City: Palos Park State: IL Zip Code: 60464

County: Cook Township: Palos

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

Latitude: 41.66693 Longitude: - 87.848
(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.): 169

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):

Location 359V-04-B02 was sampled within the construction zone adjacent to ISGS #3359V-4 (Mill Creek). Refer to PSI Report for ISGS #3359V-4 (Mill Creek) including Table 4-3, and Figure 4-1.

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 J226836-1.


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.

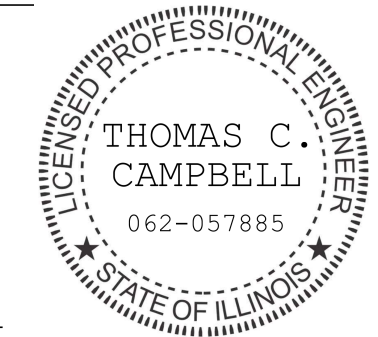
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

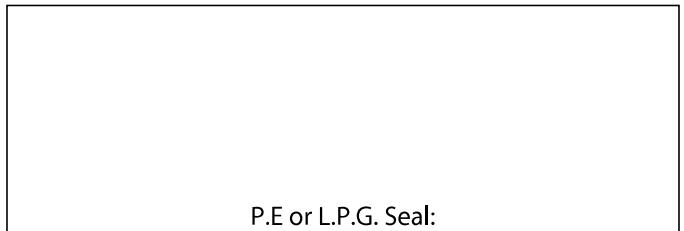
Tom Campbell
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

07/10/2023
Date:



Expires: 11/30/2023


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



Analytical Data Summary

PTB #196-002; IDOT Job #D-91-441-20; Work Order 19 - IDOT Project # D-91-080-16

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.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

PTB #196-002; IDOT Job #D-91-441-20; Work Order 19 - IDOT Project # D-91-080-16

CONTAMINANTS OF CONCERN

SITE	ISGS #3359V-4 (Mill Creek)		Comparison Criteria					
	3359V-04-B02		MACs			TACO		
BORING	3359V-04-B02		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	3359V-04-B02 (0-6)	3359V-04-B02 (6-11)						
MATRIX	Soil	Soil						
DEPTH (feet)	0-6	6-11						
pH	8.0	8.0						
PID (meter units)	--	--						
VOCs (mg/kg)								
Acetone	0.020	0.017 J+	25	--	--	70,000	100,000	--
SVOCs (mg/kg)								
2-Methylnaphthalene	ND UJ	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	--	--	0.25	--	--	--
Anthracene	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.018 J	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.014 J	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.019 J	ND U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.014 J	ND U	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	9	--	8.1	9	1,700	--
Carbazole	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.012 J	ND U	88	--	11	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	0.09	0.42	1	0.42	17	--
Dibenzofuran	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.019 J	ND U	3,100	--	28	3,100	82,000	--
Fluorene	ND UJ	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.024 J	ND U	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND UJ	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	0.0072 J	ND U	--	--	15	--	--	--
Pyrene	0.017 J	ND U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)								
Antimony	1.2	1.0 J	5	--	--	31	82	--
Arsenic	13 †	13 †	11.3	13	--	13	61	--
Barium	38	80	1,500	--	--	5,500	14,000	--
Beryllium	0.71	0.66	22	--	--	160	410	--
Boron	6.1	7.6	40	--	--	16,000	41,000	--
Calcium	52,000	47,000	--	--	--	--	--	--
Chromium	9.5	9.8	21	--	--	230	690	--
Cobalt	11	13	20	--	--	4,700	12,000	--
Copper	18	20	2,900	--	--	2,900	8,200	--
Iron	23,000 †m	21,000 †m	15,000	15,900	--	--	--	--
Lead	26	16	107	--	--	400	700	--
Magnesium	27,000	23,000	325,000	--	--	--	730,000	--
Manganese	450	440	630	636	--	1,600	4,100	--
Mercury	0.029	0.016 J	0.89	--	--	10	0.1	--
Nickel	18	22	100	--	--	1,600	4,100	--
Potassium	1,200	1,300	--	--	--	--	--	--
Selenium	0.35 J	0.39 J	1.3	--	--	390	1,000	--
Silver	0.22 J	0.24 J	4.4	--	--	390	1,000	--
Sodium	1,400	530	--	--	--	--	--	--
Vanadium	15	16	550	--	--	550	1,400	--
Zinc	62	54	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	0.25 J	0.90	--	--	--	--	--	2
Boron	0.16 J	0.17 J	--	--	--	--	--	2
Cadmium	ND U	ND U	--	--	--	--	--	0.005
Cobalt	ND U	0.033	--	--	--	--	--	1
Iron	ND U	ND U	--	--	--	--	--	5
Manganese	1.7 L	7.0 L	--	--	--	--	--	0.15
Nickel	ND U	0.018 J	--	--	--	--	--	0.1
SPLP Metals (mg/L)								
Manganese	3.0 L	1.1 L	--	--	--	--	--	0.15

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Generated 6/8/2023 12:51:08 PM

JOB DESCRIPTION

IDOT - 196-002-WO 19 - Palos Park

JOB NUMBER

500-234079-1

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Jim Knapp, Project Manager II
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(630)758-0262



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Job ID: 500-234079-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-234079-1

Receipt

The samples were received on 5/19/2023 3:10 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 6.0° C.

GC/MS VOA

Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: 3359V-04-B02 (6-11) (500-234079-2) and 3359V-04-B01 (6-11) DUP (500-234079-6). 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: Surrogate 4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) recovery for the following samples were outside the upper control limit: 3359V-04-B02 (6-11) (500-234079-2), 3359V-04-B01 (6-11) DUP (500-234079-6) and 3359V-05-B01 (0-5) (500-234079-7). 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 500-715936 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol. 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 500-715936 was outside the method criteria for the following analyte(s): 3,3'-Dichlorobenzidine. 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 and one acid surrogate outside acceptance limits: (500-234079-E-1-C MSD). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

Methods 6020A, 6020B:

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-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020		0.018	0.0078	mg/Kg	1	✳	8260B	Total/NA
Benzo[a]anthracene	0.018	J	0.037	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.037	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.019	J	0.037	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J F1	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.012	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.019	J	0.037	0.0070	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.037	0.0097	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.0072	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.017	J	0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	1.2		1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	13		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	38		0.53	0.061	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.71		0.21	0.050	mg/Kg	1	✳	6010B	Total/NA
Boron	6.1		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.14	B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	52000		53	9.0	mg/Kg	5	✳	6010B	Total/NA
Chromium	9.5		0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.27	0.070	mg/Kg	1	✳	6010B	Total/NA
Copper	18	B	0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		11	5.5	mg/Kg	1	✳	6010B	Total/NA
Lead	26		0.27	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000		5.3	2.6	mg/Kg	1	✳	6010B	Total/NA
Manganese	450		0.53	0.077	mg/Kg	1	✳	6010B	Total/NA
Nickel	18		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	1200		27	9.4	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.35	J	0.53	0.31	mg/Kg	1	✳	6010B	Total/NA
Silver	0.22	J	0.27	0.069	mg/Kg	1	✳	6010B	Total/NA
Sodium	1400		53	7.9	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.27	0.063	mg/Kg	1	✳	6010B	Total/NA
Zinc	62		1.1	0.47	mg/Kg	1	✳	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.023	J B	0.050	0.020	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0090	mg/Kg	1	✳	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017	J	0.021	0.0092	mg/Kg	1	✳	8260B	Total/NA
Antimony	1.0	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	13		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	80		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.66		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	7.6		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.17	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	47000		58	9.8	mg/Kg	5	✳	6010B	Total/NA
Chromium	9.8		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-234079-1

Project/Site: IDOT - 196-002-WO 19 - Palos Park

Client Sample ID: 3359V-04-B02 (6-11) (Continued)

Lab Sample ID: 500-234079-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cobalt	13		0.29	0.076	mg/Kg	1	✳		6010B	Total/NA
Copper	20	B	0.58	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	21000		12	6.0	mg/Kg	1	✳		6010B	Total/NA
Lead	16		0.29	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	23000		5.8	2.9	mg/Kg	1	✳		6010B	Total/NA
Manganese	440		0.58	0.084	mg/Kg	1	✳		6010B	Total/NA
Nickel	22		0.58	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	1300		29	10	mg/Kg	1	✳		6010B	Total/NA
Selenium	0.39	J	0.58	0.34	mg/Kg	1	✳		6010B	Total/NA
Silver	0.24	J	0.29	0.075	mg/Kg	1	✳		6010B	Total/NA
Sodium	530		58	8.6	mg/Kg	1	✳		6010B	Total/NA
Vanadium	16		0.29	0.069	mg/Kg	1	✳		6010B	Total/NA
Zinc	54		1.2	0.51	mg/Kg	1	✳		6010B	Total/NA
Barium	0.90		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.17	J	0.50	0.050	mg/L	1			6010B	TCLP
Cobalt	0.033		0.025	0.010	mg/L	1			6010B	TCLP
Manganese	7.0		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1			6010B	TCLP
Selenium	0.025	J B	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.022	J B	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.016	J	0.018	0.0095	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-WO 19 - Palos Park

Job ID: 500-234079-1

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

EET 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-WO 19 - Palos Park

Job ID: 500-234079-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
500-234079-1	3359V-04-B02 (0-6)	Solid	05/19/23 10:20	05/19/23 15:10
500-234079-2	3359V-04-B02 (6-11)	Solid	05/19/23 10:30	05/19/23 15:10

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.018	0.0078	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		75 - 131	05/20/23 15:17	05/29/23 16:37	1
Dibromofluoromethane	106		75 - 126	05/20/23 15:17	05/29/23 16:37	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	05/20/23 15:17	05/29/23 16:37	1
Toluene-d8 (Surr)	116		75 - 124	05/20/23 15:17	05/29/23 16:37	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Benzo[a]anthracene	0.018	J	0.037	0.0051	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.014	J	0.037	0.0073	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Benzo[b]fluoranthene	0.019	J	0.037	0.0081	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Benzo[g,h,i]perylene	0.014	J F1	0.037	0.012	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Bis(2-chloroethoxy)methane	<0.19	F1	0.19	0.038	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Bis(2-chloroethyl)ether	<0.19	F1 F2	0.19	0.056	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Chlorophenol	<0.19	F1 F2	0.19	0.064	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Chlorophenyl phenyl ether	<0.19	F1	0.19	0.044	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Chrysene	0.012	J	0.037	0.010	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
1,2-Dichlorobenzene	<0.19	F1 F2	0.19	0.045	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
1,3-Dichlorobenzene	<0.19	F1	0.19	0.042	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
1,4-Dichlorobenzene	<0.19	F1 F2	0.19	0.048	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
3,3'-Dichlorobenzidine	<0.19	F2	0.19	0.053	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4,6-Dinitro-2-methylphenol	<0.76	F2	0.76	0.30	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,4-Dinitrophenol	<0.76	F1 F2	0.76	0.66	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Fluoranthene	0.019	J	0.037	0.0070	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Fluorene	<0.037	F1	0.037	0.0053	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Hexachlorobutadiene	<0.19	F1 F2	0.19	0.059	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Hexachlorocyclopentadiene	<0.76	F2	0.76	0.22	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Hexachloroethane	<0.19	F1	0.19	0.057	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Indeno[1,2,3-cd]pyrene	0.024	J	0.037	0.0097	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Methylnaphthalene	<0.076	F1	0.076	0.0069	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Methylphenol	<0.19	F1	0.19	0.060	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Naphthalene	<0.037	F1 F2	0.037	0.0058	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Nitroaniline	<0.37	F2	0.37	0.16	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Nitrobenzene	<0.037	F1 F2	0.037	0.0094	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Nitrophenol	<0.37	F1 F2	0.37	0.089	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
N-Nitrosodi-n-propylamine	<0.076	F1	0.076	0.046	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
2,2'-oxybis[1-chloropropane]	<0.19	F1 F2	0.19	0.044	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
Pentachlorophenol	<0.76	F2	0.76	0.60	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
Phenanthrene	0.0072	J	0.037	0.0052	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
Phenol	<0.19	F1 F2	0.19	0.084	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
Pyrene	0.017	J	0.037	0.0075	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
1,2,4-Trichlorobenzene	<0.19	F1 F2	0.19	0.041	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	64		43 - 145	05/24/23 12:54	05/31/23 11:59	1
2-Fluorophenol (Surr)	55		31 - 166	05/24/23 12:54	05/31/23 11:59	1
Nitrobenzene-d5 (Surr)	61		37 - 147	05/24/23 12:54	05/31/23 11:59	1
Phenol-d5 (Surr)	58		30 - 153	05/24/23 12:54	05/31/23 11:59	1
Terphenyl-d14 (Surr)	69		42 - 157	05/24/23 12:54	05/31/23 11:59	1
2,4,6-Tribromophenol (Surr)	43		31 - 143	05/24/23 12:54	05/31/23 11:59	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.1	0.21	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Arsenic	13		0.53	0.18	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Barium	38		0.53	0.061	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Beryllium	0.71		0.21	0.050	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Boron	6.1		2.7	0.25	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Cadmium	0.14	B	0.11	0.019	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Calcium	52000		53	9.0	mg/Kg	☆	05/26/23 09:39	06/07/23 16:02	5
Chromium	9.5		0.53	0.26	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Cobalt	11		0.27	0.070	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Copper	18	B	0.53	0.15	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Iron	23000		11	5.5	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Lead	26		0.27	0.12	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Magnesium	27000		5.3	2.6	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Manganese	450		0.53	0.077	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Nickel	18		0.53	0.15	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Potassium	1200		27	9.4	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Selenium	0.35	J	0.53	0.31	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Silver	0.22	J	0.27	0.069	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Sodium	1400		53	7.9	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Thallium	<0.53		0.53	0.27	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Vanadium	15		0.27	0.063	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Zinc	62		1.1	0.47	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/26/23 16:41	05/30/23 20:48	1
Boron	0.16	J	0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:48	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Method: SW846 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		05/26/23 16:41	05/30/23 20:48	1
Chromium	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Cobalt	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Iron	<0.40		0.40	0.20	mg/L		05/26/23 16:41	05/30/23 20:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/26/23 16:41	05/30/23 20:48	1
Manganese	1.7		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Nickel	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Selenium	0.023	J B	0.050	0.020	mg/L		05/26/23 16:41	05/30/23 20:48	1
Silver	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Zinc	<0.50		0.50	0.020	mg/L		05/26/23 16:41	05/30/23 20:48	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.0		0.025	0.010	mg/L		05/26/23 16:43	06/01/23 20:12	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/26/23 16:41	06/06/23 20:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/26/23 16:41	06/06/23 20:58	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/31/23 10:05	06/01/23 10:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0090	mg/Kg	☆	06/01/23 14:00	06/02/23 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0		0.2	0.2	SU			05/26/23 19:11	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017	J	0.021	0.0092	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1,2,2-Tetrachloroethane	<0.0021	*3	0.0021	0.00068	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Xylenes, Total	<0.0042		0.0042	0.00068	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	*3 S1+	75 - 131	05/20/23 15:17	05/29/23 17:02	1
Dibromofluoromethane	105		75 - 126	05/20/23 15:17	05/29/23 17:02	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	05/20/23 15:17	05/29/23 17:02	1
Toluene-d8 (Surr)	119		75 - 124	05/20/23 15:17	05/29/23 17:02	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	05/24/23 12:54	05/31/23 13:08	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	05/24/23 12:54	05/31/23 13:08	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	05/24/23 12:54	05/31/23 13:08	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	05/24/23 12:54	05/31/23 13:08	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Phenol	<0.18		0.18	0.081	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		43 - 145	05/24/23 12:54	05/31/23 13:08	1
2-Fluorophenol (Surr)	51		31 - 166	05/24/23 12:54	05/31/23 13:08	1
Nitrobenzene-d5 (Surr)	57		37 - 147	05/24/23 12:54	05/31/23 13:08	1
Phenol-d5 (Surr)	54		30 - 153	05/24/23 12:54	05/31/23 13:08	1
Terphenyl-d14 (Surr)	66		42 - 157	05/24/23 12:54	05/31/23 13:08	1
2,4,6-Tribromophenol (Surr)	42		31 - 143	05/24/23 12:54	05/31/23 13:08	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.2	0.23	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Arsenic	13		0.58	0.20	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Barium	80		0.58	0.066	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Beryllium	0.66		0.23	0.054	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Boron	7.6		2.9	0.27	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Cadmium	0.17	B	0.12	0.021	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Calcium	47000		58	9.8	mg/Kg	☆	05/26/23 09:39	06/07/23 16:05	5
Chromium	9.8		0.58	0.29	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Cobalt	13		0.29	0.076	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Copper	20	B	0.58	0.16	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Iron	21000		12	6.0	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Lead	16		0.29	0.13	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Magnesium	23000		5.8	2.9	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Manganese	440		0.58	0.084	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Nickel	22		0.58	0.17	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Potassium	1300		29	10	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Selenium	0.39	J	0.58	0.34	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Silver	0.24	J	0.29	0.075	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Sodium	530		58	8.6	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Thallium	<0.58		0.58	0.29	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Vanadium	16		0.29	0.069	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Zinc	54		1.2	0.51	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90		0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/26/23 16:41	05/30/23 20:52	1
Boron	0.17	J	0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:52	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Method: SW846 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		05/26/23 16:41	05/30/23 20:52	1
Chromium	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Cobalt	0.033		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Iron	<0.40		0.40	0.20	mg/L		05/26/23 16:41	05/30/23 20:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/26/23 16:41	05/30/23 20:52	1
Manganese	7.0		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Nickel	0.018 J		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Selenium	0.025 J B		0.050	0.020	mg/L		05/26/23 16:41	05/30/23 20:52	1
Silver	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Zinc	0.022 J B		0.50	0.020	mg/L		05/26/23 16:41	05/30/23 20:52	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		05/26/23 16:43	06/01/23 20:16	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/26/23 16:41	06/06/23 21:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/26/23 16:41	06/06/23 21:00	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/31/23 10:05	06/01/23 10:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016 J		0.018	0.0095	mg/Kg	☆	06/01/23 14:00	06/02/23 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0		0.2	0.2	SU			05/26/23 19:14	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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
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.
S1-	Surrogate recovery exceeds control limits, low biased.

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-WO 19 - Palos Park

Job ID: 500-234079-1

GC/MS VOA

Prep Batch: 714877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	5035	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	5035	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	5035	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	5035	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	5035	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	5035	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	5035	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 715655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	8260B	714877
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	8260B	714877
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	8260B	714877
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	8260B	714877
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	8260B	714877
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	8260B	714877
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	8260B	714877
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	8260B	714877
MB 500-715655/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-715655/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-715655/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 715029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	3541	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	3541	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	3541	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	3541	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	3541	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	3541	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	3541	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	3541	
MB 500-715029/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-715029/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-234079-1 MS	3359V-04-B02 (0-6)	Total/NA	Solid	3541	
500-234079-1 MSD	3359V-04-B02 (0-6)	Total/NA	Solid	3541	

Analysis Batch: 715743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-715029/1-A	Method Blank	Total/NA	Solid	8270D	715029
LCS 500-715029/2-A	Lab Control Sample	Total/NA	Solid	8270D	715029

Analysis Batch: 715936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	8270D	715029
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	8270D	715029
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	8270D	715029
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	8270D	715029

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

GC/MS Semi VOA (Continued)

Analysis Batch: 715936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	8270D	715029
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	8270D	715029
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	8270D	715029
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	8270D	715029
500-234079-1 MS	3359V-04-B02 (0-6)	Total/NA	Solid	8270D	715029
500-234079-1 MSD	3359V-04-B02 (0-6)	Total/NA	Solid	8270D	715029

Metals

Leach Batch: 715305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	SPLP East	Solid	1312	
500-234079-2	3359V-04-B02 (6-11)	SPLP East	Solid	1312	
500-234079-4	3359V-04-B01 (0-6) DUP	SPLP East	Solid	1312	
500-234079-5	3359V-04-B01 (6-11)	SPLP East	Solid	1312	
500-234079-6	3359V-04-B01 (6-11) DUP	SPLP East	Solid	1312	
500-234079-7	3359V-05-B01 (0-5)	SPLP East	Solid	1312	
500-234079-8	3359V-01-B01 (0-2)	SPLP East	Solid	1312	
LB 500-715305/1-B	Method Blank	SPLP East	Solid	1312	
500-234079-8 MS	3359V-01-B01 (0-2)	SPLP East	Solid	1312	
500-234079-8 DU	3359V-01-B01 (0-2)	SPLP East	Solid	1312	

Leach Batch: 715317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	1311	
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	1311	
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	1311	
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	1311	
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	1311	
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	1311	
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	1311	
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	1311	
LB 500-715317/1-C	Method Blank	TCLP	Solid	1311	
LB 500-715317/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 715485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	3050B	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	3050B	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	3050B	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	3050B	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	3050B	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	3050B	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	3050B	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-715485/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-715485/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 715578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	3010A	715317

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Metals (Continued)

Prep Batch: 715578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	3010A	715317
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	3010A	715317
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	3010A	715317
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	3010A	715317
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	3010A	715317
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	3010A	715317
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	3010A	715317
LB 500-715317/1-C	Method Blank	TCLP	Solid	3010A	715317
LCS 500-715578/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 715582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	SPLP East	Solid	3010A	715305
500-234079-2	3359V-04-B02 (6-11)	SPLP East	Solid	3010A	715305
500-234079-4	3359V-04-B01 (0-6) DUP	SPLP East	Solid	3010A	715305
500-234079-5	3359V-04-B01 (6-11)	SPLP East	Solid	3010A	715305
500-234079-6	3359V-04-B01 (6-11) DUP	SPLP East	Solid	3010A	715305
500-234079-7	3359V-05-B01 (0-5)	SPLP East	Solid	3010A	715305
500-234079-8	3359V-01-B01 (0-2)	SPLP East	Solid	3010A	715305
LB 500-715305/1-B	Method Blank	SPLP East	Solid	3010A	715305
LCS 500-715582/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-234079-8 MS	3359V-01-B01 (0-2)	SPLP East	Solid	3010A	715305
500-234079-8 DU	3359V-01-B01 (0-2)	SPLP East	Solid	3010A	715305

Prep Batch: 716026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	7470A	715317
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	7470A	715317
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	7470A	715317
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	7470A	715317
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	7470A	715317
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	7470A	715317
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	7470A	715317
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	7470A	715317
LB 500-715317/1-F	Method Blank	TCLP	Solid	7470A	715317
MB 500-716026/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-716026/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 716049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	6010B	715578
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	6010B	715578
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	6010B	715578
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	6010B	715578
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	6010B	715578
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	6010B	715578
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	6010B	715578
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	6010B	715578
LB 500-715317/1-C	Method Blank	TCLP	Solid	6010B	715578
LCS 500-715578/2-A	Lab Control Sample	Total/NA	Solid	6010B	715578

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Metals

Analysis Batch: 716112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-715578/2-A	Lab Control Sample	Total/NA	Solid	6010B	715578

Prep Batch: 716246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	7471B	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	7471B	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	7471B	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	7471B	
MB 500-716246/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-716246/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 716247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	7471B	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	7471B	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	7471B	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-716247/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-716247/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 716328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	7470A	716026
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	7470A	716026
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	7470A	716026
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	7470A	716026
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	7470A	716026
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	7470A	716026
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	7470A	716026
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	7470A	716026
LB 500-715317/1-F	Method Blank	TCLP	Solid	7470A	716026
MB 500-716026/12-A	Method Blank	Total/NA	Solid	7470A	716026
LCS 500-716026/14-A	Lab Control Sample	Total/NA	Solid	7470A	716026

Analysis Batch: 716542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	SPLP East	Solid	6010B	715582
500-234079-2	3359V-04-B02 (6-11)	SPLP East	Solid	6010B	715582
500-234079-4	3359V-04-B01 (0-6) DUP	SPLP East	Solid	6010B	715582
500-234079-5	3359V-04-B01 (6-11)	SPLP East	Solid	6010B	715582
500-234079-6	3359V-04-B01 (6-11) DUP	SPLP East	Solid	6010B	715582
500-234079-7	3359V-05-B01 (0-5)	SPLP East	Solid	6010B	715582
500-234079-8	3359V-01-B01 (0-2)	SPLP East	Solid	6010B	715582
LB 500-715305/1-B	Method Blank	SPLP East	Solid	6010B	715582
LCS 500-715582/2-A	Lab Control Sample	Total/NA	Solid	6010B	715582
500-234079-8 MS	3359V-01-B01 (0-2)	SPLP East	Solid	6010B	715582
500-234079-8 DU	3359V-01-B01 (0-2)	SPLP East	Solid	6010B	715582

Analysis Batch: 716551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	7471B	716246

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Metals (Continued)

Analysis Batch: 716551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	7471B	716246
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	7471B	716246
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	7471B	716246
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	7471B	716247
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	7471B	716247
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	7471B	716247
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	7471B	716247
MB 500-716246/12-A	Method Blank	Total/NA	Solid	7471B	716246
MB 500-716247/12-A	Method Blank	Total/NA	Solid	7471B	716247
LCS 500-716246/13-A	Lab Control Sample	Total/NA	Solid	7471B	716246
LCS 500-716247/13-A	Lab Control Sample	Total/NA	Solid	7471B	716247

Analysis Batch: 717261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	6020B	715578
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	6020B	715578
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	6020B	715578
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	6020B	715578
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	6020B	715578
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	6020B	715578
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	6020B	715578
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	6020B	715578
LB 500-715317/1-C	Method Blank	TCLP	Solid	6020B	715578
LCS 500-715578/2-A	Lab Control Sample	Total/NA	Solid	6020B	715578

Analysis Batch: 717268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	6010B	715485
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	6010B	715485
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	6010B	715485
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	6010B	715485
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	6010B	715485
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	6010B	715485
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	6010B	715485
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	6010B	715485
MB 500-715485/1-A	Method Blank	Total/NA	Solid	6010B	715485
LCS 500-715485/2-A	Lab Control Sample	Total/NA	Solid	6010B	715485

Analysis Batch: 717495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	6010B	715485
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	6010B	715485
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	6010B	715485
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	6010B	715485
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	6010B	715485
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	6010B	715485

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

General Chemistry

Analysis Batch: 715315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	Moisture	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	Moisture	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	Moisture	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	Moisture	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	Moisture	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	Moisture	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	Moisture	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 715691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	9045D	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	9045D	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	9045D	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	9045D	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	9045D	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	9045D	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	9045D	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-715691/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-715691/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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)
500-234079-1	3359V-04-B02 (0-6)	129	106	122	116
500-234079-2	3359V-04-B02 (6-11)	147 *3 S1+	105	123	119
500-234079-3	3359V-04-B01 (0-6)	120	106	126	114
500-234079-4	3359V-04-B01 (0-6) DUP	123	106	125	115
500-234079-5	3359V-04-B01 (6-11)	124	107	126	104
500-234079-6	3359V-04-B01 (6-11) DUP	141 *3 S1+	105	124	132 S1+
500-234079-7	3359V-05-B01 (0-5)	124	103	123	132 S1+
500-234079-8	3359V-01-B01 (0-2)	113	107	126	114
LCS 500-715655/4	Lab Control Sample	124	96	106	121
LCSD 500-715655/5	Lab Control Sample Dup	125	98	108	119
MB 500-715655/7	Method Blank	120	100	107	117

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-234079-1	3359V-04-B02 (0-6)	64	55	61	58	69	43
500-234079-1 MS	3359V-04-B02 (0-6)	66	58	64	60	76	68
500-234079-1 MSD	3359V-04-B02 (0-6)	69	5 S1-	35 S1-	40	89	85
500-234079-2	3359V-04-B02 (6-11)	60	51	57	54	66	42
500-234079-3	3359V-04-B01 (0-6)	67	54	63	59	83	47
500-234079-4	3359V-04-B01 (0-6) DUP	64	56	60	60	73	47
500-234079-5	3359V-04-B01 (6-11)	66	56	63	64	80	59
500-234079-6	3359V-04-B01 (6-11) DUP	54	46	51	48	60	39
500-234079-7	3359V-05-B01 (0-5)	70	62	68	65	78	55
500-234079-8	3359V-01-B01 (0-2)	83	73	80	77	93	79
LCS 500-715029/2-A	Lab Control Sample	76	75	80	76	84	78
MB 500-715029/1-A	Method Blank	84	86	89	86	92	71

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: MB 500-715655/7
Matrix: Solid
Analysis Batch: 715655

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			05/29/23 11:19	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/29/23 11:19	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/29/23 11:19	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/29/23 11:19	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/29/23 11:19	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/29/23 11:19	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/29/23 11:19	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/29/23 11:19	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/29/23 11:19	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/29/23 11:19	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/29/23 11:19	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/29/23 11:19	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/29/23 11:19	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/29/23 11:19	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/29/23 11:19	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/29/23 11:19	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/29/23 11:19	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/29/23 11:19	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/29/23 11:19	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			05/29/23 11:19	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/29/23 11:19	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/29/23 11:19	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/29/23 11:19	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/29/23 11:19	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/29/23 11:19	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/29/23 11:19	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/29/23 11:19	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/29/23 11:19	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/29/23 11:19	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/29/23 11:19	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/29/23 11:19	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/29/23 11:19	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/29/23 11:19	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/29/23 11:19	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/29/23 11:19	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/29/23 11:19	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/29/23 11:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	120		75 - 131		05/29/23 11:19	1
Dibromofluoromethane	100		75 - 126		05/29/23 11:19	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		05/29/23 11:19	1
Toluene-d8 (Surr)	117		75 - 124		05/29/23 11:19	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715655/4
Matrix: Solid
Analysis Batch: 715655

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	0.0625		mg/Kg		125	40 - 150
Benzene	0.0500	0.0442		mg/Kg		88	70 - 125
Bromodichloromethane	0.0500	0.0479		mg/Kg		96	67 - 129
Bromoform	0.0500	0.0459		mg/Kg		92	68 - 136
Bromomethane	0.0500	0.0433		mg/Kg		87	70 - 130
2-Butanone (MEK)	0.0500	0.0522		mg/Kg		104	47 - 138
Carbon disulfide	0.0500	0.0446		mg/Kg		89	70 - 129
Carbon tetrachloride	0.0500	0.0455		mg/Kg		91	75 - 125
Chlorobenzene	0.0500	0.0447		mg/Kg		89	50 - 150
Chloroethane	0.0500	0.0500		mg/Kg		100	75 - 125
Chloroform	0.0500	0.0428		mg/Kg		86	57 - 135
Chloromethane	0.0500	0.0483		mg/Kg		97	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0432		mg/Kg		86	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0523		mg/Kg		105	70 - 125
Dibromochloromethane	0.0500	0.0490		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0484		mg/Kg		97	70 - 125
1,2-Dichloroethane	0.0500	0.0500		mg/Kg		100	70 - 130
1,1-Dichloroethene	0.0500	0.0440		mg/Kg		88	70 - 120
1,2-Dichloropropane	0.0500	0.0514		mg/Kg		103	70 - 125
Ethylbenzene	0.0500	0.0444		mg/Kg		89	61 - 136
2-Hexanone	0.0500	0.0589		mg/Kg		118	48 - 146
Methylene Chloride	0.0500	0.0444		mg/Kg		89	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0586		mg/Kg		117	50 - 148
Methyl tert-butyl ether	0.0500	0.0458		mg/Kg		92	50 - 140
Styrene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0481		mg/Kg		96	70 - 122
Tetrachloroethene	0.0500	0.0447		mg/Kg		89	70 - 124
Toluene	0.0500	0.0462		mg/Kg		92	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0424		mg/Kg		85	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0546		mg/Kg		109	70 - 125
1,1,1-Trichloroethane	0.0500	0.0479		mg/Kg		96	70 - 128
1,1,2-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 125
Trichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
Vinyl acetate	0.0500	0.0417		mg/Kg		83	40 - 153
Vinyl chloride	0.0500	0.0491		mg/Kg		98	70 - 125
Xylenes, Total	0.100	0.0935		mg/Kg		94	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	106		70 - 134
Toluene-d8 (Surr)	121		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCSD 500-715655/5
Matrix: Solid
Analysis Batch: 715655

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	0.0625		mg/Kg		125	40 - 150	0	30
Benzene	0.0500	0.0416		mg/Kg		83	70 - 125	6	30
Bromodichloromethane	0.0500	0.0454		mg/Kg		91	67 - 129	5	30
Bromoform	0.0500	0.0443		mg/Kg		89	68 - 136	4	30
Bromomethane	0.0500	0.0446		mg/Kg		89	70 - 130	3	30
2-Butanone (MEK)	0.0500	0.0517		mg/Kg		103	47 - 138	1	30
Carbon disulfide	0.0500	0.0427		mg/Kg		85	70 - 129	4	30
Carbon tetrachloride	0.0500	0.0432		mg/Kg		86	75 - 125	5	30
Chlorobenzene	0.0500	0.0437		mg/Kg		87	50 - 150	2	30
Chloroethane	0.0500	0.0515		mg/Kg		103	75 - 125	3	30
Chloroform	0.0500	0.0407		mg/Kg		81	57 - 135	5	30
Chloromethane	0.0500	0.0486		mg/Kg		97	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0415		mg/Kg		83	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0512		mg/Kg		102	70 - 125	2	30
Dibromochloromethane	0.0500	0.0486		mg/Kg		97	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0460		mg/Kg		92	70 - 125	5	30
1,2-Dichloroethane	0.0500	0.0478		mg/Kg		96	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0418		mg/Kg		84	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0493		mg/Kg		99	70 - 125	4	30
Ethylbenzene	0.0500	0.0434		mg/Kg		87	61 - 136	2	30
2-Hexanone	0.0500	0.0570		mg/Kg		114	48 - 146	3	30
Methylene Chloride	0.0500	0.0424		mg/Kg		85	70 - 126	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0573		mg/Kg		115	50 - 148	2	30
Methyl tert-butyl ether	0.0500	0.0441		mg/Kg		88	50 - 140	4	30
Styrene	0.0500	0.0429		mg/Kg		86	70 - 125	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0465		mg/Kg		93	70 - 122	3	30
Tetrachloroethene	0.0500	0.0436		mg/Kg		87	70 - 124	2	30
Toluene	0.0500	0.0451		mg/Kg		90	70 - 125	2	30
trans-1,2-Dichloroethene	0.0500	0.0398		mg/Kg		80	70 - 125	6	30
trans-1,3-Dichloropropene	0.0500	0.0511		mg/Kg		102	70 - 125	7	30
1,1,1-Trichloroethane	0.0500	0.0454		mg/Kg		91	70 - 128	5	30
1,1,2-Trichloroethane	0.0500	0.0465		mg/Kg		93	70 - 125	3	30
Trichloroethene	0.0500	0.0434		mg/Kg		87	70 - 125	4	30
Vinyl acetate	0.0500	0.0409		mg/Kg		82	40 - 153	2	30
Vinyl chloride	0.0500	0.0490		mg/Kg		98	70 - 125	0	30
Xylenes, Total	0.100	0.0906		mg/Kg		91	53 - 147	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	125		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	108		70 - 134
Toluene-d8 (Surr)	119		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: MB 500-715029/1-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715029

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/24/23 12:54	05/30/23 14:40	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: MB 500-715029/1-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715029

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Phenol	<0.17		0.17	0.074	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/24/23 12:54	05/30/23 14:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	84		43 - 145	05/24/23 12:54	05/30/23 14:40	1
2-Fluorophenol (Surr)	86		31 - 166	05/24/23 12:54	05/30/23 14:40	1
Nitrobenzene-d5 (Surr)	89		37 - 147	05/24/23 12:54	05/30/23 14:40	1
Phenol-d5 (Surr)	86		30 - 153	05/24/23 12:54	05/30/23 14:40	1
Terphenyl-d14 (Surr)	92		42 - 157	05/24/23 12:54	05/30/23 14:40	1
2,4,6-Tribromophenol (Surr)	71		31 - 143	05/24/23 12:54	05/30/23 14:40	1

Lab Sample ID: LCS 500-715029/2-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	3.33	2.62		mg/Kg		78	68 - 120
Anthracene	3.33	2.76		mg/Kg		83	70 - 114
Benzo[a]anthracene	3.33	2.84		mg/Kg		85	67 - 122
Benzo[a]pyrene	3.33	3.18		mg/Kg		95	65 - 133
Benzo[b]fluoranthene	3.33	2.92		mg/Kg		88	69 - 129
Benzo[g,h,i]perylene	3.33	2.79		mg/Kg		84	72 - 131
Benzo[k]fluoranthene	3.33	2.81		mg/Kg		84	68 - 127
Bis(2-chloroethoxy)methane	3.33	2.64		mg/Kg		79	60 - 112
Bis(2-chloroethyl)ether	3.33	2.46		mg/Kg		74	55 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.38		mg/Kg		101	72 - 131
4-Bromophenyl phenyl ether	3.33	2.64		mg/Kg		79	68 - 118
Butyl benzyl phthalate	3.33	3.35		mg/Kg		100	71 - 129
Carbazole	3.33	2.82		mg/Kg		85	65 - 142
4-Chloroaniline	3.33	1.91		mg/Kg		57	30 - 150
4-Chloro-3-methylphenol	3.33	2.83		mg/Kg		85	65 - 122
2-Chloronaphthalene	3.33	2.60		mg/Kg		78	69 - 114
2-Chlorophenol	3.33	2.45		mg/Kg		74	64 - 110

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715029/2-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorophenyl phenyl ether	3.33	2.57		mg/Kg		77	62 - 119
Chrysene	3.33	2.85		mg/Kg		85	63 - 120
Dibenz(a,h)anthracene	3.33	2.82		mg/Kg		85	64 - 131
Dibenzofuran	3.33	2.65		mg/Kg		80	66 - 115
1,2-Dichlorobenzene	3.33	2.26		mg/Kg		68	62 - 110
1,3-Dichlorobenzene	3.33	2.18		mg/Kg		65	65 - 124
1,4-Dichlorobenzene	3.33	2.23		mg/Kg		67	61 - 110
3,3'-Dichlorobenzidine	3.33	2.18		mg/Kg		66	35 - 128
2,4-Dichlorophenol	3.33	2.54		mg/Kg		76	58 - 120
Diethyl phthalate	3.33	2.79		mg/Kg		84	58 - 120
2,4-Dimethylphenol	3.33	2.41		mg/Kg		72	60 - 110
Dimethyl phthalate	3.33	2.71		mg/Kg		81	69 - 116
Di-n-butyl phthalate	3.33	2.89		mg/Kg		87	65 - 120
4,6-Dinitro-2-methylphenol	6.67	5.11		mg/Kg		77	10 - 110
2,4-Dinitrophenol	6.67	3.87		mg/Kg		58	10 - 100
2,4-Dinitrotoluene	3.33	2.85		mg/Kg		85	69 - 124
2,6-Dinitrotoluene	3.33	2.81		mg/Kg		84	70 - 123
Di-n-octyl phthalate	3.33	3.13		mg/Kg		94	68 - 134
Fluoranthene	3.33	2.69		mg/Kg		81	62 - 120
Fluorene	3.33	2.56		mg/Kg		77	62 - 120
Hexachlorobenzene	3.33	2.60		mg/Kg		78	63 - 124
Hexachlorobutadiene	3.33	2.38		mg/Kg		71	56 - 120
Hexachlorocyclopentadiene	3.33	1.13		mg/Kg		34	10 - 133
Hexachloroethane	3.33	2.39		mg/Kg		72	60 - 114
Indeno[1,2,3-cd]pyrene	3.33	2.75		mg/Kg		83	68 - 130
Isophorone	3.33	2.71		mg/Kg		81	55 - 110
2-Methylnaphthalene	3.33	2.48		mg/Kg		74	69 - 112
2-Methylphenol	3.33	2.54		mg/Kg		76	60 - 120
3 & 4 Methylphenol	3.33	2.59		mg/Kg		78	57 - 120
Naphthalene	3.33	2.35		mg/Kg		71	63 - 110
2-Nitroaniline	3.33	3.16		mg/Kg		95	57 - 124
3-Nitroaniline	3.33	2.32		mg/Kg		70	40 - 122
4-Nitroaniline	3.33	2.67		mg/Kg		80	60 - 160
Nitrobenzene	3.33	2.78		mg/Kg		83	60 - 116
2-Nitrophenol	3.33	2.59		mg/Kg		78	60 - 120
4-Nitrophenol	6.67	6.27		mg/Kg		94	30 - 122
N-Nitrosodi-n-propylamine	3.33	2.61		mg/Kg		78	56 - 118
N-Nitrosodiphenylamine	3.33	2.81		mg/Kg		84	65 - 112
2,2'-oxybis[1-chloropropane]	3.33	2.82		mg/Kg		84	40 - 124
Pentachlorophenol	6.67	5.06		mg/Kg		76	13 - 112
Phenanthrene	3.33	2.61		mg/Kg		78	62 - 120
Phenol	3.33	2.57		mg/Kg		77	56 - 122
Pyrene	3.33	2.89		mg/Kg		87	61 - 128
1,2,4-Trichlorobenzene	3.33	2.37		mg/Kg		71	66 - 117
2,4,5-Trichlorophenol	3.33	2.74		mg/Kg		82	50 - 120
2,4,6-Trichlorophenol	3.33	2.53		mg/Kg		76	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715029/2-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715029

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	76		43 - 145
2-Fluorophenol (Surr)	75		31 - 166
Nitrobenzene-d5 (Surr)	80		37 - 147
Phenol-d5 (Surr)	76		30 - 153
Terphenyl-d14 (Surr)	84		42 - 157
2,4,6-Tribromophenol (Surr)	78		31 - 143

Lab Sample ID: 500-234079-1 MS
Matrix: Solid
Analysis Batch: 715936

Client Sample ID: 3359V-04-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 715029

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	<0.037		3.81	2.64		mg/Kg	☼	69	65 - 124
Acenaphthylene	<0.037		3.81	2.68		mg/Kg	☼	70	68 - 120
Anthracene	<0.037		3.81	2.73		mg/Kg	☼	71	70 - 114
Benzo[a]anthracene	0.018	J	3.81	2.84		mg/Kg	☼	74	67 - 122
Benzo[a]pyrene	0.014	J	3.81	3.13		mg/Kg	☼	82	65 - 133
Benzo[b]fluoranthene	0.019	J	3.81	2.86		mg/Kg	☼	75	69 - 129
Benzo[g,h,i]perylene	0.014	J F1	3.81	2.65	F1	mg/Kg	☼	69	72 - 131
Benzo[k]fluoranthene	<0.037		3.81	2.72		mg/Kg	☼	71	68 - 127
Bis(2-chloroethoxy)methane	<0.19	F1	3.81	2.53		mg/Kg	☼	66	60 - 112
Bis(2-chloroethyl)ether	<0.19	F1 F2	3.81	2.46		mg/Kg	☼	65	55 - 111
Bis(2-ethylhexyl) phthalate	<0.19		3.81	3.07		mg/Kg	☼	81	72 - 131
4-Bromophenyl phenyl ether	<0.19		3.81	2.82		mg/Kg	☼	74	68 - 118
Butyl benzyl phthalate	<0.19		3.81	3.02		mg/Kg	☼	79	71 - 129
Carbazole	<0.19		3.81	2.68		mg/Kg	☼	70	65 - 142
4-Chloroaniline	<0.76		3.81	2.09		mg/Kg	☼	55	30 - 150
4-Chloro-3-methylphenol	<0.37		3.81	2.54		mg/Kg	☼	67	65 - 122
2-Chloronaphthalene	<0.19		3.81	2.70		mg/Kg	☼	71	69 - 114
2-Chlorophenol	<0.19	F1 F2	3.81	2.37	F1	mg/Kg	☼	62	64 - 110
4-Chlorophenyl phenyl ether	<0.19	F1	3.81	2.32	F1	mg/Kg	☼	61	62 - 119
Chrysene	0.012	J	3.81	2.85		mg/Kg	☼	74	63 - 120
Dibenz(a,h)anthracene	<0.037		3.81	2.94		mg/Kg	☼	77	64 - 131
Dibenzofuran	<0.19		3.81	2.51		mg/Kg	☼	66	66 - 115
1,2-Dichlorobenzene	<0.19	F1 F2	3.81	2.32	F1	mg/Kg	☼	61	62 - 110
1,3-Dichlorobenzene	<0.19	F1	3.81	2.28		mg/Kg	☼	60	60 - 110
1,4-Dichlorobenzene	<0.19	F1 F2	3.81	2.30	F1	mg/Kg	☼	60	61 - 110
3,3'-Dichlorobenzidine	<0.19	F2	3.81	2.53		mg/Kg	☼	66	35 - 128
2,4-Dichlorophenol	<0.37		3.81	2.59		mg/Kg	☼	68	58 - 120
Diethyl phthalate	<0.19		3.81	2.78		mg/Kg	☼	73	58 - 120
2,4-Dimethylphenol	<0.37		3.81	2.34		mg/Kg	☼	61	60 - 110
Dimethyl phthalate	<0.19		3.81	2.70		mg/Kg	☼	71	69 - 116
Di-n-butyl phthalate	<0.19		3.81	2.94		mg/Kg	☼	77	65 - 120
4,6-Dinitro-2-methylphenol	<0.76	F2	7.62	2.57		mg/Kg	☼	34	10 - 110
2,4-Dinitrophenol	<0.76	F1 F2	7.62	0.709	J F1	mg/Kg	☼	9	10 - 100
2,4-Dinitrotoluene	<0.19		3.81	2.83		mg/Kg	☼	74	69 - 124
2,6-Dinitrotoluene	<0.19		3.81	2.67		mg/Kg	☼	70	70 - 123
Di-n-octyl phthalate	<0.19		3.81	3.03		mg/Kg	☼	80	68 - 134

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: 500-234079-1 MS

Client Sample ID: 3359V-04-B02 (0-6)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 715936

Prep Batch: 715029

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Fluoranthene	0.019	J	3.81	2.75		mg/Kg	☼	72	62 - 120	
Fluorene	<0.037	F1	3.81	2.24	F1	mg/Kg	☼	59	62 - 120	
Hexachlorobenzene	<0.076		3.81	2.76		mg/Kg	☼	72	63 - 124	
Hexachlorobutadiene	<0.19	F1 F2	3.81	2.51		mg/Kg	☼	66	56 - 120	
Hexachlorocyclopentadiene	<0.76	F2	3.81	1.25		mg/Kg	☼	33	10 - 133	
Hexachloroethane	<0.19	F1	3.81	2.27		mg/Kg	☼	60	60 - 114	
Indeno[1,2,3-cd]pyrene	0.024	J	3.81	3.11		mg/Kg	☼	81	68 - 130	
Isophorone	<0.19		3.81	2.42		mg/Kg	☼	64	55 - 110	
2-Methylnaphthalene	<0.076	F1	3.81	2.55	F1	mg/Kg	☼	67	69 - 112	
2-Methylphenol	<0.19	F1	3.81	2.39		mg/Kg	☼	63	60 - 120	
3 & 4 Methylphenol	<0.19		3.81	2.46		mg/Kg	☼	65	57 - 120	
Naphthalene	<0.037	F1 F2	3.81	2.50		mg/Kg	☼	66	63 - 110	
2-Nitroaniline	<0.19		3.81	2.82		mg/Kg	☼	74	57 - 124	
3-Nitroaniline	<0.37		3.81	2.37		mg/Kg	☼	62	40 - 122	
4-Nitroaniline	<0.37	F2	3.81	2.38		mg/Kg	☼	62	60 - 160	
Nitrobenzene	<0.037	F1 F2	3.81	2.58		mg/Kg	☼	68	60 - 116	
2-Nitrophenol	<0.37	F1 F2	3.81	2.30		mg/Kg	☼	60	60 - 120	
4-Nitrophenol	<0.76		7.62	4.90		mg/Kg	☼	64	30 - 122	
N-Nitrosodi-n-propylamine	<0.076	F1	3.81	2.47		mg/Kg	☼	65	56 - 118	
N-Nitrosodiphenylamine	<0.19		3.81	2.74		mg/Kg	☼	72	65 - 112	
2,2'-oxybis[1-chloropropane]	<0.19	F1 F2	3.81	2.58		mg/Kg	☼	68	40 - 124	
Pentachlorophenol	<0.76	F2	7.62	3.18		mg/Kg	☼	42	13 - 112	
Phenanthrene	0.0072	J	3.81	2.65		mg/Kg	☼	69	62 - 120	
Phenol	<0.19	F1 F2	3.81	2.37		mg/Kg	☼	62	56 - 122	
Pyrene	0.017	J	3.81	2.90		mg/Kg	☼	76	61 - 128	
1,2,4-Trichlorobenzene	<0.19	F1 F2	3.81	2.50		mg/Kg	☼	66	66 - 117	
2,4,5-Trichlorophenol	<0.37		3.81	2.54		mg/Kg	☼	67	50 - 120	
2,4,6-Trichlorophenol	<0.37		3.81	2.53		mg/Kg	☼	66	57 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	66		43 - 145
2-Fluorophenol (Surr)	58		31 - 166
Nitrobenzene-d5 (Surr)	64		37 - 147
Phenol-d5 (Surr)	60		30 - 153
Terphenyl-d14 (Surr)	76		42 - 157
2,4,6-Tribromophenol (Surr)	68		31 - 143

Lab Sample ID: 500-234079-1 MSD

Client Sample ID: 3359V-04-B02 (0-6)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 715936

Prep Batch: 715029

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier		Result	Qualifier					Limits	RPD
Acenaphthene	<0.037		3.87	2.88		mg/Kg	☼	74	65 - 124	9	30
Acenaphthylene	<0.037		3.87	2.88		mg/Kg	☼	74	68 - 120	7	30
Anthracene	<0.037		3.87	3.16		mg/Kg	☼	82	70 - 114	15	30
Benzo[a]anthracene	0.018	J	3.87	3.40		mg/Kg	☼	87	67 - 122	18	30
Benzo[a]pyrene	0.014	J	3.87	3.77		mg/Kg	☼	97	65 - 133	18	30
Benzo[b]fluoranthene	0.019	J	3.87	3.42		mg/Kg	☼	88	69 - 129	18	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: 500-234079-1 MSD

Client Sample ID: 3359V-04-B02 (0-6)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 715936

Prep Batch: 715029

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
Benzo[g,h,i]perylene	0.014	J F1	3.87	3.36		mg/Kg	☼	86	72 - 131	23	30
Benzo[k]fluoranthene	<0.037		3.87	3.28		mg/Kg	☼	85	68 - 127	19	30
Bis(2-chloroethoxy)methane	<0.19	F1	3.87	2.04	F1	mg/Kg	☼	53	60 - 112	21	30
Bis(2-chloroethyl)ether	<0.19	F1 F2	3.87	0.337	F1 F2	mg/Kg	☼	9	55 - 111	152	30
Bis(2-ethylhexyl) phthalate	<0.19		3.87	3.72		mg/Kg	☼	96	72 - 131	19	30
4-Bromophenyl phenyl ether	<0.19		3.87	3.30		mg/Kg	☼	85	68 - 118	16	30
Butyl benzyl phthalate	<0.19		3.87	3.70		mg/Kg	☼	96	71 - 129	20	30
Carbazole	<0.19		3.87	3.21		mg/Kg	☼	83	65 - 142	18	30
4-Chloroaniline	<0.76		3.87	2.65		mg/Kg	☼	68	30 - 150	23	30
4-Chloro-3-methylphenol	<0.37		3.87	3.06		mg/Kg	☼	79	65 - 122	18	30
2-Chloronaphthalene	<0.19		3.87	2.76		mg/Kg	☼	71	69 - 114	2	30
2-Chlorophenol	<0.19	F1 F2	3.87	0.751	F1 F2	mg/Kg	☼	19	64 - 110	104	30
4-Chlorophenyl phenyl ether	<0.19	F1	3.87	2.56		mg/Kg	☼	66	62 - 119	10	30
Chrysene	0.012	J	3.87	3.42		mg/Kg	☼	88	63 - 120	18	30
Dibenz(a,h)anthracene	<0.037		3.87	3.57		mg/Kg	☼	92	64 - 131	19	30
Dibenzofuran	<0.19		3.87	2.79		mg/Kg	☼	72	66 - 115	10	30
1,2-Dichlorobenzene	<0.19	F1 F2	3.87	0.120	J F1 F2	mg/Kg	☼	3	62 - 110	180	30
1,3-Dichlorobenzene	<0.19	F1	3.87	<0.19	F1	mg/Kg	☼	0	60 - 110	NC	30
1,4-Dichlorobenzene	<0.19	F1 F2	3.87	0.0493	J F1 F2	mg/Kg	☼	1	61 - 110	192	30
3,3'-Dichlorobenzidine	<0.19	F2	3.87	3.73	F2	mg/Kg	☼	96	35 - 128	38	30
2,4-Dichlorophenol	<0.37		3.87	2.55		mg/Kg	☼	66	58 - 120	1	30
Diethyl phthalate	<0.19		3.87	3.35		mg/Kg	☼	87	58 - 120	19	30
2,4-Dimethylphenol	<0.37		3.87	2.35		mg/Kg	☼	61	60 - 110	0	30
Dimethyl phthalate	<0.19		3.87	3.22		mg/Kg	☼	83	69 - 116	18	30
Di-n-butyl phthalate	<0.19		3.87	3.50		mg/Kg	☼	91	65 - 120	17	30
4,6-Dinitro-2-methylphenol	<0.76	F2	7.74	4.38	F2	mg/Kg	☼	57	10 - 110	52	30
2,4-Dinitrophenol	<0.76	F1 F2	7.74	1.17	F2	mg/Kg	☼	15	10 - 100	49	30
2,4-Dinitrotoluene	<0.19		3.87	3.45		mg/Kg	☼	89	69 - 124	20	30
2,6-Dinitrotoluene	<0.19		3.87	3.30		mg/Kg	☼	85	70 - 123	21	30
Di-n-octyl phthalate	<0.19		3.87	3.79		mg/Kg	☼	98	68 - 134	22	30
Fluoranthene	0.019	J	3.87	3.25		mg/Kg	☼	84	62 - 120	17	30
Fluorene	<0.037	F1	3.87	2.49		mg/Kg	☼	64	62 - 120	11	30
Hexachlorobenzene	<0.076		3.87	3.27		mg/Kg	☼	85	63 - 124	17	30
Hexachlorobutadiene	<0.19	F1 F2	3.87	0.767	F1 F2	mg/Kg	☼	20	56 - 120	106	30
Hexachlorocyclopentadiene	<0.76	F2	3.87	0.614	J F2	mg/Kg	☼	16	10 - 133	68	30
Hexachloroethane	<0.19	F1	3.87	<0.19	F1	mg/Kg	☼	0	60 - 114	NC	30
Indeno[1,2,3-cd]pyrene	0.024	J	3.87	3.86		mg/Kg	☼	99	68 - 130	22	30
Isophorone	<0.19		3.87	2.48		mg/Kg	☼	64	55 - 110	2	30
2-Methylnaphthalene	<0.076	F1	3.87	2.34	F1	mg/Kg	☼	61	69 - 112	9	30
2-Methylphenol	<0.19	F1	3.87	1.88	F1	mg/Kg	☼	49	60 - 120	24	30
3 & 4 Methylphenol	<0.19		3.87	2.38		mg/Kg	☼	62	57 - 120	3	30
Naphthalene	<0.037	F1 F2	3.87	1.50	F1 F2	mg/Kg	☼	39	63 - 110	50	30
2-Nitroaniline	<0.19		3.87	3.38		mg/Kg	☼	87	57 - 124	18	30
3-Nitroaniline	<0.37		3.87	3.21		mg/Kg	☼	83	40 - 122	30	30
4-Nitroaniline	<0.37	F2	3.87	3.32	F2	mg/Kg	☼	86	60 - 160	33	30
Nitrobenzene	<0.037	F1 F2	3.87	1.40	F1 F2	mg/Kg	☼	36	60 - 116	59	30
2-Nitrophenol	<0.37	F1 F2	3.87	1.68	F1 F2	mg/Kg	☼	43	60 - 120	31	30
4-Nitrophenol	<0.76		7.74	6.15		mg/Kg	☼	80	30 - 122	23	30
N-Nitrosodi-n-propylamine	<0.076	F1	3.87	2.11	F1	mg/Kg	☼	54	56 - 118	16	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: 500-234079-1 MSD

Client Sample ID: 3359V-04-B02 (0-6)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 715936

Prep Batch: 715029

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
N-Nitrosodiphenylamine	<0.19		3.87	3.21		mg/Kg	☼	83	65 - 112	16	30	
2,2'-oxybis[1-chloropropane]	<0.19	F1 F2	3.87	0.562	F1 F2	mg/Kg	☼	15	40 - 124	128	30	
Pentachlorophenol	<0.76	F2	7.74	4.99	F2	mg/Kg	☼	65	13 - 112	44	30	
Phenanthrene	0.0072	J	3.87	3.09		mg/Kg	☼	80	62 - 120	15	30	
Phenol	<0.19	F1 F2	3.87	1.53	F1 F2	mg/Kg	☼	40	56 - 122	43	30	
Pyrene	0.017	J	3.87	3.33		mg/Kg	☼	86	61 - 128	14	30	
1,2,4-Trichlorobenzene	<0.19	F1 F2	3.87	1.27	F1 F2	mg/Kg	☼	33	66 - 117	65	30	
2,4,5-Trichlorophenol	<0.37		3.87	3.03		mg/Kg	☼	78	50 - 120	17	30	
2,4,6-Trichlorophenol	<0.37		3.87	2.99		mg/Kg	☼	77	57 - 120	17	30	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	69		43 - 145
2-Fluorophenol (Surr)	5	S1-	31 - 166
Nitrobenzene-d5 (Surr)	35	S1-	37 - 147
Phenol-d5 (Surr)	40		30 - 153
Terphenyl-d14 (Surr)	89		42 - 157
2,4,6-Tribromophenol (Surr)	85		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-715485/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 717268

Prep Batch: 715485

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Barium	<1.0		1.0	0.11	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Boron	<5.0		5.0	0.47	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Cadmium	0.0718	J	0.20	0.036	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Calcium	<20		20	3.4	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Copper	0.316	J	1.0	0.28	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Iron	<20		20	10	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Lead	<0.50		0.50	0.23	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Magnesium	<10		10	5.0	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Potassium	<50		50	18	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Silver	<0.50		0.50	0.13	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Sodium	<100		100	15	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/26/23 09:39	06/06/23 15:52	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715485/2-A
Matrix: Solid
Analysis Batch: 717268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	49.5		mg/Kg		99	80 - 120
Arsenic	10.0	9.06		mg/Kg		91	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.74		mg/Kg		95	80 - 120
Boron	100	89.2		mg/Kg		89	80 - 120
Cadmium	5.00	4.90		mg/Kg		98	80 - 120
Calcium	1000	862		mg/Kg		86	80 - 120
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	25.0	25.2		mg/Kg		101	80 - 120
Iron	100	91.5		mg/Kg		91	80 - 120
Lead	10.0	9.57		mg/Kg		96	80 - 120
Magnesium	1000	911		mg/Kg		91	80 - 120
Manganese	50.0	44.7		mg/Kg		89	80 - 120
Nickel	50.0	48.7		mg/Kg		97	80 - 120
Potassium	1000	1030		mg/Kg		103	80 - 120
Selenium	10.0	8.57		mg/Kg		86	80 - 120
Silver	5.00	4.54		mg/Kg		91	80 - 120
Sodium	1000	1050		mg/Kg		105	80 - 120
Thallium	10.0	9.37		mg/Kg		94	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120
Zinc	50.0	45.5		mg/Kg		91	80 - 120

Lab Sample ID: LCS 500-715578/2-A
Matrix: Solid
Analysis Batch: 716049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.500		mg/L		100	80 - 120
Beryllium	0.0500	0.0516		mg/L		103	80 - 120
Boron	1.00	0.932		mg/L		93	80 - 120
Cadmium	0.0500	0.0528		mg/L		106	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.521		mg/L		104	80 - 120
Lead	0.100	0.0920		mg/L		92	80 - 120
Manganese	0.500	0.495		mg/L		99	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.111		mg/L		111	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Zinc	0.500	0.597		mg/L		119	80 - 120

Lab Sample ID: LCS 500-715578/2-A
Matrix: Solid
Analysis Batch: 716112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.04		mg/L		104	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715582/2-A
Matrix: Solid
Analysis Batch: 716542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.475		mg/L		95	80 - 120

Lab Sample ID: LB 500-715317/1-C
Matrix: Solid
Analysis Batch: 716049

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 715578

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/26/23 16:41	05/30/23 20:42	1
Boron	<0.50		0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/26/23 16:41	05/30/23 20:42	1
Chromium	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Cobalt	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Iron	<0.40		0.40	0.20	mg/L		05/26/23 16:41	05/30/23 20:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/26/23 16:41	05/30/23 20:42	1
Manganese	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Nickel	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Selenium	0.0283	J	0.050	0.020	mg/L		05/26/23 16:41	05/30/23 20:42	1
Silver	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Zinc	0.0313	J	0.50	0.020	mg/L		05/26/23 16:41	05/30/23 20:42	1

Lab Sample ID: LB 500-715305/1-B
Matrix: Solid
Analysis Batch: 716542

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 715582

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		05/26/23 16:43	06/01/23 20:05	1

Lab Sample ID: 500-234079-8 MS
Matrix: Solid
Analysis Batch: 716542

Client Sample ID: 3359V-01-B01 (0-2)
Prep Type: SPLP East
Prep Batch: 715582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.0		0.500	1.55		mg/L		110	75 - 125

Lab Sample ID: 500-234079-8 DU
Matrix: Solid
Analysis Batch: 716542

Client Sample ID: 3359V-01-B01 (0-2)
Prep Type: SPLP East
Prep Batch: 715582

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	1.0		1.02		mg/L		2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 500-715578/2-A
Matrix: Solid
Analysis Batch: 717261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	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-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715578/2-A
Matrix: Solid
Analysis Batch: 717261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.0948		mg/L		95	80 - 120

Lab Sample ID: LB 500-715317/1-C
Matrix: Solid
Analysis Batch: 717261

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 715578

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/26/23 16:41	06/06/23 20:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/26/23 16:41	06/06/23 20:54	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-716026/12-A
Matrix: Solid
Analysis Batch: 716328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/31/23 10:05	06/01/23 09:49	1

Lab Sample ID: LCS 500-716026/14-A
Matrix: Solid
Analysis Batch: 716328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00194		mg/L		98	80 - 120

Lab Sample ID: LB 500-715317/1-F
Matrix: Solid
Analysis Batch: 716328

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 716026

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/31/23 10:05	06/01/23 09:56	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-716246/12-A
Matrix: Solid
Analysis Batch: 716551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		06/01/23 14:00	06/02/23 08:17	1

Lab Sample ID: LCS 500-716246/13-A
Matrix: Solid
Analysis Batch: 716551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.166		mg/Kg		101	80 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: MB 500-716247/12-A
Matrix: Solid
Analysis Batch: 716551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		06/01/23 14:00	06/02/23 09:12	1

Lab Sample ID: LCS 500-716247/13-A
Matrix: Solid
Analysis Batch: 716551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.167		mg/Kg		101	80 - 120



Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:12
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 20:48
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 20:58
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:00
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:11
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 16:37
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 11:59
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:24
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:02
Total/NA	Prep	7471B			716246	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:04

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:16
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 20:52
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:00

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:02
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:14
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 17:02
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 13:08
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:34
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:05
Total/NA	Prep	7471B			716246	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:06

Client Sample ID: 3359V-04-B01 (0-6)

Lab Sample ID: 500-234079-3

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 20:55
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:02
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:04
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:16
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B01 (0-6)

Lab Sample ID: 500-234079-3

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 17:26
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 13:36
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:38
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:09
Total/NA	Prep	7471B			716246	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:08

Client Sample ID: 3359V-04-B01 (0-6) DUP

Lab Sample ID: 500-234079-4

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:19
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 20:58
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:04
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:06
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:19
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B01 (0-6) DUP

Lab Sample ID: 500-234079-4

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 17:50
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 13:57
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:41
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:12

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B01 (0-6) DUP

Lab Sample ID: 500-234079-4

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			716246	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:10

Client Sample ID: 3359V-04-B01 (6-11)

Lab Sample ID: 500-234079-5

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:22
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 21:01
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:06
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:09
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:21
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B01 (6-11)

Lab Sample ID: 500-234079-5

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 18:15
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 14:19
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:45
Total/NA	Prep	7471B			716247	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:22

Client Sample ID: 3359V-04-B01 (6-11) DUP

Lab Sample ID: 500-234079-6

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:26

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B01 (6-11) DUP

Lab Sample ID: 500-234079-6

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 21:05
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:08
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:11
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:24
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B01 (6-11) DUP

Lab Sample ID: 500-234079-6

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 18:39
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 14:40
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:48
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:16
Total/NA	Prep	7471B			716247	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:24

Client Sample ID: 3359V-05-B01 (0-5)

Lab Sample ID: 500-234079-7

Date Collected: 05/19/23 11:40

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:29
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 21:08
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:10
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:13

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-05-B01 (0-5)

Lab Sample ID: 500-234079-7

Date Collected: 05/19/23 11:40

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:26
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-05-B01 (0-5)

Lab Sample ID: 500-234079-7

Date Collected: 05/19/23 11:40

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 19:04
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 15:02
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:52
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:19
Total/NA	Prep	7471B			716247	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:25

Client Sample ID: 3359V-01-B01 (0-2)

Lab Sample ID: 500-234079-8

Date Collected: 05/19/23 12:00

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:40
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 21:11
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:12
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:15
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:29
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-01-B01 (0-2)

Lab Sample ID: 500-234079-8

Date Collected: 05/19/23 12:00

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 82.8

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 19:29
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 16:06
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:55
Total/NA	Prep	7471B			716247	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:27

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET 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-WO 19 - Palos Park

Job ID: 500-234079-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 641747



Address _____

Regulatory Program: DW NPDES RCRA Other:

500-234079 COC
 TAL-8210

Client Contact		Project Manager: D. Tiebout		Site Contact: T. Trujnar		Date: 5-19-23		COC No: _____							
Company Name: WSP		Tel/Email: _____		Lab Contact: _____		Carrier: _____		_____ of _____ COCs							
Address: 30 N LaSalle		Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day													
City/State/Zip: Chicago IL															
Phone: _____		Project Name: IDOT WSP11 W019 - Palos Park		Site: 31403035.019		P O #: _____		For Lab Use Only Walk-in Client: _____ Lab Sampling: _____ Job / SDG No: 500-234079							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PH	% Solids	VOCs	SVOCS	Total Metals	TCLP	Sample Specific Notes
1	3359V-04-Boz (0-6)	5-19-23	1020	C	S	2			X	X	X	X	X	X	
2	3359V-04-Boz (6-11)	5-19-23	1030	C	S	2			X	X	X	X	X	X	
3	3359V-04-Boz (0-6)	5-19-23	1110	C	S	2			X	X	X	X	X	X	
4	3359V-04-Boz (0-6) Dup	5-19-23	1110	C	S	2			X	X	X	X	X	X	
5	3359V-04-Boz (6-11)	5-19-23	1120	C	S	2			X	X	X	X	X	X	
6	3359V-04-Boz (6-11) Dup	5-19-23	1120	C	S	2			X	X	X	X	X	X	
7	3359V-05-Boz (0-5)	5-19-23	1140	C	S	2			X	X	X	X	X	X	
8	3359V-01-Boz (0-2)	5-19-23	1200	C	S	2			X	X	X	X	X	X	
T. Trujnar															
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: * SPLP analysis based on TCLP results															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd: 6.1		Corr'd: 6.0		Therm ID No							
Relinquished by: [Signature]		Company: WSP		Date/Time: 5-19-23 1510		Received by: [Signature]		Company: EETA							
Relinquished by:		Company:		Date/Time:		Received by:		Company:							
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:							

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-234079-1

Login Number: 234079

List Number: 1

Creator: Berg, Nicole M

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	6.1-6.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1587 (123rd Street) Office Phone Number, if available: _____

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

12300-12405 S. Hobart Street (ISGS #3359V-6)

City: Palos Park State: IL Zip Code: 60464

County: Cook Township: Palos

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

Latitude: 41.6667 Longitude: - 87.8482
(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.): 2

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):

Location 359V-04-B02 was sampled within the construction zone adjacent to ISGS #3359V-6 (Residences). Refer to PSI Report for ISGS #3359V-6 (Residences) including Table 4-3, and Figure 4-1.

- 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 J226836-1.

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.

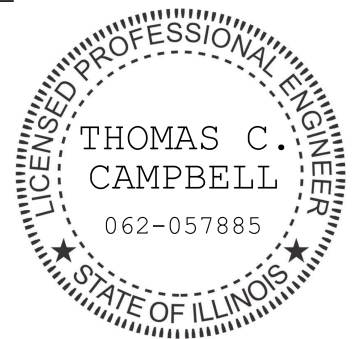
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

07/10/2023
Date:



Expires: 11/30/2023

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



Analytical Data Summary

PTB #196-002; IDOT Job #D-91-441-20; Work Order 19 - IDOT Project # D-91-080-16

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.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

PTB #196-002; IDOT Job #D-91-441-20; Work Order 19 - IDOT Project # D-91-080-16

CONTAMINANTS OF CONCERN

SITE	ISGS #3359V-4 (Mill Creek)		Comparison Criteria					
	3359V-04-B02		MACs			TACO		
BORING	3359V-04-B02		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	3359V-04-B02 (0-6)	3359V-04-B02 (6-11)						
MATRIX	Soil	Soil						
DEPTH (feet)	0-6	6-11						
pH	8.0	8.0						
PID (meter units)	--	--						
VOCs (mg/kg)								
Acetone	0.020	0.017 J+	25	--	--	70,000	100,000	--
SVOCs (mg/kg)								
2-Methylnaphthalene	ND UJ	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	--	--	0.25	--	--	--
Anthracene	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.018 J	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.014 J	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.019 J	ND U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.014 J	ND U	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	9	--	8.1	9	1,700	--
Carbazole	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.012 J	ND U	88	--	11	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	0.09	0.42	1	0.42	17	--
Dibenzofuran	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.019 J	ND U	3,100	--	28	3,100	82,000	--
Fluorene	ND UJ	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.024 J	ND U	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND UJ	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	0.0072 J	ND U	--	--	15	--	--	--
Pyrene	0.017 J	ND U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)								
Antimony	1.2	1.0 J	5	--	--	31	82	--
Arsenic	13 †	13 †	11.3	13	--	13	61	--
Barium	38	80	1,500	--	--	5,500	14,000	--
Beryllium	0.71	0.66	22	--	--	160	410	--
Boron	6.1	7.6	40	--	--	16,000	41,000	--
Calcium	52,000	47,000	--	--	--	--	--	--
Chromium	9.5	9.8	21	--	--	230	690	--
Cobalt	11	13	20	--	--	4,700	12,000	--
Copper	18	20	2,900	--	--	2,900	8,200	--
Iron	23,000 †m	21,000 †m	15,000	15,900	--	--	--	--
Lead	26	16	107	--	--	400	700	--
Magnesium	27,000	23,000	325,000	--	--	--	730,000	--
Manganese	450	440	630	636	--	1,600	4,100	--
Mercury	0.029	0.016 J	0.89	--	--	10	0.1	--
Nickel	18	22	100	--	--	1,600	4,100	--
Potassium	1,200	1,300	--	--	--	--	--	--
Selenium	0.35 J	0.39 J	1.3	--	--	390	1,000	--
Silver	0.22 J	0.24 J	4.4	--	--	390	1,000	--
Sodium	1,400	530	--	--	--	--	--	--
Vanadium	15	16	550	--	--	550	1,400	--
Zinc	62	54	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	0.25 J	0.90	--	--	--	--	--	2
Boron	0.16 J	0.17 J	--	--	--	--	--	2
Cadmium	ND U	ND U	--	--	--	--	--	0.005
Cobalt	ND U	0.033	--	--	--	--	--	1
Iron	ND U	ND U	--	--	--	--	--	5
Manganese	1.7 L	7.0 L	--	--	--	--	--	0.15
Nickel	ND U	0.018 J	--	--	--	--	--	0.1
SPLP Metals (mg/L)								
Manganese	3.0 L	1.1 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Generated 6/8/2023 12:51:08 PM

JOB DESCRIPTION

IDOT - 196-002-WO 19 - Palos Park

JOB NUMBER

500-234079-1

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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6/8/2023 12:51:08 PM

Authorized for release by
Jim Knapp, Project Manager II
Jim.Knapp@et.eurofinsus.com
(630)758-0262



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Job ID: 500-234079-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-234079-1

Receipt

The samples were received on 5/19/2023 3:10 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 6.0° C.

GC/MS VOA

Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: 3359V-04-B02 (6-11) (500-234079-2) and 3359V-04-B01 (6-11) DUP (500-234079-6). 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: Surrogate 4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) recovery for the following samples were outside the upper control limit: 3359V-04-B02 (6-11) (500-234079-2), 3359V-04-B01 (6-11) DUP (500-234079-6) and 3359V-05-B01 (0-5) (500-234079-7). 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 500-715936 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol. 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 500-715936 was outside the method criteria for the following analyte(s): 3,3'-Dichlorobenzidine. 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 and one acid surrogate outside acceptance limits: (500-234079-E-1-C MSD). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

Methods 6020A, 6020B:

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-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020		0.018	0.0078	mg/Kg	1	✳	8260B	Total/NA
Benzo[a]anthracene	0.018	J	0.037	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.037	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.019	J	0.037	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J F1	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.012	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.019	J	0.037	0.0070	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.037	0.0097	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.0072	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.017	J	0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	1.2		1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	13		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	38		0.53	0.061	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.71		0.21	0.050	mg/Kg	1	✳	6010B	Total/NA
Boron	6.1		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.14	B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	52000		53	9.0	mg/Kg	5	✳	6010B	Total/NA
Chromium	9.5		0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.27	0.070	mg/Kg	1	✳	6010B	Total/NA
Copper	18	B	0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		11	5.5	mg/Kg	1	✳	6010B	Total/NA
Lead	26		0.27	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000		5.3	2.6	mg/Kg	1	✳	6010B	Total/NA
Manganese	450		0.53	0.077	mg/Kg	1	✳	6010B	Total/NA
Nickel	18		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	1200		27	9.4	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.35	J	0.53	0.31	mg/Kg	1	✳	6010B	Total/NA
Silver	0.22	J	0.27	0.069	mg/Kg	1	✳	6010B	Total/NA
Sodium	1400		53	7.9	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.27	0.063	mg/Kg	1	✳	6010B	Total/NA
Zinc	62		1.1	0.47	mg/Kg	1	✳	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.023	J B	0.050	0.020	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0090	mg/Kg	1	✳	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017	J	0.021	0.0092	mg/Kg	1	✳	8260B	Total/NA
Antimony	1.0	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	13		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	80		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.66		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	7.6		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.17	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	47000		58	9.8	mg/Kg	5	✳	6010B	Total/NA
Chromium	9.8		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.

Job ID: 500-234079-1

Project/Site: IDOT - 196-002-WO 19 - Palos Park

Client Sample ID: 3359V-04-B02 (6-11) (Continued)

Lab Sample ID: 500-234079-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cobalt	13		0.29	0.076	mg/Kg	1	✳		6010B	Total/NA
Copper	20	B	0.58	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	21000		12	6.0	mg/Kg	1	✳		6010B	Total/NA
Lead	16		0.29	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	23000		5.8	2.9	mg/Kg	1	✳		6010B	Total/NA
Manganese	440		0.58	0.084	mg/Kg	1	✳		6010B	Total/NA
Nickel	22		0.58	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	1300		29	10	mg/Kg	1	✳		6010B	Total/NA
Selenium	0.39	J	0.58	0.34	mg/Kg	1	✳		6010B	Total/NA
Silver	0.24	J	0.29	0.075	mg/Kg	1	✳		6010B	Total/NA
Sodium	530		58	8.6	mg/Kg	1	✳		6010B	Total/NA
Vanadium	16		0.29	0.069	mg/Kg	1	✳		6010B	Total/NA
Zinc	54		1.2	0.51	mg/Kg	1	✳		6010B	Total/NA
Barium	0.90		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.17	J	0.50	0.050	mg/L	1			6010B	TCLP
Cobalt	0.033		0.025	0.010	mg/L	1			6010B	TCLP
Manganese	7.0		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1			6010B	TCLP
Selenium	0.025	J B	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.022	J B	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.016	J	0.018	0.0095	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-WO 19 - Palos Park

Job ID: 500-234079-1

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

EET 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-WO 19 - Palos Park

Job ID: 500-234079-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
500-234079-1	3359V-04-B02 (0-6)	Solid	05/19/23 10:20	05/19/23 15:10
500-234079-2	3359V-04-B02 (6-11)	Solid	05/19/23 10:30	05/19/23 15:10

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.018	0.0078	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	05/20/23 15:17	05/29/23 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		75 - 131	05/20/23 15:17	05/29/23 16:37	1
Dibromofluoromethane	106		75 - 126	05/20/23 15:17	05/29/23 16:37	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	05/20/23 15:17	05/29/23 16:37	1
Toluene-d8 (Surr)	116		75 - 124	05/20/23 15:17	05/29/23 16:37	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Benzo[a]anthracene	0.018	J	0.037	0.0051	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1

Euofins Chicago

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.014	J	0.037	0.0073	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Benzo[b]fluoranthene	0.019	J	0.037	0.0081	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Benzo[g,h,i]perylene	0.014	J F1	0.037	0.012	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Bis(2-chloroethoxy)methane	<0.19	F1	0.19	0.038	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Bis(2-chloroethyl)ether	<0.19	F1 F2	0.19	0.056	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Chlorophenol	<0.19	F1 F2	0.19	0.064	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Chlorophenyl phenyl ether	<0.19	F1	0.19	0.044	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Chrysene	0.012	J	0.037	0.010	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
1,2-Dichlorobenzene	<0.19	F1 F2	0.19	0.045	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
1,3-Dichlorobenzene	<0.19	F1	0.19	0.042	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
1,4-Dichlorobenzene	<0.19	F1 F2	0.19	0.048	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
3,3'-Dichlorobenzidine	<0.19	F2	0.19	0.053	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4,6-Dinitro-2-methylphenol	<0.76	F2	0.76	0.30	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,4-Dinitrophenol	<0.76	F1 F2	0.76	0.66	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Fluoranthene	0.019	J	0.037	0.0070	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Fluorene	<0.037	F1	0.037	0.0053	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Hexachlorobutadiene	<0.19	F1 F2	0.19	0.059	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Hexachlorocyclopentadiene	<0.76	F2	0.76	0.22	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Hexachloroethane	<0.19	F1	0.19	0.057	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Indeno[1,2,3-cd]pyrene	0.024	J	0.037	0.0097	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Methylnaphthalene	<0.076	F1	0.076	0.0069	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Methylphenol	<0.19	F1	0.19	0.060	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Naphthalene	<0.037	F1 F2	0.037	0.0058	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
4-Nitroaniline	<0.37	F2	0.37	0.16	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
Nitrobenzene	<0.037	F1 F2	0.037	0.0094	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1
2-Nitrophenol	<0.37	F1 F2	0.37	0.089	mg/Kg	☼	05/24/23 12:54	05/31/23 11:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
N-Nitrosodi-n-propylamine	<0.076	F1	0.076	0.046	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
2,2'-oxybis[1-chloropropane]	<0.19	F1 F2	0.19	0.044	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
Pentachlorophenol	<0.76	F2	0.76	0.60	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
Phenanthrene	0.0072	J	0.037	0.0052	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
Phenol	<0.19	F1 F2	0.19	0.084	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
Pyrene	0.017	J	0.037	0.0075	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
1,2,4-Trichlorobenzene	<0.19	F1 F2	0.19	0.041	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☆	05/24/23 12:54	05/31/23 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	64		43 - 145	05/24/23 12:54	05/31/23 11:59	1
2-Fluorophenol (Surr)	55		31 - 166	05/24/23 12:54	05/31/23 11:59	1
Nitrobenzene-d5 (Surr)	61		37 - 147	05/24/23 12:54	05/31/23 11:59	1
Phenol-d5 (Surr)	58		30 - 153	05/24/23 12:54	05/31/23 11:59	1
Terphenyl-d14 (Surr)	69		42 - 157	05/24/23 12:54	05/31/23 11:59	1
2,4,6-Tribromophenol (Surr)	43		31 - 143	05/24/23 12:54	05/31/23 11:59	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.1	0.21	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Arsenic	13		0.53	0.18	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Barium	38		0.53	0.061	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Beryllium	0.71		0.21	0.050	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Boron	6.1		2.7	0.25	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Cadmium	0.14	B	0.11	0.019	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Calcium	52000		53	9.0	mg/Kg	☆	05/26/23 09:39	06/07/23 16:02	5
Chromium	9.5		0.53	0.26	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Cobalt	11		0.27	0.070	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Copper	18	B	0.53	0.15	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Iron	23000		11	5.5	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Lead	26		0.27	0.12	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Magnesium	27000		5.3	2.6	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Manganese	450		0.53	0.077	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Nickel	18		0.53	0.15	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Potassium	1200		27	9.4	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Selenium	0.35	J	0.53	0.31	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Silver	0.22	J	0.27	0.069	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Sodium	1400		53	7.9	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Thallium	<0.53		0.53	0.27	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Vanadium	15		0.27	0.063	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1
Zinc	62		1.1	0.47	mg/Kg	☆	05/26/23 09:39	06/06/23 16:24	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/26/23 16:41	05/30/23 20:48	1
Boron	0.16	J	0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:48	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Method: SW846 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		05/26/23 16:41	05/30/23 20:48	1
Chromium	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Cobalt	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Iron	<0.40		0.40	0.20	mg/L		05/26/23 16:41	05/30/23 20:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/26/23 16:41	05/30/23 20:48	1
Manganese	1.7		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Nickel	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Selenium	0.023	J B	0.050	0.020	mg/L		05/26/23 16:41	05/30/23 20:48	1
Silver	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:48	1
Zinc	<0.50		0.50	0.020	mg/L		05/26/23 16:41	05/30/23 20:48	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.0		0.025	0.010	mg/L		05/26/23 16:43	06/01/23 20:12	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/26/23 16:41	06/06/23 20:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/26/23 16:41	06/06/23 20:58	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/31/23 10:05	06/01/23 10:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0090	mg/Kg	☆	06/01/23 14:00	06/02/23 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0		0.2	0.2	SU			05/26/23 19:11	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017	J	0.021	0.0092	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1,2,2-Tetrachloroethane	<0.0021	*3	0.0021	0.00068	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1
Xylenes, Total	<0.0042		0.0042	0.00068	mg/Kg	☼	05/20/23 15:17	05/29/23 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	*3 S1+	75 - 131	05/20/23 15:17	05/29/23 17:02	1
Dibromofluoromethane	105		75 - 126	05/20/23 15:17	05/29/23 17:02	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	05/20/23 15:17	05/29/23 17:02	1
Toluene-d8 (Surr)	119		75 - 124	05/20/23 15:17	05/29/23 17:02	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	05/24/23 12:54	05/31/23 13:08	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	05/24/23 12:54	05/31/23 13:08	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	05/24/23 12:54	05/31/23 13:08	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	05/24/23 12:54	05/31/23 13:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Phenol	<0.18		0.18	0.081	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☆	05/24/23 12:54	05/31/23 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		43 - 145	05/24/23 12:54	05/31/23 13:08	1
2-Fluorophenol (Surr)	51		31 - 166	05/24/23 12:54	05/31/23 13:08	1
Nitrobenzene-d5 (Surr)	57		37 - 147	05/24/23 12:54	05/31/23 13:08	1
Phenol-d5 (Surr)	54		30 - 153	05/24/23 12:54	05/31/23 13:08	1
Terphenyl-d14 (Surr)	66		42 - 157	05/24/23 12:54	05/31/23 13:08	1
2,4,6-Tribromophenol (Surr)	42		31 - 143	05/24/23 12:54	05/31/23 13:08	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.2	0.23	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Arsenic	13		0.58	0.20	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Barium	80		0.58	0.066	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Beryllium	0.66		0.23	0.054	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Boron	7.6		2.9	0.27	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Cadmium	0.17	B	0.12	0.021	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Calcium	47000		58	9.8	mg/Kg	☆	05/26/23 09:39	06/07/23 16:05	5
Chromium	9.8		0.58	0.29	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Cobalt	13		0.29	0.076	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Copper	20	B	0.58	0.16	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Iron	21000		12	6.0	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Lead	16		0.29	0.13	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Magnesium	23000		5.8	2.9	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Manganese	440		0.58	0.084	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Nickel	22		0.58	0.17	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Potassium	1300		29	10	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Selenium	0.39	J	0.58	0.34	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Silver	0.24	J	0.29	0.075	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Sodium	530		58	8.6	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Thallium	<0.58		0.58	0.29	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Vanadium	16		0.29	0.069	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1
Zinc	54		1.2	0.51	mg/Kg	☆	05/26/23 09:39	06/06/23 16:34	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90		0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/26/23 16:41	05/30/23 20:52	1
Boron	0.17	J	0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:52	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Method: SW846 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		05/26/23 16:41	05/30/23 20:52	1
Chromium	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Cobalt	0.033		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Iron	<0.40		0.40	0.20	mg/L		05/26/23 16:41	05/30/23 20:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/26/23 16:41	05/30/23 20:52	1
Manganese	7.0		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Nickel	0.018 J		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Selenium	0.025 J B		0.050	0.020	mg/L		05/26/23 16:41	05/30/23 20:52	1
Silver	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:52	1
Zinc	0.022 J B		0.50	0.020	mg/L		05/26/23 16:41	05/30/23 20:52	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		05/26/23 16:43	06/01/23 20:16	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/26/23 16:41	06/06/23 21:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/26/23 16:41	06/06/23 21:00	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/31/23 10:05	06/01/23 10:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016 J		0.018	0.0095	mg/Kg	☆	06/01/23 14:00	06/02/23 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0		0.2	0.2	SU			05/26/23 19:14	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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
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.
S1-	Surrogate recovery exceeds control limits, low biased.

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-WO 19 - Palos Park

Job ID: 500-234079-1

GC/MS VOA

Prep Batch: 714877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	5035	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	5035	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	5035	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	5035	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	5035	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	5035	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	5035	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 715655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	8260B	714877
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	8260B	714877
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	8260B	714877
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	8260B	714877
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	8260B	714877
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	8260B	714877
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	8260B	714877
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	8260B	714877
MB 500-715655/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-715655/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-715655/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 715029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	3541	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	3541	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	3541	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	3541	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	3541	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	3541	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	3541	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	3541	
MB 500-715029/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-715029/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-234079-1 MS	3359V-04-B02 (0-6)	Total/NA	Solid	3541	
500-234079-1 MSD	3359V-04-B02 (0-6)	Total/NA	Solid	3541	

Analysis Batch: 715743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-715029/1-A	Method Blank	Total/NA	Solid	8270D	715029
LCS 500-715029/2-A	Lab Control Sample	Total/NA	Solid	8270D	715029

Analysis Batch: 715936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	8270D	715029
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	8270D	715029
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	8270D	715029
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	8270D	715029

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

GC/MS Semi VOA (Continued)

Analysis Batch: 715936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	8270D	715029
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	8270D	715029
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	8270D	715029
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	8270D	715029
500-234079-1 MS	3359V-04-B02 (0-6)	Total/NA	Solid	8270D	715029
500-234079-1 MSD	3359V-04-B02 (0-6)	Total/NA	Solid	8270D	715029

Metals

Leach Batch: 715305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	SPLP East	Solid	1312	
500-234079-2	3359V-04-B02 (6-11)	SPLP East	Solid	1312	
500-234079-4	3359V-04-B01 (0-6) DUP	SPLP East	Solid	1312	
500-234079-5	3359V-04-B01 (6-11)	SPLP East	Solid	1312	
500-234079-6	3359V-04-B01 (6-11) DUP	SPLP East	Solid	1312	
500-234079-7	3359V-05-B01 (0-5)	SPLP East	Solid	1312	
500-234079-8	3359V-01-B01 (0-2)	SPLP East	Solid	1312	
LB 500-715305/1-B	Method Blank	SPLP East	Solid	1312	
500-234079-8 MS	3359V-01-B01 (0-2)	SPLP East	Solid	1312	
500-234079-8 DU	3359V-01-B01 (0-2)	SPLP East	Solid	1312	

Leach Batch: 715317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	1311	
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	1311	
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	1311	
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	1311	
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	1311	
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	1311	
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	1311	
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	1311	
LB 500-715317/1-C	Method Blank	TCLP	Solid	1311	
LB 500-715317/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 715485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	3050B	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	3050B	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	3050B	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	3050B	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	3050B	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	3050B	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	3050B	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-715485/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-715485/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 715578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	3010A	715317

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Metals (Continued)

Prep Batch: 715578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	3010A	715317
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	3010A	715317
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	3010A	715317
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	3010A	715317
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	3010A	715317
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	3010A	715317
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	3010A	715317
LB 500-715317/1-C	Method Blank	TCLP	Solid	3010A	715317
LCS 500-715578/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 715582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	SPLP East	Solid	3010A	715305
500-234079-2	3359V-04-B02 (6-11)	SPLP East	Solid	3010A	715305
500-234079-4	3359V-04-B01 (0-6) DUP	SPLP East	Solid	3010A	715305
500-234079-5	3359V-04-B01 (6-11)	SPLP East	Solid	3010A	715305
500-234079-6	3359V-04-B01 (6-11) DUP	SPLP East	Solid	3010A	715305
500-234079-7	3359V-05-B01 (0-5)	SPLP East	Solid	3010A	715305
500-234079-8	3359V-01-B01 (0-2)	SPLP East	Solid	3010A	715305
LB 500-715305/1-B	Method Blank	SPLP East	Solid	3010A	715305
LCS 500-715582/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-234079-8 MS	3359V-01-B01 (0-2)	SPLP East	Solid	3010A	715305
500-234079-8 DU	3359V-01-B01 (0-2)	SPLP East	Solid	3010A	715305

Prep Batch: 716026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	7470A	715317
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	7470A	715317
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	7470A	715317
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	7470A	715317
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	7470A	715317
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	7470A	715317
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	7470A	715317
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	7470A	715317
LB 500-715317/1-F	Method Blank	TCLP	Solid	7470A	715317
MB 500-716026/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-716026/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 716049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	6010B	715578
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	6010B	715578
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	6010B	715578
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	6010B	715578
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	6010B	715578
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	6010B	715578
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	6010B	715578
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	6010B	715578
LB 500-715317/1-C	Method Blank	TCLP	Solid	6010B	715578
LCS 500-715578/2-A	Lab Control Sample	Total/NA	Solid	6010B	715578

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Metals

Analysis Batch: 716112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-715578/2-A	Lab Control Sample	Total/NA	Solid	6010B	715578

Prep Batch: 716246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	7471B	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	7471B	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	7471B	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	7471B	
MB 500-716246/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-716246/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 716247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	7471B	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	7471B	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	7471B	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-716247/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-716247/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 716328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	7470A	716026
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	7470A	716026
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	7470A	716026
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	7470A	716026
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	7470A	716026
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	7470A	716026
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	7470A	716026
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	7470A	716026
LB 500-715317/1-F	Method Blank	TCLP	Solid	7470A	716026
MB 500-716026/12-A	Method Blank	Total/NA	Solid	7470A	716026
LCS 500-716026/14-A	Lab Control Sample	Total/NA	Solid	7470A	716026

Analysis Batch: 716542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	SPLP East	Solid	6010B	715582
500-234079-2	3359V-04-B02 (6-11)	SPLP East	Solid	6010B	715582
500-234079-4	3359V-04-B01 (0-6) DUP	SPLP East	Solid	6010B	715582
500-234079-5	3359V-04-B01 (6-11)	SPLP East	Solid	6010B	715582
500-234079-6	3359V-04-B01 (6-11) DUP	SPLP East	Solid	6010B	715582
500-234079-7	3359V-05-B01 (0-5)	SPLP East	Solid	6010B	715582
500-234079-8	3359V-01-B01 (0-2)	SPLP East	Solid	6010B	715582
LB 500-715305/1-B	Method Blank	SPLP East	Solid	6010B	715582
LCS 500-715582/2-A	Lab Control Sample	Total/NA	Solid	6010B	715582
500-234079-8 MS	3359V-01-B01 (0-2)	SPLP East	Solid	6010B	715582
500-234079-8 DU	3359V-01-B01 (0-2)	SPLP East	Solid	6010B	715582

Analysis Batch: 716551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	7471B	716246

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Metals (Continued)

Analysis Batch: 716551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	7471B	716246
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	7471B	716246
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	7471B	716246
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	7471B	716247
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	7471B	716247
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	7471B	716247
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	7471B	716247
MB 500-716246/12-A	Method Blank	Total/NA	Solid	7471B	716246
MB 500-716247/12-A	Method Blank	Total/NA	Solid	7471B	716247
LCS 500-716246/13-A	Lab Control Sample	Total/NA	Solid	7471B	716246
LCS 500-716247/13-A	Lab Control Sample	Total/NA	Solid	7471B	716247

Analysis Batch: 717261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	TCLP	Solid	6020B	715578
500-234079-2	3359V-04-B02 (6-11)	TCLP	Solid	6020B	715578
500-234079-3	3359V-04-B01 (0-6)	TCLP	Solid	6020B	715578
500-234079-4	3359V-04-B01 (0-6) DUP	TCLP	Solid	6020B	715578
500-234079-5	3359V-04-B01 (6-11)	TCLP	Solid	6020B	715578
500-234079-6	3359V-04-B01 (6-11) DUP	TCLP	Solid	6020B	715578
500-234079-7	3359V-05-B01 (0-5)	TCLP	Solid	6020B	715578
500-234079-8	3359V-01-B01 (0-2)	TCLP	Solid	6020B	715578
LB 500-715317/1-C	Method Blank	TCLP	Solid	6020B	715578
LCS 500-715578/2-A	Lab Control Sample	Total/NA	Solid	6020B	715578

Analysis Batch: 717268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	6010B	715485
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	6010B	715485
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	6010B	715485
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	6010B	715485
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	6010B	715485
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	6010B	715485
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	6010B	715485
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	6010B	715485
MB 500-715485/1-A	Method Blank	Total/NA	Solid	6010B	715485
LCS 500-715485/2-A	Lab Control Sample	Total/NA	Solid	6010B	715485

Analysis Batch: 717495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	6010B	715485
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	6010B	715485
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	6010B	715485
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	6010B	715485
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	6010B	715485
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	6010B	715485

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

General Chemistry

Analysis Batch: 715315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	Moisture	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	Moisture	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	Moisture	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	Moisture	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	Moisture	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	Moisture	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	Moisture	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 715691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234079-1	3359V-04-B02 (0-6)	Total/NA	Solid	9045D	
500-234079-2	3359V-04-B02 (6-11)	Total/NA	Solid	9045D	
500-234079-3	3359V-04-B01 (0-6)	Total/NA	Solid	9045D	
500-234079-4	3359V-04-B01 (0-6) DUP	Total/NA	Solid	9045D	
500-234079-5	3359V-04-B01 (6-11)	Total/NA	Solid	9045D	
500-234079-6	3359V-04-B01 (6-11) DUP	Total/NA	Solid	9045D	
500-234079-7	3359V-05-B01 (0-5)	Total/NA	Solid	9045D	
500-234079-8	3359V-01-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-715691/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-715691/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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)
500-234079-1	3359V-04-B02 (0-6)	129	106	122	116
500-234079-2	3359V-04-B02 (6-11)	147 *3 S1+	105	123	119
500-234079-3	3359V-04-B01 (0-6)	120	106	126	114
500-234079-4	3359V-04-B01 (0-6) DUP	123	106	125	115
500-234079-5	3359V-04-B01 (6-11)	124	107	126	104
500-234079-6	3359V-04-B01 (6-11) DUP	141 *3 S1+	105	124	132 S1+
500-234079-7	3359V-05-B01 (0-5)	124	103	123	132 S1+
500-234079-8	3359V-01-B01 (0-2)	113	107	126	114
LCS 500-715655/4	Lab Control Sample	124	96	106	121
LCSD 500-715655/5	Lab Control Sample Dup	125	98	108	119
MB 500-715655/7	Method Blank	120	100	107	117

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-234079-1	3359V-04-B02 (0-6)	64	55	61	58	69	43
500-234079-1 MS	3359V-04-B02 (0-6)	66	58	64	60	76	68
500-234079-1 MSD	3359V-04-B02 (0-6)	69	5 S1-	35 S1-	40	89	85
500-234079-2	3359V-04-B02 (6-11)	60	51	57	54	66	42
500-234079-3	3359V-04-B01 (0-6)	67	54	63	59	83	47
500-234079-4	3359V-04-B01 (0-6) DUP	64	56	60	60	73	47
500-234079-5	3359V-04-B01 (6-11)	66	56	63	64	80	59
500-234079-6	3359V-04-B01 (6-11) DUP	54	46	51	48	60	39
500-234079-7	3359V-05-B01 (0-5)	70	62	68	65	78	55
500-234079-8	3359V-01-B01 (0-2)	83	73	80	77	93	79
LCS 500-715029/2-A	Lab Control Sample	76	75	80	76	84	78
MB 500-715029/1-A	Method Blank	84	86	89	86	92	71

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: MB 500-715655/7
Matrix: Solid
Analysis Batch: 715655

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			05/29/23 11:19	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/29/23 11:19	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/29/23 11:19	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/29/23 11:19	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/29/23 11:19	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/29/23 11:19	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/29/23 11:19	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/29/23 11:19	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/29/23 11:19	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/29/23 11:19	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/29/23 11:19	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/29/23 11:19	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/29/23 11:19	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/29/23 11:19	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/29/23 11:19	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/29/23 11:19	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/29/23 11:19	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/29/23 11:19	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/29/23 11:19	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			05/29/23 11:19	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/29/23 11:19	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/29/23 11:19	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/29/23 11:19	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/29/23 11:19	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/29/23 11:19	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/29/23 11:19	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/29/23 11:19	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/29/23 11:19	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/29/23 11:19	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/29/23 11:19	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/29/23 11:19	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/29/23 11:19	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/29/23 11:19	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/29/23 11:19	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/29/23 11:19	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/29/23 11:19	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/29/23 11:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	120		75 - 131		05/29/23 11:19	1
Dibromofluoromethane	100		75 - 126		05/29/23 11:19	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		05/29/23 11:19	1
Toluene-d8 (Surr)	117		75 - 124		05/29/23 11:19	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715655/4
Matrix: Solid
Analysis Batch: 715655

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	0.0625		mg/Kg		125	40 - 150
Benzene	0.0500	0.0442		mg/Kg		88	70 - 125
Bromodichloromethane	0.0500	0.0479		mg/Kg		96	67 - 129
Bromoform	0.0500	0.0459		mg/Kg		92	68 - 136
Bromomethane	0.0500	0.0433		mg/Kg		87	70 - 130
2-Butanone (MEK)	0.0500	0.0522		mg/Kg		104	47 - 138
Carbon disulfide	0.0500	0.0446		mg/Kg		89	70 - 129
Carbon tetrachloride	0.0500	0.0455		mg/Kg		91	75 - 125
Chlorobenzene	0.0500	0.0447		mg/Kg		89	50 - 150
Chloroethane	0.0500	0.0500		mg/Kg		100	75 - 125
Chloroform	0.0500	0.0428		mg/Kg		86	57 - 135
Chloromethane	0.0500	0.0483		mg/Kg		97	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0432		mg/Kg		86	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0523		mg/Kg		105	70 - 125
Dibromochloromethane	0.0500	0.0490		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0484		mg/Kg		97	70 - 125
1,2-Dichloroethane	0.0500	0.0500		mg/Kg		100	70 - 130
1,1-Dichloroethene	0.0500	0.0440		mg/Kg		88	70 - 120
1,2-Dichloropropane	0.0500	0.0514		mg/Kg		103	70 - 125
Ethylbenzene	0.0500	0.0444		mg/Kg		89	61 - 136
2-Hexanone	0.0500	0.0589		mg/Kg		118	48 - 146
Methylene Chloride	0.0500	0.0444		mg/Kg		89	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0586		mg/Kg		117	50 - 148
Methyl tert-butyl ether	0.0500	0.0458		mg/Kg		92	50 - 140
Styrene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0481		mg/Kg		96	70 - 122
Tetrachloroethene	0.0500	0.0447		mg/Kg		89	70 - 124
Toluene	0.0500	0.0462		mg/Kg		92	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0424		mg/Kg		85	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0546		mg/Kg		109	70 - 125
1,1,1-Trichloroethane	0.0500	0.0479		mg/Kg		96	70 - 128
1,1,2-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 125
Trichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
Vinyl acetate	0.0500	0.0417		mg/Kg		83	40 - 153
Vinyl chloride	0.0500	0.0491		mg/Kg		98	70 - 125
Xylenes, Total	0.100	0.0935		mg/Kg		94	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	124		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	106		70 - 134
Toluene-d8 (Surr)	121		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCSD 500-715655/5
Matrix: Solid
Analysis Batch: 715655

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	0.0625		mg/Kg		125	40 - 150	0	30
Benzene	0.0500	0.0416		mg/Kg		83	70 - 125	6	30
Bromodichloromethane	0.0500	0.0454		mg/Kg		91	67 - 129	5	30
Bromoform	0.0500	0.0443		mg/Kg		89	68 - 136	4	30
Bromomethane	0.0500	0.0446		mg/Kg		89	70 - 130	3	30
2-Butanone (MEK)	0.0500	0.0517		mg/Kg		103	47 - 138	1	30
Carbon disulfide	0.0500	0.0427		mg/Kg		85	70 - 129	4	30
Carbon tetrachloride	0.0500	0.0432		mg/Kg		86	75 - 125	5	30
Chlorobenzene	0.0500	0.0437		mg/Kg		87	50 - 150	2	30
Chloroethane	0.0500	0.0515		mg/Kg		103	75 - 125	3	30
Chloroform	0.0500	0.0407		mg/Kg		81	57 - 135	5	30
Chloromethane	0.0500	0.0486		mg/Kg		97	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0415		mg/Kg		83	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0512		mg/Kg		102	70 - 125	2	30
Dibromochloromethane	0.0500	0.0486		mg/Kg		97	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0460		mg/Kg		92	70 - 125	5	30
1,2-Dichloroethane	0.0500	0.0478		mg/Kg		96	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0418		mg/Kg		84	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0493		mg/Kg		99	70 - 125	4	30
Ethylbenzene	0.0500	0.0434		mg/Kg		87	61 - 136	2	30
2-Hexanone	0.0500	0.0570		mg/Kg		114	48 - 146	3	30
Methylene Chloride	0.0500	0.0424		mg/Kg		85	70 - 126	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0573		mg/Kg		115	50 - 148	2	30
Methyl tert-butyl ether	0.0500	0.0441		mg/Kg		88	50 - 140	4	30
Styrene	0.0500	0.0429		mg/Kg		86	70 - 125	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0465		mg/Kg		93	70 - 122	3	30
Tetrachloroethene	0.0500	0.0436		mg/Kg		87	70 - 124	2	30
Toluene	0.0500	0.0451		mg/Kg		90	70 - 125	2	30
trans-1,2-Dichloroethene	0.0500	0.0398		mg/Kg		80	70 - 125	6	30
trans-1,3-Dichloropropene	0.0500	0.0511		mg/Kg		102	70 - 125	7	30
1,1,1-Trichloroethane	0.0500	0.0454		mg/Kg		91	70 - 128	5	30
1,1,2-Trichloroethane	0.0500	0.0465		mg/Kg		93	70 - 125	3	30
Trichloroethene	0.0500	0.0434		mg/Kg		87	70 - 125	4	30
Vinyl acetate	0.0500	0.0409		mg/Kg		82	40 - 153	2	30
Vinyl chloride	0.0500	0.0490		mg/Kg		98	70 - 125	0	30
Xylenes, Total	0.100	0.0906		mg/Kg		91	53 - 147	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	125		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	108		70 - 134
Toluene-d8 (Surr)	119		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: MB 500-715029/1-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715029

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/24/23 12:54	05/30/23 14:40	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: MB 500-715029/1-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715029

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Phenol	<0.17		0.17	0.074	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/24/23 12:54	05/30/23 14:40	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/24/23 12:54	05/30/23 14:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	84		43 - 145	05/24/23 12:54	05/30/23 14:40	1
2-Fluorophenol (Surr)	86		31 - 166	05/24/23 12:54	05/30/23 14:40	1
Nitrobenzene-d5 (Surr)	89		37 - 147	05/24/23 12:54	05/30/23 14:40	1
Phenol-d5 (Surr)	86		30 - 153	05/24/23 12:54	05/30/23 14:40	1
Terphenyl-d14 (Surr)	92		42 - 157	05/24/23 12:54	05/30/23 14:40	1
2,4,6-Tribromophenol (Surr)	71		31 - 143	05/24/23 12:54	05/30/23 14:40	1

Lab Sample ID: LCS 500-715029/2-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	3.33	2.62		mg/Kg		78	68 - 120
Anthracene	3.33	2.76		mg/Kg		83	70 - 114
Benzo[a]anthracene	3.33	2.84		mg/Kg		85	67 - 122
Benzo[a]pyrene	3.33	3.18		mg/Kg		95	65 - 133
Benzo[b]fluoranthene	3.33	2.92		mg/Kg		88	69 - 129
Benzo[g,h,i]perylene	3.33	2.79		mg/Kg		84	72 - 131
Benzo[k]fluoranthene	3.33	2.81		mg/Kg		84	68 - 127
Bis(2-chloroethoxy)methane	3.33	2.64		mg/Kg		79	60 - 112
Bis(2-chloroethyl)ether	3.33	2.46		mg/Kg		74	55 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.38		mg/Kg		101	72 - 131
4-Bromophenyl phenyl ether	3.33	2.64		mg/Kg		79	68 - 118
Butyl benzyl phthalate	3.33	3.35		mg/Kg		100	71 - 129
Carbazole	3.33	2.82		mg/Kg		85	65 - 142
4-Chloroaniline	3.33	1.91		mg/Kg		57	30 - 150
4-Chloro-3-methylphenol	3.33	2.83		mg/Kg		85	65 - 122
2-Chloronaphthalene	3.33	2.60		mg/Kg		78	69 - 114
2-Chlorophenol	3.33	2.45		mg/Kg		74	64 - 110

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715029/2-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorophenyl phenyl ether	3.33	2.57		mg/Kg		77	62 - 119
Chrysene	3.33	2.85		mg/Kg		85	63 - 120
Dibenz(a,h)anthracene	3.33	2.82		mg/Kg		85	64 - 131
Dibenzofuran	3.33	2.65		mg/Kg		80	66 - 115
1,2-Dichlorobenzene	3.33	2.26		mg/Kg		68	62 - 110
1,3-Dichlorobenzene	3.33	2.18		mg/Kg		65	65 - 124
1,4-Dichlorobenzene	3.33	2.23		mg/Kg		67	61 - 110
3,3'-Dichlorobenzidine	3.33	2.18		mg/Kg		66	35 - 128
2,4-Dichlorophenol	3.33	2.54		mg/Kg		76	58 - 120
Diethyl phthalate	3.33	2.79		mg/Kg		84	58 - 120
2,4-Dimethylphenol	3.33	2.41		mg/Kg		72	60 - 110
Dimethyl phthalate	3.33	2.71		mg/Kg		81	69 - 116
Di-n-butyl phthalate	3.33	2.89		mg/Kg		87	65 - 120
4,6-Dinitro-2-methylphenol	6.67	5.11		mg/Kg		77	10 - 110
2,4-Dinitrophenol	6.67	3.87		mg/Kg		58	10 - 100
2,4-Dinitrotoluene	3.33	2.85		mg/Kg		85	69 - 124
2,6-Dinitrotoluene	3.33	2.81		mg/Kg		84	70 - 123
Di-n-octyl phthalate	3.33	3.13		mg/Kg		94	68 - 134
Fluoranthene	3.33	2.69		mg/Kg		81	62 - 120
Fluorene	3.33	2.56		mg/Kg		77	62 - 120
Hexachlorobenzene	3.33	2.60		mg/Kg		78	63 - 124
Hexachlorobutadiene	3.33	2.38		mg/Kg		71	56 - 120
Hexachlorocyclopentadiene	3.33	1.13		mg/Kg		34	10 - 133
Hexachloroethane	3.33	2.39		mg/Kg		72	60 - 114
Indeno[1,2,3-cd]pyrene	3.33	2.75		mg/Kg		83	68 - 130
Isophorone	3.33	2.71		mg/Kg		81	55 - 110
2-Methylnaphthalene	3.33	2.48		mg/Kg		74	69 - 112
2-Methylphenol	3.33	2.54		mg/Kg		76	60 - 120
3 & 4 Methylphenol	3.33	2.59		mg/Kg		78	57 - 120
Naphthalene	3.33	2.35		mg/Kg		71	63 - 110
2-Nitroaniline	3.33	3.16		mg/Kg		95	57 - 124
3-Nitroaniline	3.33	2.32		mg/Kg		70	40 - 122
4-Nitroaniline	3.33	2.67		mg/Kg		80	60 - 160
Nitrobenzene	3.33	2.78		mg/Kg		83	60 - 116
2-Nitrophenol	3.33	2.59		mg/Kg		78	60 - 120
4-Nitrophenol	6.67	6.27		mg/Kg		94	30 - 122
N-Nitrosodi-n-propylamine	3.33	2.61		mg/Kg		78	56 - 118
N-Nitrosodiphenylamine	3.33	2.81		mg/Kg		84	65 - 112
2,2'-oxybis[1-chloropropane]	3.33	2.82		mg/Kg		84	40 - 124
Pentachlorophenol	6.67	5.06		mg/Kg		76	13 - 112
Phenanthrene	3.33	2.61		mg/Kg		78	62 - 120
Phenol	3.33	2.57		mg/Kg		77	56 - 122
Pyrene	3.33	2.89		mg/Kg		87	61 - 128
1,2,4-Trichlorobenzene	3.33	2.37		mg/Kg		71	66 - 117
2,4,5-Trichlorophenol	3.33	2.74		mg/Kg		82	50 - 120
2,4,6-Trichlorophenol	3.33	2.53		mg/Kg		76	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715029/2-A
Matrix: Solid
Analysis Batch: 715743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715029

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	76		43 - 145
2-Fluorophenol (Surr)	75		31 - 166
Nitrobenzene-d5 (Surr)	80		37 - 147
Phenol-d5 (Surr)	76		30 - 153
Terphenyl-d14 (Surr)	84		42 - 157
2,4,6-Tribromophenol (Surr)	78		31 - 143

Lab Sample ID: 500-234079-1 MS
Matrix: Solid
Analysis Batch: 715936

Client Sample ID: 3359V-04-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 715029

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	<0.037		3.81	2.64		mg/Kg	⊛	69	65 - 124
Acenaphthylene	<0.037		3.81	2.68		mg/Kg	⊛	70	68 - 120
Anthracene	<0.037		3.81	2.73		mg/Kg	⊛	71	70 - 114
Benzo[a]anthracene	0.018	J	3.81	2.84		mg/Kg	⊛	74	67 - 122
Benzo[a]pyrene	0.014	J	3.81	3.13		mg/Kg	⊛	82	65 - 133
Benzo[b]fluoranthene	0.019	J	3.81	2.86		mg/Kg	⊛	75	69 - 129
Benzo[g,h,i]perylene	0.014	J F1	3.81	2.65	F1	mg/Kg	⊛	69	72 - 131
Benzo[k]fluoranthene	<0.037		3.81	2.72		mg/Kg	⊛	71	68 - 127
Bis(2-chloroethoxy)methane	<0.19	F1	3.81	2.53		mg/Kg	⊛	66	60 - 112
Bis(2-chloroethyl)ether	<0.19	F1 F2	3.81	2.46		mg/Kg	⊛	65	55 - 111
Bis(2-ethylhexyl) phthalate	<0.19		3.81	3.07		mg/Kg	⊛	81	72 - 131
4-Bromophenyl phenyl ether	<0.19		3.81	2.82		mg/Kg	⊛	74	68 - 118
Butyl benzyl phthalate	<0.19		3.81	3.02		mg/Kg	⊛	79	71 - 129
Carbazole	<0.19		3.81	2.68		mg/Kg	⊛	70	65 - 142
4-Chloroaniline	<0.76		3.81	2.09		mg/Kg	⊛	55	30 - 150
4-Chloro-3-methylphenol	<0.37		3.81	2.54		mg/Kg	⊛	67	65 - 122
2-Chloronaphthalene	<0.19		3.81	2.70		mg/Kg	⊛	71	69 - 114
2-Chlorophenol	<0.19	F1 F2	3.81	2.37	F1	mg/Kg	⊛	62	64 - 110
4-Chlorophenyl phenyl ether	<0.19	F1	3.81	2.32	F1	mg/Kg	⊛	61	62 - 119
Chrysene	0.012	J	3.81	2.85		mg/Kg	⊛	74	63 - 120
Dibenz(a,h)anthracene	<0.037		3.81	2.94		mg/Kg	⊛	77	64 - 131
Dibenzofuran	<0.19		3.81	2.51		mg/Kg	⊛	66	66 - 115
1,2-Dichlorobenzene	<0.19	F1 F2	3.81	2.32	F1	mg/Kg	⊛	61	62 - 110
1,3-Dichlorobenzene	<0.19	F1	3.81	2.28		mg/Kg	⊛	60	60 - 110
1,4-Dichlorobenzene	<0.19	F1 F2	3.81	2.30	F1	mg/Kg	⊛	60	61 - 110
3,3'-Dichlorobenzidine	<0.19	F2	3.81	2.53		mg/Kg	⊛	66	35 - 128
2,4-Dichlorophenol	<0.37		3.81	2.59		mg/Kg	⊛	68	58 - 120
Diethyl phthalate	<0.19		3.81	2.78		mg/Kg	⊛	73	58 - 120
2,4-Dimethylphenol	<0.37		3.81	2.34		mg/Kg	⊛	61	60 - 110
Dimethyl phthalate	<0.19		3.81	2.70		mg/Kg	⊛	71	69 - 116
Di-n-butyl phthalate	<0.19		3.81	2.94		mg/Kg	⊛	77	65 - 120
4,6-Dinitro-2-methylphenol	<0.76	F2	7.62	2.57		mg/Kg	⊛	34	10 - 110
2,4-Dinitrophenol	<0.76	F1 F2	7.62	0.709	J F1	mg/Kg	⊛	9	10 - 100
2,4-Dinitrotoluene	<0.19		3.81	2.83		mg/Kg	⊛	74	69 - 124
2,6-Dinitrotoluene	<0.19		3.81	2.67		mg/Kg	⊛	70	70 - 123
Di-n-octyl phthalate	<0.19		3.81	3.03		mg/Kg	⊛	80	68 - 134

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: 500-234079-1 MS

Matrix: Solid

Analysis Batch: 715936

Client Sample ID: 3359V-04-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 715029

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Fluoranthene	0.019	J	3.81	2.75		mg/Kg	☼	72	62 - 120	
Fluorene	<0.037	F1	3.81	2.24	F1	mg/Kg	☼	59	62 - 120	
Hexachlorobenzene	<0.076		3.81	2.76		mg/Kg	☼	72	63 - 124	
Hexachlorobutadiene	<0.19	F1 F2	3.81	2.51		mg/Kg	☼	66	56 - 120	
Hexachlorocyclopentadiene	<0.76	F2	3.81	1.25		mg/Kg	☼	33	10 - 133	
Hexachloroethane	<0.19	F1	3.81	2.27		mg/Kg	☼	60	60 - 114	
Indeno[1,2,3-cd]pyrene	0.024	J	3.81	3.11		mg/Kg	☼	81	68 - 130	
Isophorone	<0.19		3.81	2.42		mg/Kg	☼	64	55 - 110	
2-Methylnaphthalene	<0.076	F1	3.81	2.55	F1	mg/Kg	☼	67	69 - 112	
2-Methylphenol	<0.19	F1	3.81	2.39		mg/Kg	☼	63	60 - 120	
3 & 4 Methylphenol	<0.19		3.81	2.46		mg/Kg	☼	65	57 - 120	
Naphthalene	<0.037	F1 F2	3.81	2.50		mg/Kg	☼	66	63 - 110	
2-Nitroaniline	<0.19		3.81	2.82		mg/Kg	☼	74	57 - 124	
3-Nitroaniline	<0.37		3.81	2.37		mg/Kg	☼	62	40 - 122	
4-Nitroaniline	<0.37	F2	3.81	2.38		mg/Kg	☼	62	60 - 160	
Nitrobenzene	<0.037	F1 F2	3.81	2.58		mg/Kg	☼	68	60 - 116	
2-Nitrophenol	<0.37	F1 F2	3.81	2.30		mg/Kg	☼	60	60 - 120	
4-Nitrophenol	<0.76		7.62	4.90		mg/Kg	☼	64	30 - 122	
N-Nitrosodi-n-propylamine	<0.076	F1	3.81	2.47		mg/Kg	☼	65	56 - 118	
N-Nitrosodiphenylamine	<0.19		3.81	2.74		mg/Kg	☼	72	65 - 112	
2,2'-oxybis[1-chloropropane]	<0.19	F1 F2	3.81	2.58		mg/Kg	☼	68	40 - 124	
Pentachlorophenol	<0.76	F2	7.62	3.18		mg/Kg	☼	42	13 - 112	
Phenanthrene	0.0072	J	3.81	2.65		mg/Kg	☼	69	62 - 120	
Phenol	<0.19	F1 F2	3.81	2.37		mg/Kg	☼	62	56 - 122	
Pyrene	0.017	J	3.81	2.90		mg/Kg	☼	76	61 - 128	
1,2,4-Trichlorobenzene	<0.19	F1 F2	3.81	2.50		mg/Kg	☼	66	66 - 117	
2,4,5-Trichlorophenol	<0.37		3.81	2.54		mg/Kg	☼	67	50 - 120	
2,4,6-Trichlorophenol	<0.37		3.81	2.53		mg/Kg	☼	66	57 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	66		43 - 145
2-Fluorophenol (Surr)	58		31 - 166
Nitrobenzene-d5 (Surr)	64		37 - 147
Phenol-d5 (Surr)	60		30 - 153
Terphenyl-d14 (Surr)	76		42 - 157
2,4,6-Tribromophenol (Surr)	68		31 - 143

Lab Sample ID: 500-234079-1 MSD

Matrix: Solid

Analysis Batch: 715936

Client Sample ID: 3359V-04-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 715029

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier		Result	Qualifier					Limits	RPD
Acenaphthene	<0.037		3.87	2.88		mg/Kg	☼	74	65 - 124	9	30
Acenaphthylene	<0.037		3.87	2.88		mg/Kg	☼	74	68 - 120	7	30
Anthracene	<0.037		3.87	3.16		mg/Kg	☼	82	70 - 114	15	30
Benzo[a]anthracene	0.018	J	3.87	3.40		mg/Kg	☼	87	67 - 122	18	30
Benzo[a]pyrene	0.014	J	3.87	3.77		mg/Kg	☼	97	65 - 133	18	30
Benzo[b]fluoranthene	0.019	J	3.87	3.42		mg/Kg	☼	88	69 - 129	18	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: 500-234079-1 MSD

Client Sample ID: 3359V-04-B02 (0-6)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 715936

Prep Batch: 715029

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Benzo[g,h,i]perylene	0.014	J F1	3.87	3.36		mg/Kg	☼	86	72 - 131	23	30
Benzo[k]fluoranthene	<0.037		3.87	3.28		mg/Kg	☼	85	68 - 127	19	30
Bis(2-chloroethoxy)methane	<0.19	F1	3.87	2.04	F1	mg/Kg	☼	53	60 - 112	21	30
Bis(2-chloroethyl)ether	<0.19	F1 F2	3.87	0.337	F1 F2	mg/Kg	☼	9	55 - 111	152	30
Bis(2-ethylhexyl) phthalate	<0.19		3.87	3.72		mg/Kg	☼	96	72 - 131	19	30
4-Bromophenyl phenyl ether	<0.19		3.87	3.30		mg/Kg	☼	85	68 - 118	16	30
Butyl benzyl phthalate	<0.19		3.87	3.70		mg/Kg	☼	96	71 - 129	20	30
Carbazole	<0.19		3.87	3.21		mg/Kg	☼	83	65 - 142	18	30
4-Chloroaniline	<0.76		3.87	2.65		mg/Kg	☼	68	30 - 150	23	30
4-Chloro-3-methylphenol	<0.37		3.87	3.06		mg/Kg	☼	79	65 - 122	18	30
2-Chloronaphthalene	<0.19		3.87	2.76		mg/Kg	☼	71	69 - 114	2	30
2-Chlorophenol	<0.19	F1 F2	3.87	0.751	F1 F2	mg/Kg	☼	19	64 - 110	104	30
4-Chlorophenyl phenyl ether	<0.19	F1	3.87	2.56		mg/Kg	☼	66	62 - 119	10	30
Chrysene	0.012	J	3.87	3.42		mg/Kg	☼	88	63 - 120	18	30
Dibenz(a,h)anthracene	<0.037		3.87	3.57		mg/Kg	☼	92	64 - 131	19	30
Dibenzofuran	<0.19		3.87	2.79		mg/Kg	☼	72	66 - 115	10	30
1,2-Dichlorobenzene	<0.19	F1 F2	3.87	0.120	J F1 F2	mg/Kg	☼	3	62 - 110	180	30
1,3-Dichlorobenzene	<0.19	F1	3.87	<0.19	F1	mg/Kg	☼	0	60 - 110	NC	30
1,4-Dichlorobenzene	<0.19	F1 F2	3.87	0.0493	J F1 F2	mg/Kg	☼	1	61 - 110	192	30
3,3'-Dichlorobenzidine	<0.19	F2	3.87	3.73	F2	mg/Kg	☼	96	35 - 128	38	30
2,4-Dichlorophenol	<0.37		3.87	2.55		mg/Kg	☼	66	58 - 120	1	30
Diethyl phthalate	<0.19		3.87	3.35		mg/Kg	☼	87	58 - 120	19	30
2,4-Dimethylphenol	<0.37		3.87	2.35		mg/Kg	☼	61	60 - 110	0	30
Dimethyl phthalate	<0.19		3.87	3.22		mg/Kg	☼	83	69 - 116	18	30
Di-n-butyl phthalate	<0.19		3.87	3.50		mg/Kg	☼	91	65 - 120	17	30
4,6-Dinitro-2-methylphenol	<0.76	F2	7.74	4.38	F2	mg/Kg	☼	57	10 - 110	52	30
2,4-Dinitrophenol	<0.76	F1 F2	7.74	1.17	F2	mg/Kg	☼	15	10 - 100	49	30
2,4-Dinitrotoluene	<0.19		3.87	3.45		mg/Kg	☼	89	69 - 124	20	30
2,6-Dinitrotoluene	<0.19		3.87	3.30		mg/Kg	☼	85	70 - 123	21	30
Di-n-octyl phthalate	<0.19		3.87	3.79		mg/Kg	☼	98	68 - 134	22	30
Fluoranthene	0.019	J	3.87	3.25		mg/Kg	☼	84	62 - 120	17	30
Fluorene	<0.037	F1	3.87	2.49		mg/Kg	☼	64	62 - 120	11	30
Hexachlorobenzene	<0.076		3.87	3.27		mg/Kg	☼	85	63 - 124	17	30
Hexachlorobutadiene	<0.19	F1 F2	3.87	0.767	F1 F2	mg/Kg	☼	20	56 - 120	106	30
Hexachlorocyclopentadiene	<0.76	F2	3.87	0.614	J F2	mg/Kg	☼	16	10 - 133	68	30
Hexachloroethane	<0.19	F1	3.87	<0.19	F1	mg/Kg	☼	0	60 - 114	NC	30
Indeno[1,2,3-cd]pyrene	0.024	J	3.87	3.86		mg/Kg	☼	99	68 - 130	22	30
Isophorone	<0.19		3.87	2.48		mg/Kg	☼	64	55 - 110	2	30
2-Methylnaphthalene	<0.076	F1	3.87	2.34	F1	mg/Kg	☼	61	69 - 112	9	30
2-Methylphenol	<0.19	F1	3.87	1.88	F1	mg/Kg	☼	49	60 - 120	24	30
3 & 4 Methylphenol	<0.19		3.87	2.38		mg/Kg	☼	62	57 - 120	3	30
Naphthalene	<0.037	F1 F2	3.87	1.50	F1 F2	mg/Kg	☼	39	63 - 110	50	30
2-Nitroaniline	<0.19		3.87	3.38		mg/Kg	☼	87	57 - 124	18	30
3-Nitroaniline	<0.37		3.87	3.21		mg/Kg	☼	83	40 - 122	30	30
4-Nitroaniline	<0.37	F2	3.87	3.32	F2	mg/Kg	☼	86	60 - 160	33	30
Nitrobenzene	<0.037	F1 F2	3.87	1.40	F1 F2	mg/Kg	☼	36	60 - 116	59	30
2-Nitrophenol	<0.37	F1 F2	3.87	1.68	F1 F2	mg/Kg	☼	43	60 - 120	31	30
4-Nitrophenol	<0.76		7.74	6.15		mg/Kg	☼	80	30 - 122	23	30
N-Nitrosodi-n-propylamine	<0.076	F1	3.87	2.11	F1	mg/Kg	☼	54	56 - 118	16	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: 500-234079-1 MSD

Matrix: Solid

Analysis Batch: 715936

Client Sample ID: 3359V-04-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 715029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiphenylamine	<0.19		3.87	3.21		mg/Kg	☼	83	65 - 112	16	30
2,2'-oxybis[1-chloropropane]	<0.19	F1 F2	3.87	0.562	F1 F2	mg/Kg	☼	15	40 - 124	128	30
Pentachlorophenol	<0.76	F2	7.74	4.99	F2	mg/Kg	☼	65	13 - 112	44	30
Phenanthrene	0.0072	J	3.87	3.09		mg/Kg	☼	80	62 - 120	15	30
Phenol	<0.19	F1 F2	3.87	1.53	F1 F2	mg/Kg	☼	40	56 - 122	43	30
Pyrene	0.017	J	3.87	3.33		mg/Kg	☼	86	61 - 128	14	30
1,2,4-Trichlorobenzene	<0.19	F1 F2	3.87	1.27	F1 F2	mg/Kg	☼	33	66 - 117	65	30
2,4,5-Trichlorophenol	<0.37		3.87	3.03		mg/Kg	☼	78	50 - 120	17	30
2,4,6-Trichlorophenol	<0.37		3.87	2.99		mg/Kg	☼	77	57 - 120	17	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl (Surr)	69		43 - 145
2-Fluorophenol (Surr)	5	S1-	31 - 166
Nitrobenzene-d5 (Surr)	35	S1-	37 - 147
Phenol-d5 (Surr)	40		30 - 153
Terphenyl-d14 (Surr)	89		42 - 157
2,4,6-Tribromophenol (Surr)	85		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-715485/1-A

Matrix: Solid

Analysis Batch: 717268

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 715485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Barium	<1.0		1.0	0.11	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Boron	<5.0		5.0	0.47	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Cadmium	0.0718	J	0.20	0.036	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Calcium	<20		20	3.4	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Copper	0.316	J	1.0	0.28	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Iron	<20		20	10	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Lead	<0.50		0.50	0.23	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Magnesium	<10		10	5.0	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Potassium	<50		50	18	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Silver	<0.50		0.50	0.13	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Sodium	<100		100	15	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/26/23 09:39	06/06/23 15:52	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/26/23 09:39	06/06/23 15:52	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715485/2-A
Matrix: Solid
Analysis Batch: 717268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	49.5		mg/Kg		99	80 - 120
Arsenic	10.0	9.06		mg/Kg		91	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.74		mg/Kg		95	80 - 120
Boron	100	89.2		mg/Kg		89	80 - 120
Cadmium	5.00	4.90		mg/Kg		98	80 - 120
Calcium	1000	862		mg/Kg		86	80 - 120
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	25.0	25.2		mg/Kg		101	80 - 120
Iron	100	91.5		mg/Kg		91	80 - 120
Lead	10.0	9.57		mg/Kg		96	80 - 120
Magnesium	1000	911		mg/Kg		91	80 - 120
Manganese	50.0	44.7		mg/Kg		89	80 - 120
Nickel	50.0	48.7		mg/Kg		97	80 - 120
Potassium	1000	1030		mg/Kg		103	80 - 120
Selenium	10.0	8.57		mg/Kg		86	80 - 120
Silver	5.00	4.54		mg/Kg		91	80 - 120
Sodium	1000	1050		mg/Kg		105	80 - 120
Thallium	10.0	9.37		mg/Kg		94	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120
Zinc	50.0	45.5		mg/Kg		91	80 - 120

Lab Sample ID: LCS 500-715578/2-A
Matrix: Solid
Analysis Batch: 716049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.500		mg/L		100	80 - 120
Beryllium	0.0500	0.0516		mg/L		103	80 - 120
Boron	1.00	0.932		mg/L		93	80 - 120
Cadmium	0.0500	0.0528		mg/L		106	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.521		mg/L		104	80 - 120
Lead	0.100	0.0920		mg/L		92	80 - 120
Manganese	0.500	0.495		mg/L		99	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.111		mg/L		111	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Zinc	0.500	0.597		mg/L		119	80 - 120

Lab Sample ID: LCS 500-715578/2-A
Matrix: Solid
Analysis Batch: 716112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.04		mg/L		104	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715582/2-A
Matrix: Solid
Analysis Batch: 716542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.475		mg/L		95	80 - 120

Lab Sample ID: LB 500-715317/1-C
Matrix: Solid
Analysis Batch: 716049

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 715578

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/26/23 16:41	05/30/23 20:42	1
Boron	<0.50		0.50	0.050	mg/L		05/26/23 16:41	05/30/23 20:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/26/23 16:41	05/30/23 20:42	1
Chromium	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Cobalt	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Iron	<0.40		0.40	0.20	mg/L		05/26/23 16:41	05/30/23 20:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/26/23 16:41	05/30/23 20:42	1
Manganese	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Nickel	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Selenium	0.0283	J	0.050	0.020	mg/L		05/26/23 16:41	05/30/23 20:42	1
Silver	<0.025		0.025	0.010	mg/L		05/26/23 16:41	05/30/23 20:42	1
Zinc	0.0313	J	0.50	0.020	mg/L		05/26/23 16:41	05/30/23 20:42	1

Lab Sample ID: LB 500-715305/1-B
Matrix: Solid
Analysis Batch: 716542

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 715582

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		05/26/23 16:43	06/01/23 20:05	1

Lab Sample ID: 500-234079-8 MS
Matrix: Solid
Analysis Batch: 716542

Client Sample ID: 3359V-01-B01 (0-2)
Prep Type: SPLP East
Prep Batch: 715582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.0		0.500	1.55		mg/L		110	75 - 125

Lab Sample ID: 500-234079-8 DU
Matrix: Solid
Analysis Batch: 716542

Client Sample ID: 3359V-01-B01 (0-2)
Prep Type: SPLP East
Prep Batch: 715582

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	1.0		1.02		mg/L		2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 500-715578/2-A
Matrix: Solid
Analysis Batch: 717261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	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-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: LCS 500-715578/2-A
Matrix: Solid
Analysis Batch: 717261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.0948		mg/L		95	80 - 120

Lab Sample ID: LB 500-715317/1-C
Matrix: Solid
Analysis Batch: 717261

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 715578

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/26/23 16:41	06/06/23 20:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/26/23 16:41	06/06/23 20:54	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-716026/12-A
Matrix: Solid
Analysis Batch: 716328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/31/23 10:05	06/01/23 09:49	1

Lab Sample ID: LCS 500-716026/14-A
Matrix: Solid
Analysis Batch: 716328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00194		mg/L		98	80 - 120

Lab Sample ID: LB 500-715317/1-F
Matrix: Solid
Analysis Batch: 716328

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 716026

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/31/23 10:05	06/01/23 09:56	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-716246/12-A
Matrix: Solid
Analysis Batch: 716551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		06/01/23 14:00	06/02/23 08:17	1

Lab Sample ID: LCS 500-716246/13-A
Matrix: Solid
Analysis Batch: 716551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.166		mg/Kg		101	80 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

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

Lab Sample ID: MB 500-716247/12-A
Matrix: Solid
Analysis Batch: 716551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		06/01/23 14:00	06/02/23 09:12	1

Lab Sample ID: LCS 500-716247/13-A
Matrix: Solid
Analysis Batch: 716551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.167		mg/Kg		101	80 - 120

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:12
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 20:48
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 20:58
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:00
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:11
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B02 (0-6)

Lab Sample ID: 500-234079-1

Date Collected: 05/19/23 10:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 16:37
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 11:59
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:24
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:02
Total/NA	Prep	7471B			716246	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:04

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:16
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 20:52
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:00

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:02
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:14
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B02 (6-11)

Lab Sample ID: 500-234079-2

Date Collected: 05/19/23 10:30

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 17:02
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 13:08
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:34
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:05
Total/NA	Prep	7471B			716246	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:06

Client Sample ID: 3359V-04-B01 (0-6)

Lab Sample ID: 500-234079-3

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 20:55
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:02
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:04
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:16
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B01 (0-6)

Lab Sample ID: 500-234079-3

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 17:26
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 13:36
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:38
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:09
Total/NA	Prep	7471B			716246	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:08

Client Sample ID: 3359V-04-B01 (0-6) DUP

Lab Sample ID: 500-234079-4

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:19
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 20:58
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:04
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:06
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:19
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B01 (0-6) DUP

Lab Sample ID: 500-234079-4

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 17:50
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 13:57
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:41
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:12

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B01 (0-6) DUP

Lab Sample ID: 500-234079-4

Date Collected: 05/19/23 11:10

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			716246	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:10

Client Sample ID: 3359V-04-B01 (6-11)

Lab Sample ID: 500-234079-5

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:22
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 21:01
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:06
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:09
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:21
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B01 (6-11)

Lab Sample ID: 500-234079-5

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 18:15
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 14:19
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:45
Total/NA	Prep	7471B			716247	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:22

Client Sample ID: 3359V-04-B01 (6-11) DUP

Lab Sample ID: 500-234079-6

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:26

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-04-B01 (6-11) DUP

Lab Sample ID: 500-234079-6

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 21:05
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:08
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:11
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:24
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-04-B01 (6-11) DUP

Lab Sample ID: 500-234079-6

Date Collected: 05/19/23 11:20

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 18:39
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 14:40
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:48
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:16
Total/NA	Prep	7471B			716247	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:24

Client Sample ID: 3359V-05-B01 (0-5)

Lab Sample ID: 500-234079-7

Date Collected: 05/19/23 11:40

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:29
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 21:08
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:10
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:13

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-05-B01 (0-5)

Lab Sample ID: 500-234079-7

Date Collected: 05/19/23 11:40

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:26
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Client Sample ID: 3359V-05-B01 (0-5)

Lab Sample ID: 500-234079-7

Date Collected: 05/19/23 11:40

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 19:04
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 15:02
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:52
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		5	717495	CMS	EET CHI	06/07/23 16:19
Total/NA	Prep	7471B			716247	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:25

Client Sample ID: 3359V-01-B01 (0-2)

Lab Sample ID: 500-234079-8

Date Collected: 05/19/23 12:00

Matrix: Solid

Date Received: 05/19/23 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			715305	LM	EET CHI	05/25/23 16:30 - 05/26/23 08:30 ¹
SPLP East	Prep	3010A			715582	RN	EET CHI	05/26/23 16:43 - 05/26/23 17:13 ¹
SPLP East	Analysis	6010B		1	716542	FXG	EET CHI	06/01/23 20:40
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6010B		1	716049	CMS	EET CHI	05/30/23 21:11
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	3010A			715578	RN	EET CHI	05/26/23 16:41 - 05/26/23 17:11 ¹
TCLP	Analysis	6020B		1	717261	FXG	EET CHI	06/06/23 21:12
TCLP	Leach	1311			715317	LM	EET CHI	05/25/23 17:30 - 05/26/23 09:30 ¹
TCLP	Prep	7470A			716026	MJG	EET CHI	05/31/23 10:05 - 05/31/23 12:05 ¹
TCLP	Analysis	7470A		1	716328	MJG	EET CHI	06/01/23 10:15
Total/NA	Analysis	9045D		1	715691	LWN	EET CHI	05/26/23 19:29
Total/NA	Analysis	Moisture		1	715315	LWN	EET CHI	05/25/23 14:35

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 19 - Palos Park

Job ID: 500-234079-1

Client Sample ID: 3359V-01-B01 (0-2)

Lab Sample ID: 500-234079-8

Date Collected: 05/19/23 12:00

Matrix: Solid

Date Received: 05/19/23 15:10

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			714877	WRE	EET CHI	05/20/23 15:17
Total/NA	Analysis	8260B		1	715655	W1T	EET CHI	05/29/23 19:29
Total/NA	Prep	3541			715029	EK	EET CHI	05/24/23 12:54 - 05/24/23 19:00 ¹
Total/NA	Analysis	8270D		1	715936	JSB	EET CHI	05/31/23 16:06
Total/NA	Prep	3050B			715485	BDE	EET CHI	05/26/23 09:39 - 05/26/23 10:09 ¹
Total/NA	Analysis	6010B		1	717268	CMS	EET CHI	06/06/23 16:55
Total/NA	Prep	7471B			716247	MJG	EET CHI	06/01/23 14:00
Total/NA	Analysis	7471B		1	716551	MJG	EET CHI	06/02/23 09:27

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET 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-WO 19 - Palos Park

Job ID: 500-234079-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 641747

Environment Testing
ca

500-234079 COC

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: D. Tiebout		Site Contact: T. Trujnar		Date: 5-19-23		COC No:																					
Company Name: WSP		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs																					
Address: 30 N LaSalle		Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		PH		% Solids		VOCs		SVOCs		Total Metals		TCLP *											
City/State/Zip: Chicago IL																													
Phone:																													
Fax:																													
Project Name: DOT WSP11 W019 - Palos Park																													
Site: 31403035.019																													
PO#:																													
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.																							
1 3359V-04-Boz (0-6)		5-19-23	1020	C	S	2				X	X	X	X	X	X														
2 3359V-04-Boz (6-11)		5-19-23	1030	C	S	2				X	X	X	X	X	X														
3 3359V-04-Boz (0-6)		5-19-23	1110	C	S	2				X	X	X	X	X	X														
4 3359V-04-Boz (0-6) Dup		5-19-23	1110	C	S	2				X	X	X	X	X	X														
5 3359V-04-Boz (6-11)		5-19-23	1120	C	S	2				X	X	X	X	X	X														
6 3359V-04-Boz (6-11) Dup		5-19-23	1120	C	S	2				X	X	X	X	X	X														
7 3359V-05-Boz (0-5)		5-19-23	1140	C	S	2				X	X	X	X	X	X														
8 3359V-01-Boz (0-2)		5-19-23	1200	C	S	2				X	X	X	X	X	X														
T. Trujnar																													
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																													
* SPLP analysis based on TCLP results																													
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No					Cooler Temp (°C) Obs'd <u>6.1</u> Corr'd <u>6.0</u>					Therm ID No _____														
Relinquished by: <u>[Signature]</u>					Company: <u>WSP</u>					Date/Time: <u>5-19-23 1510</u>					Received by: <u>[Signature]</u>					Company: <u>EETA</u>					Date/Time: <u>5/19/23 1510</u>				
Relinquished by:					Company:					Date/Time:					Received by:					Company:					Date/Time:				
Relinquished by:					Company:					Date/Time:					Received in Laboratory by:					Company:					Date/Time:				

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-234079-1

Login Number: 234079

List Number: 1

Creator: Berg, Nicole M

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	6.1-6.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

