



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 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Barrington Road (Southbound) IDOT STA 67+80 to 69+64 (ISGS Site 3972-COV-3),

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Hanover

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

Latitude: 42.00731 Longitude: -88.14485

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 105

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 3972-COV-3. See Exhibit 3 and Table 1 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192809-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-3)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-3-B01 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/18/2020
Semivolatile Organic Analytical Parameters						
Anthracene	mg/kg	0.25	0.4	12000		0.032
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.20
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.28
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.39
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.13
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.17
Chrysene	mg/kg	1.2	2.7	88		0.23
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.031
Fluoranthene	mg/kg	2.7	4.1	3100		0.42
Fluorene	mg/kg	0.1	0.18	560		0.0081
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.12
Phenanthrene	mg/kg	1.3	2.5	210		0.16
Pyrene	mg/kg	1.9	3.0	2300		0.35
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		6.0
Barium	mg/kg	---	110	1500		71
Cadmium	mg/kg	---	0.6	5.2		0.094
Chromium, total	mg/kg	---	16.2	21		14
Lead	mg/kg	---	36	107		24
Mercury	mg/kg	---	0.06	0.89		0.082
Selenium	mg/kg	---	0.48	1.3		0.38
Silver	mg/kg	---	0.55	4.4		0.23
Antimony	mg/kg	---	4.0	5		<0.22
Beryllium	mg/kg	---	0.59	22		0.55
Calcium	mg/kg	---	9,300	---		51000
Cobalt	mg/kg	---	8.9	20		9.1
Copper	mg/kg	---	19.6	2900		18
Cyanide	mg/kg	---	0.51	---		0.18
Iron	mg/kg	---	15,900	15000		14000
Magnesium	mg/kg	---	4,820	325000		23000
Manganese	mg/kg	---	636	630		320
Nickel	mg/kg	---	18	100		23
Potassium	mg/kg	---	1,268	---		1700
Sodium	mg/kg	---	130	---		250
Thallium	mg/kg	---	0.32	2.6		<0.28
Vanadium	mg/kg	---	25.2	550		22
Zinc	mg/kg	---	95	5100		63
pH			6.25	9		8.2

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-3)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-3-B01 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/18/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		0.24
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.65
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		400
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		53
Manganese,TCLP	mg/L	---	---	---		3.2
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		3.1
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192809-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
1/6/2021 10:57:00 AM

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

LINKS

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Job ID: 500-192809-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192809-1

Receipt

The sample was received on 12/18/2020 5:50 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-578962 was outside the method criteria for the following analyte(s): Bis(2-chloroethoxy)methane, Hexachlorobenzene, Hexachlorobutadiene and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

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

General Chemistry

Method 9012B: The matrix spike (MS) recovery for preparation batch 500-578662 and analytical batch 500-578717 was outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Client Sample ID: 3972-COV-3-B01 (0-3)

Lab Sample ID: 500-192809-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.032	J	0.040	0.0067	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.20		0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.28		0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.39		0.040	0.0086	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.23		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.031	J	0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.42		0.040	0.0074	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0081	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.16		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.35		0.040	0.0079	mg/Kg	1	✳	8270D	Total/NA
Arsenic	6.0		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	71		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.55		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.094	J	0.11	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	14		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.1		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	18		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	14000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	24		0.57	0.26	mg/Kg	2	✳	6010B	Total/NA
Magnesium	23000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	51000	B	23	3.9	mg/Kg	2	✳	6010B	Total/NA
Manganese	320		0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	23		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.38	J	0.57	0.34	mg/Kg	1	✳	6010B	Total/NA
Silver	0.23	J B	0.29	0.074	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.29	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	63		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Potassium	1700	B	29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	250		57	8.4	mg/L	1	✳	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	53		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.082		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.18	J F1	0.28	0.14	mg/Kg	1	✳	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Client Sample ID: 3972-COV-3-B01 (0-3)

Lab Sample ID: 500-192809-1

Date Collected: 12/18/20 08:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0075		0.017	0.0075	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Carbon disulfide	<0.00089		0.0043	0.00089	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Chlorobenzene	<0.00063		0.0017	0.00063	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
1,3-Dichloropropene, Total	<0.00060		0.0017	0.00060	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Tetrachloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
trans-1,3-Dichloropropene	<0.00060		0.0017	0.00060	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	12/19/20 16:35	12/28/20 18:46	1
Dibromofluoromethane	102		75 - 126	12/19/20 16:35	12/28/20 18:46	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	12/19/20 16:35	12/28/20 18:46	1
Toluene-d8 (Surr)	92		75 - 124	12/19/20 16:35	12/28/20 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.040	0.0072	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Anthracene	0.032	J	0.040	0.0067	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Benzo[a]anthracene	0.20		0.040	0.0054	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Client Sample ID: 3972-COV-3-B01 (0-3)

Lab Sample ID: 500-192809-1

Date Collected: 12/18/20 08:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.28		0.040	0.0077	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Benzo[b]fluoranthene	0.39		0.040	0.0086	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Benzo[g,h,i]perylene	0.13		0.040	0.013	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Benzo[k]fluoranthene	0.17		0.040	0.012	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Chrysene	0.23		0.040	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Dibenz(a,h)anthracene	0.031 J		0.040	0.0077	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Fluoranthene	0.42		0.040	0.0074	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Fluorene	0.0081 J		0.040	0.0056	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Indeno[1,2,3-cd]pyrene	0.12		0.040	0.010	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	12/28/20 17:18	12/29/20 15:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Client Sample ID: 3972-COV-3-B01 (0-3)

Lab Sample ID: 500-192809-1

Date Collected: 12/18/20 08:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
Phenanthrene	0.16		0.040	0.0056	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
Phenol	<0.088		0.20	0.088	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
Pyrene	0.35		0.040	0.0079	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	✳	12/28/20 17:18	12/29/20 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	12/28/20 17:18	12/29/20 15:30	1
2-Fluorophenol	80		31 - 166	12/28/20 17:18	12/29/20 15:30	1
Nitrobenzene-d5	84		37 - 147	12/28/20 17:18	12/29/20 15:30	1
Phenol-d5	81		30 - 153	12/28/20 17:18	12/29/20 15:30	1
Terphenyl-d14	90		42 - 157	12/28/20 17:18	12/29/20 15:30	1
2,4,6-Tribromophenol	95		31 - 143	12/28/20 17:18	12/29/20 15:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Arsenic	6.0		0.57	0.20	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Barium	71		0.57	0.065	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Beryllium	0.55		0.23	0.053	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Cadmium	0.094	J	0.11	0.021	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Chromium	14		0.57	0.28	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Cobalt	9.1		0.29	0.075	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Copper	18		0.57	0.16	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Iron	14000		11	5.9	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Lead	24		0.57	0.26	mg/Kg	✳	12/23/20 08:02	12/28/20 15:58	2
Magnesium	23000		5.7	2.8	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Calcium	51000	B	23	3.9	mg/Kg	✳	12/23/20 08:02	12/28/20 15:58	2
Manganese	320		0.57	0.083	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Nickel	23		0.57	0.17	mg/Kg	✳	12/23/20 08:02	12/28/20 15:55	1
Selenium	0.38	J	0.57	0.34	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Silver	0.23	J B	0.29	0.074	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Thallium	<0.28		0.57	0.28	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Vanadium	22		0.29	0.067	mg/Kg	✳	12/23/20 08:02	12/28/20 15:55	1
Zinc	63		1.1	0.50	mg/Kg	✳	12/23/20 08:02	12/28/20 15:55	1
Potassium	1700	B	29	10	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1
Sodium	250		57	8.4	mg/Kg	✳	12/23/20 08:02	12/24/20 20:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 22:54	1
Barium	0.65		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 22:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 22:54	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 22:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Client Sample ID: 3972-COV-3-B01 (0-3)

Lab Sample ID: 500-192809-1

Date Collected: 12/18/20 08:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 22:54	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:54	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:54	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:54	1
Iron	<0.20		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 22:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 22:54	1
Magnesium	53		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:54	1
Manganese	3.2		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:54	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:54	1
Potassium	3.1		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:54	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 22:54	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:54	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:54	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:33	12/31/20 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24		0.025	0.010	mg/L		12/30/20 17:37	12/31/20 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.082		0.019	0.0063	mg/Kg	✱	12/24/20 11:35	12/28/20 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.18	J F1	0.28	0.14	mg/Kg	✱	12/28/20 10:55	12/28/20 12:45	1
pH	8.2		0.2	0.2	SU			12/23/20 16:20	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192809-1	3972-COV-3-B01 (0-3)	86	102	104	92
LCS 500-578587/4	Lab Control Sample	83	93	86	96
LCSD 500-578587/5	Lab Control Sample Dup	75	93	88	111
MB 500-578587/7	Method Blank	87	96	89	94

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192809-1	3972-COV-3-B01 (0-3)	85	80	84	81	90	95
LCS 500-578747/2-A	Lab Control Sample	101	103	102	98	91	105
MB 500-578747/1-A	Method Blank	96	93	98	93	97	97

Surrogate Legend

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Lab Sample ID: MB 500-578587/7

Matrix: Solid

Analysis Batch: 578587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/28/20 11:15	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/28/20 11:15	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/28/20 11:15	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/28/20 11:15	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/28/20 11:15	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/28/20 11:15	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/28/20 11:15	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/28/20 11:15	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/28/20 11:15	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/28/20 11:15	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/28/20 11:15	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/28/20 11:15	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/28/20 11:15	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/28/20 11:15	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/28/20 11:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	87		75 - 131		12/28/20 11:15	1
Dibromofluoromethane	96		75 - 126		12/28/20 11:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		12/28/20 11:15	1
Toluene-d8 (Surr)	94		75 - 124		12/28/20 11:15	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Lab Sample ID: LCS 500-578587/4

Matrix: Solid

Analysis Batch: 578587

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	0.0432		mg/Kg		86	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0444		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0508		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0469		mg/Kg		94	70 - 130
2-Butanone (MEK)	0.0500	0.0383		mg/Kg		77	47 - 138
Carbon disulfide	0.0500	0.0425		mg/Kg		85	70 - 129
Carbon tetrachloride	0.0500	0.0436		mg/Kg		87	75 - 125
Chlorobenzene	0.0500	0.0464		mg/Kg		93	50 - 150
Chloroethane	0.0500	0.0472		mg/Kg		94	75 - 125
Chloroform	0.0500	0.0439		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0389		mg/Kg		78	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0427		mg/Kg		85	70 - 125
1,2-Dichloroethane	0.0500	0.0419		mg/Kg		84	70 - 130
1,1-Dichloroethene	0.0500	0.0432		mg/Kg		86	70 - 120
1,2-Dichloropropane	0.0500	0.0444		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0477		mg/Kg		95	61 - 136
2-Hexanone	0.0500	0.0441		mg/Kg		88	48 - 146
Methylene Chloride	0.0500	0.0438		mg/Kg		88	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0435		mg/Kg		87	50 - 148
Methyl tert-butyl ether	0.0500	0.0402		mg/Kg		80	50 - 140
Styrene	0.0500	0.0456		mg/Kg		91	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0417		mg/Kg		83	70 - 122
Tetrachloroethene	0.0500	0.0507		mg/Kg		101	70 - 124
Toluene	0.0500	0.0443		mg/Kg		89	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0437		mg/Kg		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,1-Trichloroethane	0.0500	0.0428		mg/Kg		86	70 - 128
1,1,2-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 125
Trichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0416		mg/Kg		83	40 - 153
Vinyl chloride	0.0500	0.0375		mg/Kg		75	70 - 125
Xylenes, Total	0.100	0.0858		mg/Kg		86	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	83		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Lab Sample ID: LCSD 500-578587/5

Matrix: Solid

Analysis Batch: 578587

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	0.0412		mg/Kg		82	40 - 150	5	30
Benzene	0.0500	0.0451		mg/Kg		90	70 - 125	4	30
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	67 - 129	2	30
Bromoform	0.0500	0.0544		mg/Kg		109	68 - 136	7	30
Bromomethane	0.0500	0.0440		mg/Kg		88	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0406		mg/Kg		81	47 - 138	6	30
Carbon disulfide	0.0500	0.0446		mg/Kg		89	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0453		mg/Kg		91	75 - 125	4	30
Chlorobenzene	0.0500	0.0472		mg/Kg		94	50 - 150	2	30
Chloroethane	0.0500	0.0469		mg/Kg		94	75 - 125	1	30
Chloroform	0.0500	0.0458		mg/Kg		92	57 - 135	4	30
Chloromethane	0.0500	0.0408		mg/Kg		82	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 125	5	30
cis-1,3-Dichloropropene	0.0500	0.0538		mg/Kg		108	70 - 125	16	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0421		mg/Kg		84	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0466		mg/Kg		93	70 - 125	5	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136	4	30
2-Hexanone	0.0500	0.0486		mg/Kg		97	48 - 146	10	30
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	12	30
Methyl tert-butyl ether	0.0500	0.0421		mg/Kg		84	50 - 140	5	30
Styrene	0.0500	0.0470		mg/Kg		94	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0366		mg/Kg		73	70 - 122	13	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	16	30
Toluene	0.0500	0.0526		mg/Kg		105	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0468		mg/Kg		94	70 - 125	7	30
trans-1,3-Dichloropropene	0.0500	0.0525		mg/Kg		105	70 - 125	19	30
1,1,1-Trichloroethane	0.0500	0.0448		mg/Kg		90	70 - 128	5	30
1,1,2-Trichloroethane	0.0500	0.0570		mg/Kg		114	70 - 125	16	30
Trichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125	0	30
Vinyl acetate	0.0500	0.0355		mg/Kg		71	40 - 153	16	30
Vinyl chloride	0.0500	0.0399		mg/Kg		80	70 - 125	6	30
Xylenes, Total	0.100	0.0894		mg/Kg		89	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	75		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	88		70 - 134
Toluene-d8 (Surr)	111		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Lab Sample ID: MB 500-578747/1-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 578747

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Lab Sample ID: MB 500-578747/1-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	12/28/20 17:18	12/29/20 11:49	1
2-Fluorophenol	93		31 - 166	12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene-d5	98		37 - 147	12/28/20 17:18	12/29/20 11:49	1
Phenol-d5	93		30 - 153	12/28/20 17:18	12/29/20 11:49	1
Terphenyl-d14	97		42 - 157	12/28/20 17:18	12/29/20 11:49	1
2,4,6-Tribromophenol	97		31 - 143	12/28/20 17:18	12/29/20 11:49	1

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.18		mg/Kg		88	68 - 120
Anthracene	1.33	1.17		mg/Kg		88	70 - 114
Benzo[a]anthracene	1.33	1.11		mg/Kg		83	67 - 122
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.26		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.33		mg/Kg		100	72 - 131
Benzo[k]fluoranthene	1.33	1.24		mg/Kg		93	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		83	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.15		mg/Kg		87	72 - 131
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.13		mg/Kg		85	71 - 129
Carbazole	1.33	1.27		mg/Kg		95	65 - 142
4-Chloroaniline	1.33	1.20		mg/Kg		90	30 - 150
4-Chloro-3-methylphenol	1.33	1.36		mg/Kg		102	65 - 122
2-Chloronaphthalene	1.33	1.22		mg/Kg		92	69 - 114
2-Chlorophenol	1.33	1.19		mg/Kg		89	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Lab Sample ID: LCS 500-578747/2-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.26		mg/Kg		95	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.32		mg/Kg		99	64 - 131
Dibenzofuran	1.33	1.27		mg/Kg		95	66 - 115
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	62 - 110
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.06		mg/Kg		80	61 - 110
3,3'-Dichlorobenzidine	1.33	0.934		mg/Kg		70	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.31		mg/Kg		98	58 - 120
2,4-Dimethylphenol	1.33	1.32		mg/Kg		99	60 - 110
Dimethyl phthalate	1.33	1.22		mg/Kg		92	69 - 116
Di-n-butyl phthalate	1.33	1.25		mg/Kg		93	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.807		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		19	10 - 100
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	69 - 124
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		89	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.23		mg/Kg		93	62 - 120
Hexachlorobenzene	1.33	1.25		mg/Kg		94	63 - 124
Hexachlorobutadiene	1.33	1.30		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.659	J	mg/Kg		49	10 - 133
Hexachloroethane	1.33	1.19		mg/Kg		89	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.31		mg/Kg		99	68 - 130
Isophorone	1.33	1.22		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.23		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.26		mg/Kg		95	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		94	57 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2-Nitroaniline	1.33	1.45		mg/Kg		109	57 - 124
3-Nitroaniline	1.33	1.03		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.00		mg/Kg		75	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		87	60 - 120
4-Nitrophenol	2.67	3.05		mg/Kg		114	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.40		mg/Kg		105	40 - 124
Pentachlorophenol	2.67	1.81		mg/Kg		68	13 - 112
Phenanthrene	1.33	1.21		mg/Kg		91	62 - 120
Phenol	1.33	1.30		mg/Kg		97	56 - 122
Pyrene	1.33	1.10		mg/Kg		83	61 - 128
1,2,4-Trichlorobenzene	1.33	1.22		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	101		43 - 145
2-Fluorophenol	103		31 - 166
Nitrobenzene-d5	102		37 - 147
Phenol-d5	98		30 - 153
Terphenyl-d14	91		42 - 157
2,4,6-Tribromophenol	105		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578221/1-A
Matrix: Solid
Analysis Batch: 578658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578221

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Barium	<0.11		1.0	0.11	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Copper	<0.28		1.0	0.28	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Iron	<10		20	10	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Lead	<0.23		0.50	0.23	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Magnesium	<5.0		10	5.0	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Calcium	<3.4		20	3.4	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Silver	0.131	J	0.50	0.13	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Potassium	19.6	J	50	18	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Sodium	<15		100	15	mg/Kg		12/23/20 08:02	12/24/20 19:16	1

Lab Sample ID: MB 500-578221/1-A
Matrix: Solid
Analysis Batch: 578790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578221

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nickel	<0.29		1.0	0.29	mg/Kg		12/23/20 08:02	12/28/20 15:19	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/23/20 08:02	12/28/20 15:19	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/23/20 08:02	12/28/20 15:19	1

Lab Sample ID: LCS 500-578221/2-A
Matrix: Solid
Analysis Batch: 578658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578221

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	50.0	44.6		mg/Kg		89	80 - 120
Arsenic	10.0	9.55		mg/Kg		96	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Lab Sample ID: LCS 500-578221/2-A
Matrix: Solid
Analysis Batch: 578658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.57		mg/Kg		91	80 - 120
Cadmium	5.00	4.61		mg/Kg		92	80 - 120
Chromium	20.0	18.3		mg/Kg		92	80 - 120
Cobalt	50.0	47.2		mg/Kg		94	80 - 120
Copper	25.0	24.1		mg/Kg		96	80 - 120
Iron	100	99.5		mg/Kg		100	80 - 120
Lead	10.0	9.14		mg/Kg		91	80 - 120
Magnesium	1000	882		mg/Kg		88	80 - 120
Calcium	1000	916		mg/Kg		92	80 - 120
Manganese	50.0	45.1		mg/Kg		90	80 - 120
Selenium	10.0	8.32		mg/Kg		83	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Thallium	10.0	9.62		mg/Kg		96	80 - 120
Potassium	1000	945		mg/Kg		95	80 - 120
Sodium	1000	953		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-578221/2-A
Matrix: Solid
Analysis Batch: 578790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.0		mg/Kg		92	80 - 120

Lab Sample ID: LCS 500-579183/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.489	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0470		mg/L		94	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.209		mg/L		104	80 - 120
Cobalt	0.500	0.525		mg/L		105	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	8.94		mg/L		89	80 - 120
Calcium	10.0	9.53		mg/L		95	80 - 120
Manganese	0.500	0.457		mg/L		91	80 - 120
Nickel	0.500	0.521		mg/L		104	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Silver	0.0500	0.0548		mg/L		110	80 - 120
Vanadium	0.500	0.530		mg/L		106	80 - 120
Zinc	0.500	0.574		mg/L		115	80 - 120
Potassium	10.0	10.9		mg/L		109	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

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

Lab Sample ID: LCS 500-579185/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579185
%Rec.

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

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Barium	<0.050		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 22:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 22:03	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Iron	<0.20		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 22:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 22:03	1
Magnesium	<0.50		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1
Calcium	<0.50		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Potassium	<0.50		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1

Lab Sample ID: LB 500-579025/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579185

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:37	12/31/20 23:42	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579183/2-A
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579183
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.477		mg/L		95	80 - 120
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:03	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579156/12-A
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 579156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:40	1

Lab Sample ID: LCS 500-579156/14-A
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00203		mg/L		101	80 - 120

Lab Sample ID: LB 500-579022/2-B
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:42	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578500/12-A
 Matrix: Solid
 Analysis Batch: 578666

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/24/20 11:35	12/28/20 09:21	1

Lab Sample ID: LCS 500-578500/13-A
 Matrix: Solid
 Analysis Batch: 578666

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.184		mg/Kg		110	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578662/1-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/28/20 10:55	12/28/20 12:39	1

Lab Sample ID: HLCS 500-578662/2-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.3		mg/Kg		102	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 500-578662/3-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.65		mg/Kg		110	85 - 115

Lab Sample ID: LLCS 500-578662/4-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.40		mg/Kg		117	75 - 125

Lab Sample ID: 500-192809-1 MS
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: 3972-COV-3-B01 (0-3)
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.18	J F1	1.37	1.11	F1	mg/Kg	✳	68	75 - 125

Lab Sample ID: 500-192809-1 MSD
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: 3972-COV-3-B01 (0-3)
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	0.18	J F1	1.38	1.25		mg/Kg	✳	77	75 - 125	12	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

GC/MS VOA

Prep Batch: 578399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 578587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	8260B	578399
MB 500-578587/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578587/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578587/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	3541	
MB 500-578747/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 578863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	8270D	578747
MB 500-578747/1-A	Method Blank	Total/NA	Solid	8270D	578747
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	8270D	578747

Metals

Prep Batch: 578221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	3050B	
MB 500-578221/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578221/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 578500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	7471B	
MB 500-578500/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578500/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 578658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	6010B	578221
MB 500-578221/1-A	Method Blank	Total/NA	Solid	6010B	578221
LCS 500-578221/2-A	Lab Control Sample	Total/NA	Solid	6010B	578221

Analysis Batch: 578666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	7471B	578500
MB 500-578500/12-A	Method Blank	Total/NA	Solid	7471B	578500
LCS 500-578500/13-A	Lab Control Sample	Total/NA	Solid	7471B	578500

Analysis Batch: 578790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	6010B	578221

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Metals (Continued)

Analysis Batch: 578790 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	6010B	578221
MB 500-578221/1-A	Method Blank	Total/NA	Solid	6010B	578221
LCS 500-578221/2-A	Lab Control Sample	Total/NA	Solid	6010B	578221

Leach Batch: 579022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	TCLP	Solid	1311	
LB 500-579022/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579022/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 579025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	SPLP East	Solid	1312	
LB 500-579025/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 579156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	TCLP	Solid	7470A	579022
LB 500-579022/2-B	Method Blank	TCLP	Solid	7470A	579022
MB 500-579156/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579156/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	TCLP	Solid	3010A	579022
LB 500-579022/1-B	Method Blank	TCLP	Solid	3010A	579022
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 579185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	SPLP East	Solid	3010A	579025
LB 500-579025/1-B	Method Blank	SPLP East	Solid	3010A	579025
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	TCLP	Solid	7470A	579156
LB 500-579022/2-B	Method Blank	TCLP	Solid	7470A	579156
MB 500-579156/12-A	Method Blank	Total/NA	Solid	7470A	579156
LCS 500-579156/14-A	Lab Control Sample	Total/NA	Solid	7470A	579156

Analysis Batch: 579325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	TCLP	Solid	6020A	579183
LB 500-579022/1-B	Method Blank	TCLP	Solid	6020A	579183
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	6020A	579183

Analysis Batch: 579387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	SPLP East	Solid	6010B	579185
500-192809-1	3972-COV-3-B01 (0-3)	TCLP	Solid	6010B	579183

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Metals (Continued)

Analysis Batch: 579387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-579022/1-B	Method Blank	TCLP	Solid	6010B	579183
LB 500-579025/1-B	Method Blank	SPLP East	Solid	6010B	579185
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	6010B	579183
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	6010B	579185

General Chemistry

Analysis Batch: 578082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	9010C	
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9010C	
500-192809-1 MS	3972-COV-3-B01 (0-3)	Total/NA	Solid	9010C	
500-192809-1 MSD	3972-COV-3-B01 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 578717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192809-1	3972-COV-3-B01 (0-3)	Total/NA	Solid	9012B	578662
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9012B	578662
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9012B	578662
500-192809-1 MS	3972-COV-3-B01 (0-3)	Total/NA	Solid	9012B	578662
500-192809-1 MSD	3972-COV-3-B01 (0-3)	Total/NA	Solid	9012B	578662

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Client Sample ID: 3972-COV-3-B01 (0-3)

Lab Sample ID: 500-192809-1

Date Collected: 12/18/20 08:15

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579025	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579185	12/30/20 17:37	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	12/31/20 23:52	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 22:54	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:09	FXG	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:53	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:20	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578082	12/22/20 15:04	LWN	TAL CHI

Client Sample ID: 3972-COV-3-B01 (0-3)

Lab Sample ID: 500-192809-1

Date Collected: 12/18/20 08:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 18:46	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578863	12/29/20 15:30	AJD	TAL CHI
Total/NA	Prep	3050B			578221	12/23/20 08:02	LMN	TAL CHI
Total/NA	Analysis	6010B		1	578658	12/24/20 20:11	EEN	TAL CHI
Total/NA	Prep	3050B			578221	12/23/20 08:02	LMN	TAL CHI
Total/NA	Analysis	6010B		1	578790	12/28/20 15:55	EEN	TAL CHI
Total/NA	Prep	3050B			578221	12/23/20 08:02	LMN	TAL CHI
Total/NA	Analysis	6010B		2	578790	12/28/20 15:58	EEN	TAL CHI
Total/NA	Prep	7471B			578500	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 10:03	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 12:45	PSP	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192809-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192809-1	3972-COV-3-B01 (0-3)	Solid	12/18/20 08:15	12/18/20 17:50	

1

2

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10

11

12

13

14

15

Chain of Custody Record 497497



Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>Terracon</u> Address: <u>192 Elchome Blvd</u> City/State/Zip: <u>Caladale Heights, IL</u> Phone: <u>630-445-0100</u> Fax: _____ Project Name: <u>11207011W</u> Site: <u>11207011W</u> P O #: _____		Project Manager: <u>Rich O'Brien</u> Tel/Email: <u>M.H. Walsby@Terracon.com</u> Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" 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		Site Contact: _____ Lab Contact: _____ Date: <u>12/18/20</u> Carrier: _____		COC No: _____ of _____ COCs Sampler: <u>D. G. PL</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-192809</u>									
Sample Identification <u>3972-COIL-3-B01 (0-3)</u>		Sample Date: <u>12/18/20</u>	Sample Time: <u>0815</u>	Sample Type (C=Comp, G=Grab): <u>G</u>	Matrix: <u>Soil</u>	# of Cont.: <u>6</u>	Filtered Sample (Y/N): <u>N</u>	Perform MS / MSD (Y/N): <u>N</u>	Vocs: <u>X</u>	SVOCs: <u>X</u>	Total PCB Inorganics / pH: <u>X</u>	TCLP 23 Inorganics: <u>X</u>	SPLP 23 Inorganics: <u>X</u>	500-192809 COC	Sample Specific Notes: _____
		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 checked="" 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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: <u>*No Aluminum</u> <u>*Hold SPLP 23 Inorganics Per Terracon Instructions</u>															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temp. (°C): Obs'd: <u>2.9</u> Corr'd: <u>0.6</u>		Therm ID No.: _____									
Relinquished by: <u>[Signature]</u>		Company: <u>Terracon</u>		Date/Time: <u>12/15/2020</u>		Received by: <u>[Signature]</u>		Company: <u>ETA</u>		Date/Time: <u>12/18/20 1600</u>					
Relinquished by: <u>[Signature]</u>		Company: <u>ETA</u>		Date/Time: <u>12/18/20</u>		Received by: _____		Company: _____		Date/Time: _____					
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>Stephanie Hemondery</u>		Company: <u>ETA-CHI</u>		Date/Time: <u>12/18/20 1750</u>					

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192809-1

Login Number: 192809

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Barrington Road (Northbound) IDOT STA 66+40 to 68+05 (ISGS Site 3972-COV-5)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Schaumburg

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

Latitude: 42.00688 Longitude: -88.14458

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 210

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 3972-COV-5. See Exhibits 2 and 3 and Table 5 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192715-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



[Empty box for P.E. or L.P.G. Seal]

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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-5)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-5-B01 (0-2)
		Chicago	MSAs		Sample Depth (feet)	(0-2)
					Date Collected	12/17/2020
Volatile Organic Analytical Parameters						
Acetone	mg/kg	---	---	25		0.029
2-Butanone	mg/kg	---	---	17		0.0071
Semivolatile Organic Analytical Parameters						
Anthracene	mg/kg	0.25	0.4	12000		0.032
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.18
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.21
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.32
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.084
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.11
Chrysene	mg/kg	1.2	2.7	88		0.20
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.012
Fluoranthene	mg/kg	2.7	4.1	3100		0.35
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.090
Phenanthrene	mg/kg	1.3	2.5	210		0.12
Pyrene	mg/kg	1.9	3.0	2300		0.30
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		5.8
Barium	mg/kg	---	110	1500		95
Cadmium	mg/kg	---	0.6	5.2		1.7
Chromium, total	mg/kg	---	16.2	21		30
Lead	mg/kg	---	36	107		96
Mercury	mg/kg	---	0.06	0.89		0.066
Selenium	mg/kg	---	0.48	1.3		0.62
Silver	mg/kg	---	0.55	4.4		0.63
Antimony	mg/kg	---	4.0	5		<0.25
Beryllium	mg/kg	---	0.59	22		0.78
Calcium	mg/kg	---	9,300	---		34000
Cobalt	mg/kg	---	8.9	20		9.1
Copper	mg/kg	---	19.6	2900		31
Cyanide	mg/kg	---	0.51	---		0.29
Iron	mg/kg	---	15,900	15000		18000
Magnesium	mg/kg	---	4,820	325000		20000
Manganese	mg/kg	---	636	630		280
Nickel	mg/kg	---	18	100		30
Potassium	mg/kg	---	1,268	---		2300
Sodium	mg/kg	---	130	---		2000
Thallium	mg/kg	---	0.32	2.6		0.41
Vanadium	mg/kg	---	25.2	550		30
Zinc	mg/kg	---	95	5100		130
pH			6.25	9		9.0

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-5)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-5-B01 (0-2)
		Chicago	MSAs		Sample Depth (feet)	(0-2)
					Date Collected	12/17/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		0.0091
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		0.62
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		1.6
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.49
Cadmium,TCLP	mg/L	---	---	---		0.0064
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		0.012
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		370
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		0.087
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		110
Manganese,TCLP	mg/L	---	---	---		2.4
Nickel,TCLP	mg/L	---	---	---		0.014
Potassium,TCLP	mg/L	---	---	---		2.6
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.13

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192715-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/30/2020 3:04:37 PM

Richard Wright, Senior Project Manager
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LINKS

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Job ID: 500-192715-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192715-1

Receipt

The samples were received on 12/17/2020 5:30 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.2° C and 1.1° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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



Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Client Sample ID: 3972-COV-5-B01 (0-2)

Lab Sample ID: 500-192715-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.029		0.020	0.0086	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0071		0.0049	0.0022	mg/Kg	1	✳	8260B	Total/NA
Anthracene	0.032	J	0.043	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.18		0.043	0.0058	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.21		0.043	0.0083	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.32		0.043	0.0093	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.084		0.043	0.014	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.043	0.013	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.20		0.043	0.012	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.043	0.0083	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.35		0.043	0.0080	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.090		0.043	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.12		0.043	0.0060	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.30		0.043	0.0085	mg/Kg	1	✳	8270D	Total/NA
Arsenic	5.8		0.63	0.22	mg/Kg	1	✳	6010B	Total/NA
Barium	95		0.63	0.072	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.78		0.25	0.059	mg/Kg	1	✳	6010B	Total/NA
Cadmium	1.7		0.13	0.023	mg/Kg	1	✳	6010B	Total/NA
Chromium	30		0.63	0.31	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.1		0.32	0.083	mg/Kg	1	✳	6010B	Total/NA
Copper	31		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		13	6.6	mg/Kg	1	✳	6010B	Total/NA
Lead	96		0.32	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	20000		6.3	3.1	mg/Kg	1	✳	6010B	Total/NA
Calcium	34000		13	2.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	280		0.63	0.092	mg/Kg	1	✳	6010B	Total/NA
Nickel	30		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.62	J	0.63	0.37	mg/Kg	1	✳	6010B	Total/NA
Silver	0.63	B	0.32	0.082	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.41	J	0.63	0.32	mg/Kg	1	✳	6010B	Total/NA
Vanadium	30		0.32	0.075	mg/Kg	1	✳	6010B	Total/NA
Zinc	130		1.3	0.56	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300	B	32	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	2000		63	9.4	mg/Kg	1	✳	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0064		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.087		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0091		0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	0.62		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.066		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.29	J B	0.31	0.15	mg/Kg	1	✳	9012B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Client Sample ID: 3972-COV-5-B01 (0-2)

Lab Sample ID: 500-192715-1

Date Collected: 12/17/20 13:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.029		0.020	0.0086	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Benzene	<0.00050		0.0020	0.00050	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Bromomethane	<0.0019		0.0049	0.0019	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
2-Butanone (MEK)	0.0071		0.0049	0.0022	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Carbon tetrachloride	<0.00057		0.0020	0.00057	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Chlorobenzene	<0.00073		0.0020	0.00073	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Chloroethane	<0.0015		0.0049	0.0015	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Chloromethane	<0.0020		0.0049	0.0020	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
1,1-Dichloroethene	<0.00068		0.0020	0.00068	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
1,2-Dichloropropene	<0.00051		0.0020	0.00051	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
1,3-Dichloropropene, Total	<0.00069		0.0020	0.00069	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Ethylbenzene	<0.00095		0.0020	0.00095	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0049	0.0015	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Methyl tert-butyl ether	<0.00058		0.0020	0.00058	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
1,1,2,2-Tetrachloroethane	<0.00063		0.0020	0.00063	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Tetrachloroethene	<0.00067		0.0020	0.00067	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
trans-1,2-Dichloroethene	<0.00088		0.0020	0.00088	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
trans-1,3-Dichloropropene	<0.00069		0.0020	0.00069	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
1,1,1-Trichloroethane	<0.00066		0.0020	0.00066	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
1,1,2-Trichloroethane	<0.00085		0.0020	0.00085	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Vinyl chloride	<0.00088		0.0020	0.00088	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1
Xylenes, Total	<0.00063		0.0040	0.00063	mg/Kg	✳	12/18/20 17:43	12/23/20 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	12/18/20 17:43	12/23/20 17:05	1
Dibromofluoromethane	100		75 - 126	12/18/20 17:43	12/23/20 17:05	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	12/18/20 17:43	12/23/20 17:05	1
Toluene-d8 (Surr)	93		75 - 124	12/18/20 17:43	12/23/20 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0077		0.043	0.0077	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
Acenaphthylene	<0.0057		0.043	0.0057	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
Anthracene	0.032	J	0.043	0.0072	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
Benzo[a]anthracene	0.18		0.043	0.0058	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Client Sample ID: 3972-COV-5-B01 (0-2)

Lab Sample ID: 500-192715-1

Date Collected: 12/17/20 13:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.21		0.043	0.0083	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Benzo[b]fluoranthene	0.32		0.043	0.0093	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Benzo[g,h,i]perylene	0.084		0.043	0.014	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Benzo[k]fluoranthene	0.11		0.043	0.013	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Bis(2-chloroethoxy)methane	<0.044		0.22	0.044	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Bis(2-chloroethyl)ether	<0.064		0.22	0.064	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Bis(2-ethylhexyl) phthalate	<0.078		0.22	0.078	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
4-Bromophenyl phenyl ether	<0.057		0.22	0.057	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Butyl benzyl phthalate	<0.082		0.22	0.082	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Carbazole	<0.11		0.22	0.11	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
4-Chloroaniline	<0.20		0.87	0.20	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
4-Chloro-3-methylphenol	<0.15		0.43	0.15	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2-Chloronaphthalene	<0.047		0.22	0.047	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2-Chlorophenol	<0.073		0.22	0.073	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
4-Chlorophenyl phenyl ether	<0.050		0.22	0.050	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Chrysene	0.20		0.043	0.012	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Dibenz(a,h)anthracene	0.012 J		0.043	0.0083	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Dibenzofuran	<0.050		0.22	0.050	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
1,2-Dichlorobenzene	<0.051		0.22	0.051	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
1,3-Dichlorobenzene	<0.048		0.22	0.048	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
1,4-Dichlorobenzene	<0.055		0.22	0.055	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
3,3'-Dichlorobenzidine	<0.060		0.22	0.060	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2,4-Dichlorophenol	<0.10		0.43	0.10	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Diethyl phthalate	<0.073		0.22	0.073	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2,4-Dimethylphenol	<0.16		0.43	0.16	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Dimethyl phthalate	<0.056		0.22	0.056	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Di-n-butyl phthalate	<0.065		0.22	0.065	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
4,6-Dinitro-2-methylphenol	<0.34		0.87	0.34	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2,4-Dinitrophenol	<0.76		0.87	0.76	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2,4-Dinitrotoluene	<0.068		0.22	0.068	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2,6-Dinitrotoluene	<0.084		0.22	0.084	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Di-n-octyl phthalate	<0.070		0.22	0.070	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Fluoranthene	0.35		0.043	0.0080	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Fluorene	<0.0060		0.043	0.0060	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Hexachlorobenzene	<0.0099		0.087	0.0099	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Hexachlorobutadiene	<0.067		0.22	0.067	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Hexachlorocyclopentadiene	<0.25		0.87	0.25	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Hexachloroethane	<0.065		0.22	0.065	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Indeno[1,2,3-cd]pyrene	0.090		0.043	0.011	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Isophorone	<0.048		0.22	0.048	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2-Methylnaphthalene	<0.0079		0.087	0.0079	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2-Methylphenol	<0.069		0.22	0.069	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
3 & 4 Methylphenol	<0.072		0.22	0.072	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Naphthalene	<0.0066		0.043	0.0066	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2-Nitroaniline	<0.058		0.22	0.058	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
3-Nitroaniline	<0.13		0.43	0.13	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
4-Nitroaniline	<0.18		0.43	0.18	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
Nitrobenzene	<0.011		0.043	0.011	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1
2-Nitrophenol	<0.10		0.43	0.10	mg/Kg	☼	12/23/20 08:17	12/24/20 18:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Client Sample ID: 3972-COV-5-B01 (0-2)

Lab Sample ID: 500-192715-1

Date Collected: 12/17/20 13:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.41		0.87	0.41	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
N-Nitrosodi-n-propylamine	<0.052		0.087	0.052	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
N-Nitrosodiphenylamine	<0.051		0.22	0.051	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
2,2'-oxybis[1-chloropropane]	<0.050		0.22	0.050	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
Pentachlorophenol	<0.69		0.87	0.69	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
Phenanthrene	0.12		0.043	0.0060	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
Phenol	<0.095		0.22	0.095	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
Pyrene	0.30		0.043	0.0085	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
1,2,4-Trichlorobenzene	<0.046		0.22	0.046	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
2,4,5-Trichlorophenol	<0.098		0.43	0.098	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
2,4,6-Trichlorophenol	<0.15		0.43	0.15	mg/Kg	✳	12/23/20 08:17	12/24/20 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145				12/23/20 08:17	12/24/20 18:15	1
2-Fluorophenol	101		31 - 166				12/23/20 08:17	12/24/20 18:15	1
Nitrobenzene-d5	102		37 - 147				12/23/20 08:17	12/24/20 18:15	1
Phenol-d5	100		30 - 153				12/23/20 08:17	12/24/20 18:15	1
Terphenyl-d14	99		42 - 157				12/23/20 08:17	12/24/20 18:15	1
2,4,6-Tribromophenol	92		31 - 143				12/23/20 08:17	12/24/20 18:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.25		1.3	0.25	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Arsenic	5.8		0.63	0.22	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Barium	95		0.63	0.072	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Beryllium	0.78		0.25	0.059	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Cadmium	1.7		0.13	0.023	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Chromium	30		0.63	0.31	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Cobalt	9.1		0.32	0.083	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Copper	31		0.63	0.18	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Iron	18000		13	6.6	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Lead	96		0.32	0.15	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Magnesium	20000		6.3	3.1	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Calcium	34000		13	2.1	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Manganese	280		0.63	0.092	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Nickel	30		0.63	0.18	mg/Kg	✳	12/23/20 08:02	12/28/20 15:49	1
Selenium	0.62 J		0.63	0.37	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Silver	0.63 B		0.32	0.082	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Thallium	0.41 J		0.63	0.32	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Vanadium	30		0.32	0.075	mg/Kg	✳	12/23/20 08:02	12/28/20 15:49	1
Zinc	130		1.3	0.56	mg/Kg	✳	12/23/20 08:02	12/28/20 15:49	1
Potassium	2300 B		32	11	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1
Sodium	2000		63	9.4	mg/Kg	✳	12/23/20 08:02	12/24/20 20:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:41	1
Barium	0.49 J		0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:41	1
Cadmium	0.0064		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Client Sample ID: 3972-COV-5-B01 (0-2)

Lab Sample ID: 500-192715-1

Date Collected: 12/17/20 13:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 22:41	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:41	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:41	1
Copper	0.087		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:41	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:41	1
Lead	0.012		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 22:41	1
Magnesium	110		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:41	1
Manganese	2.4		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:41	1
Nickel	0.014	J	0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:41	1
Potassium	2.6		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:41	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:41	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:41	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:41	1
Zinc	0.13	J	0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:41	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0091		0.0050	0.0020	mg/L		12/29/20 06:44	12/29/20 20:35	1
Lead	0.62		0.0075	0.0075	mg/L		12/29/20 06:44	12/29/20 20:35	1
Manganese	1.6		0.025	0.010	mg/L		12/29/20 06:44	12/29/20 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 14:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 14:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066		0.020	0.0066	mg/Kg	☼	12/23/20 13:40	12/24/20 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.29	J B	0.31	0.15	mg/Kg	☼	12/23/20 12:32	12/23/20 14:16	1
pH	9.0		0.2	0.2	SU			12/22/20 21:26	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192715-1	3972-COV-5-B01 (0-2)	103	100	93	93
LCS 500-578187/26	Lab Control Sample	96	89	80	97
LCSD 500-578187/5	Lab Control Sample Dup	93	87	76	97
MB 500-578187/7	Method Blank	100	95	85	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192715-1	3972-COV-5-B01 (0-2)	96	101	102	100	99	92
LCS 500-578231/2-A	Lab Control Sample	92	99	92	92	94	86
MB 500-578231/1-A	Method Blank	97	97	100	97	91	92

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Lab Sample ID: MB 500-578187/7

Matrix: Solid

Analysis Batch: 578187

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/23/20 12:48	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/23/20 12:48	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/23/20 12:48	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/23/20 12:48	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/23/20 12:48	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/23/20 12:48	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/23/20 12:48	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/23/20 12:48	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/23/20 12:48	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/23/20 12:48	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/23/20 12:48	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/23/20 12:48	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/23/20 12:48	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/23/20 12:48	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/23/20 12:48	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/23/20 12:48	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/23/20 12:48	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/23/20 12:48	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/23/20 12:48	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/23/20 12:48	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/23/20 12:48	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/23/20 12:48	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/23/20 12:48	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/23/20 12:48	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/23/20 12:48	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/23/20 12:48	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/23/20 12:48	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/23/20 12:48	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/23/20 12:48	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/23/20 12:48	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/23/20 12:48	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/23/20 12:48	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/23/20 12:48	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/23/20 12:48	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		75 - 131		12/23/20 12:48	1
Dibromofluoromethane	95		75 - 126		12/23/20 12:48	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134		12/23/20 12:48	1
Toluene-d8 (Surr)	95		75 - 124		12/23/20 12:48	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Lab Sample ID: LCS 500-578187/26

Matrix: Solid

Analysis Batch: 578187

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	0.0287		mg/Kg		57	40 - 150
Benzene	0.0500	0.0512		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0454		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0437		mg/Kg		87	68 - 136
Bromomethane	0.0500	0.0381		mg/Kg		76	70 - 130
2-Butanone (MEK)	0.0500	0.0254		mg/Kg		51	47 - 138
Carbon disulfide	0.0500	0.0521		mg/Kg		104	70 - 129
Carbon tetrachloride	0.0500	0.0533		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0531		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0508		mg/Kg		102	75 - 125
Chloroform	0.0500	0.0473		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0539		mg/Kg		108	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0560		mg/Kg		112	70 - 125
1,2-Dichloroethane	0.0500	0.0437		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 120
1,2-Dichloropropane	0.0500	0.0538		mg/Kg		108	70 - 125
Ethylbenzene	0.0500	0.0547		mg/Kg		109	61 - 136
2-Hexanone	0.0500	0.0256		mg/Kg		51	48 - 146
Methylene Chloride	0.0500	0.0449		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0258		mg/Kg		52	50 - 148
Methyl tert-butyl ether	0.0500	0.0357		mg/Kg		71	50 - 140
Styrene	0.0500	0.0522		mg/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0420		mg/Kg		84	70 - 122
Tetrachloroethene	0.0500	0.0523		mg/Kg		105	70 - 124
Toluene	0.0500	0.0538		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0515		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0424		mg/Kg		85	70 - 125
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128
1,1,2-Trichloroethane	0.0500	0.0446		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0537		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0271		mg/Kg		54	40 - 153
Vinyl chloride	0.0500	0.0518		mg/Kg		104	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	89		75 - 126
1,2-Dichloroethane-d4 (Surr)	80		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Lab Sample ID: LCSD 500-578187/5
Matrix: Solid
Analysis Batch: 578187

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	0.0335		mg/Kg		67	40 - 150	15	30
Benzene	0.0500	0.0558		mg/Kg		112	70 - 125	9	30
Bromodichloromethane	0.0500	0.0503		mg/Kg		101	67 - 129	10	30
Bromoform	0.0500	0.0484		mg/Kg		97	68 - 136	10	30
Bromomethane	0.0500	0.0437		mg/Kg		87	70 - 130	14	30
2-Butanone (MEK)	0.0500	0.0264		mg/Kg		53	47 - 138	4	30
Carbon disulfide	0.0500	0.0589		mg/Kg		118	70 - 129	12	30
Carbon tetrachloride	0.0500	0.0592		mg/Kg		118	75 - 125	11	30
Chlorobenzene	0.0500	0.0581		mg/Kg		116	50 - 150	9	30
Chloroethane	0.0500	0.0560		mg/Kg		112	75 - 125	10	30
Chloroform	0.0500	0.0524		mg/Kg		105	57 - 135	10	30
Chloromethane	0.0500	0.0617		mg/Kg		123	70 - 125	14	30
cis-1,2-Dichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125	11	30
cis-1,3-Dichloropropene	0.0500	0.0491		mg/Kg		98	70 - 125	10	30
Dibromochloromethane	0.0500	0.0524		mg/Kg		105	69 - 125	7	30
1,1-Dichloroethane	0.0500	0.0610		mg/Kg		122	70 - 125	9	30
1,2-Dichloroethane	0.0500	0.0475		mg/Kg		95	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0571		mg/Kg		114	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0590		mg/Kg		118	70 - 125	9	30
Ethylbenzene	0.0500	0.0601		mg/Kg		120	61 - 136	9	30
2-Hexanone	0.0500	0.0305		mg/Kg		61	48 - 146	17	30
Methylene Chloride	0.0500	0.0501		mg/Kg		100	70 - 126	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0295		mg/Kg		59	50 - 148	13	30
Methyl tert-butyl ether	0.0500	0.0414		mg/Kg		83	50 - 140	15	30
Styrene	0.0500	0.0570		mg/Kg		114	70 - 125	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.0470		mg/Kg		94	70 - 122	11	30
Tetrachloroethene	0.0500	0.0566		mg/Kg		113	70 - 124	8	30
Toluene	0.0500	0.0588		mg/Kg		118	70 - 125	9	30
trans-1,2-Dichloroethene	0.0500	0.0568		mg/Kg		114	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125	8	30
1,1,1-Trichloroethane	0.0500	0.0552		mg/Kg		110	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125	11	30
Trichloroethene	0.0500	0.0589		mg/Kg		118	70 - 125	9	30
Vinyl acetate	0.0500	0.0265		mg/Kg		53	40 - 153	2	30
Vinyl chloride	0.0500	0.0584		mg/Kg		117	70 - 125	12	30
Xylenes, Total	0.100	0.113		mg/Kg		113	53 - 147	10	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Lab Sample ID: MB 500-578231/1-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578231

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/23/20 08:17	12/24/20 11:17	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Lab Sample ID: MB 500-578231/1-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/23/20 08:17	12/24/20 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145	12/23/20 08:17	12/24/20 11:17	1
2-Fluorophenol	97		31 - 166	12/23/20 08:17	12/24/20 11:17	1
Nitrobenzene-d5	100		37 - 147	12/23/20 08:17	12/24/20 11:17	1
Phenol-d5	97		30 - 153	12/23/20 08:17	12/24/20 11:17	1
Terphenyl-d14	91		42 - 157	12/23/20 08:17	12/24/20 11:17	1
2,4,6-Tribromophenol	92		31 - 143	12/23/20 08:17	12/24/20 11:17	1

Lab Sample ID: LCS 500-578231/2-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.19		mg/Kg		89	68 - 120
Anthracene	1.33	1.16		mg/Kg		87	70 - 114
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	65 - 133
Benzo[b]fluoranthene	1.33	1.40		mg/Kg		105	69 - 129
Benzo[g,h,i]perylene	1.33	1.39		mg/Kg		104	72 - 131
Benzo[k]fluoranthene	1.33	1.42		mg/Kg		107	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.19		mg/Kg		90	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		98	72 - 131
4-Bromophenyl phenyl ether	1.33	1.24		mg/Kg		93	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		97	71 - 129
Carbazole	1.33	1.29		mg/Kg		97	65 - 142
4-Chloroaniline	1.33	1.20		mg/Kg		90	30 - 150
4-Chloro-3-methylphenol	1.33	1.32		mg/Kg		99	65 - 122
2-Chloronaphthalene	1.33	1.22		mg/Kg		91	69 - 114
2-Chlorophenol	1.33	1.24		mg/Kg		93	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Lab Sample ID: LCS 500-578231/2-A

Matrix: Solid

Analysis Batch: 578463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.25		mg/Kg		94	62 - 119
Chrysene	1.33	1.23		mg/Kg		92	63 - 120
Dibenz(a,h)anthracene	1.33	1.38		mg/Kg		104	64 - 131
Dibenzofuran	1.33	1.21		mg/Kg		91	66 - 115
1,2-Dichlorobenzene	1.33	1.18		mg/Kg		89	62 - 110
1,3-Dichlorobenzene	1.33	1.13		mg/Kg		85	65 - 124
1,4-Dichlorobenzene	1.33	1.14		mg/Kg		86	61 - 110
3,3'-Dichlorobenzidine	1.33	1.07		mg/Kg		80	35 - 128
2,4-Dichlorophenol	1.33	1.22		mg/Kg		92	58 - 120
Diethyl phthalate	1.33	1.25		mg/Kg		93	58 - 120
2,4-Dimethylphenol	1.33	1.26		mg/Kg		94	60 - 110
Dimethyl phthalate	1.33	1.22		mg/Kg		91	69 - 116
Di-n-butyl phthalate	1.33	1.28		mg/Kg		96	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.387	J	mg/Kg		15	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		10	10 - 100
2,4-Dinitrotoluene	1.33	1.23		mg/Kg		92	69 - 124
2,6-Dinitrotoluene	1.33	1.22		mg/Kg		92	70 - 123
Di-n-octyl phthalate	1.33	1.24		mg/Kg		93	68 - 134
Fluoranthene	1.33	1.19		mg/Kg		89	62 - 120
Fluorene	1.33	1.22		mg/Kg		92	62 - 120
Hexachlorobenzene	1.33	1.15		mg/Kg		86	63 - 124
Hexachlorobutadiene	1.33	1.20		mg/Kg		90	56 - 120
Hexachlorocyclopentadiene	1.33	0.589	J	mg/Kg		44	10 - 133
Hexachloroethane	1.33	1.24		mg/Kg		93	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.38		mg/Kg		103	68 - 130
Isophorone	1.33	1.24		mg/Kg		93	55 - 110
2-Methylnaphthalene	1.33	1.20		mg/Kg		90	69 - 112
2-Methylphenol	1.33	1.22		mg/Kg		92	60 - 120
3 & 4 Methylphenol	1.33	1.30		mg/Kg		97	57 - 120
Naphthalene	1.33	1.19		mg/Kg		89	63 - 110
2-Nitroaniline	1.33	1.44		mg/Kg		108	57 - 124
3-Nitroaniline	1.33	1.10		mg/Kg		82	40 - 122
4-Nitroaniline	1.33	1.11		mg/Kg		83	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.18		mg/Kg		88	60 - 120
4-Nitrophenol	2.67	2.62		mg/Kg		98	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.32		mg/Kg		99	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.39		mg/Kg		104	40 - 124
Pentachlorophenol	2.67	0.906		mg/Kg		34	13 - 112
Phenanthrene	1.33	1.19		mg/Kg		89	62 - 120
Phenol	1.33	1.36		mg/Kg		102	56 - 122
Pyrene	1.33	1.23		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.18		mg/Kg		88	66 - 117
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	50 - 120
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Lab Sample ID: LCS 500-578231/2-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578231

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	92		43 - 145
2-Fluorophenol	99		31 - 166
Nitrobenzene-d5	92		37 - 147
Phenol-d5	92		30 - 153
Terphenyl-d14	94		42 - 157
2,4,6-Tribromophenol	86		31 - 143

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-578798/2-A
Matrix: Solid
Analysis Batch: 579009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578798

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Cadmium	0.0500	0.0481		mg/L		96	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Manganese	0.500	0.518		mg/L		104	80 - 120

Lab Sample ID: LB 500-578638/2-B
Matrix: Solid
Analysis Batch: 579009

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 578798

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:44	12/29/20 20:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:44	12/29/20 20:25	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 06:44	12/29/20 20:25	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578221/1-A
Matrix: Solid
Analysis Batch: 578658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578221

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Barium	<0.11		1.0	0.11	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Copper	<0.28		1.0	0.28	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Iron	<10		20	10	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Lead	<0.23		0.50	0.23	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Magnesium	<5.0		10	5.0	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Calcium	<3.4		20	3.4	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Silver	0.131	J	0.50	0.13	mg/Kg		12/23/20 08:02	12/24/20 19:16	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Lab Sample ID: MB 500-578221/1-A
Matrix: Solid
Analysis Batch: 578658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.50		1.0	0.50	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Potassium	19.6	J	50	18	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Sodium	<15		100	15	mg/Kg		12/23/20 08:02	12/24/20 19:16	1

Lab Sample ID: MB 500-578221/1-A
Matrix: Solid
Analysis Batch: 578790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.29		1.0	0.29	mg/Kg		12/23/20 08:02	12/28/20 15:19	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/23/20 08:02	12/28/20 15:19	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/23/20 08:02	12/28/20 15:19	1

Lab Sample ID: LCS 500-578221/2-A
Matrix: Solid
Analysis Batch: 578658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.6		mg/Kg		89	80 - 120
Arsenic	10.0	9.55		mg/Kg		96	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.57		mg/Kg		91	80 - 120
Cadmium	5.00	4.61		mg/Kg		92	80 - 120
Chromium	20.0	18.3		mg/Kg		92	80 - 120
Cobalt	50.0	47.2		mg/Kg		94	80 - 120
Copper	25.0	24.1		mg/Kg		96	80 - 120
Iron	100	99.5		mg/Kg		100	80 - 120
Lead	10.0	9.14		mg/Kg		91	80 - 120
Magnesium	1000	882		mg/Kg		88	80 - 120
Calcium	1000	916		mg/Kg		92	80 - 120
Manganese	50.0	45.1		mg/Kg		90	80 - 120
Selenium	10.0	8.32		mg/Kg		83	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Thallium	10.0	9.62		mg/Kg		96	80 - 120
Potassium	1000	945		mg/Kg		95	80 - 120
Sodium	1000	953		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-578221/2-A
Matrix: Solid
Analysis Batch: 578790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.0		mg/Kg		92	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

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

Lab Sample ID: LCS 500-578797/2-A
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.498	J	mg/L		100	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Cadmium	0.0500	0.0517		mg/L		103	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.500	0.536		mg/L		107	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Iron	1.00	0.990		mg/L		99	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	9.37		mg/L		94	80 - 120
Calcium	10.0	9.99		mg/L		100	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.537		mg/L		107	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0537		mg/L		107	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120
Zinc	0.500	0.594		mg/L		119	80 - 120
Potassium	10.0	11.3		mg/L		113	80 - 120

Lab Sample ID: LB 500-578634/1-B
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578797

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Barium	<0.050		0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:31	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 22:31	1
Magnesium	<0.50		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1
Calcium	<0.50		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Potassium	<0.50		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-578797/2-A
Matrix: Solid
Analysis Batch: 578960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.484		mg/L		97	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LB 500-578634/1-B
Matrix: Solid
Analysis Batch: 578960

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578797

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 14:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 14:49	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-578876/12-A
Matrix: Solid
Analysis Batch: 579109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:40	1

Lab Sample ID: LCS 500-578876/14-A
Matrix: Solid
Analysis Batch: 579109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00207		mg/L		103	80 - 120

Lab Sample ID: LB 500-578634/1-C
Matrix: Solid
Analysis Batch: 579109

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578876

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:42	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578273/12-A
Matrix: Solid
Analysis Batch: 578504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/23/20 13:40	12/24/20 09:27	1

Lab Sample ID: LCS 500-578273/13-A
Matrix: Solid
Analysis Batch: 578504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.175		mg/Kg		105	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578315/1-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.122	J	0.24	0.12	mg/Kg		12/23/20 12:32	12/23/20 14:04	1

Lab Sample ID: HLCS 500-578315/2-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.8		mg/Kg		106	90 - 110

Lab Sample ID: LCS 500-578315/3-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.73		mg/Kg		114	85 - 115

Lab Sample ID: LLCS 500-578315/4-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.49		mg/Kg		124	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

GC/MS VOA

Prep Batch: 578173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 578187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	8260B	578173
MB 500-578187/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578187/26	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578187/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	3541	
MB 500-578231/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578231/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 578463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	8270D	578231
MB 500-578231/1-A	Method Blank	Total/NA	Solid	8270D	578231
LCS 500-578231/2-A	Lab Control Sample	Total/NA	Solid	8270D	578231

Metals

Prep Batch: 578221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-578221/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578221/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 578273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-578273/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578273/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 578504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	7471B	578273
MB 500-578273/12-A	Method Blank	Total/NA	Solid	7471B	578273
LCS 500-578273/13-A	Lab Control Sample	Total/NA	Solid	7471B	578273

Leach Batch: 578634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	TCLP	Solid	1311	
LB 500-578634/1-B	Method Blank	TCLP	Solid	1311	
LB 500-578634/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 578638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	SPLP East	Solid	1312	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Metals (Continued)

Leach Batch: 578638 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-578638/2-B	Method Blank	SPLP East	Solid	1312	

Analysis Batch: 578658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	6010B	578221
MB 500-578221/1-A	Method Blank	Total/NA	Solid	6010B	578221
LCS 500-578221/2-A	Lab Control Sample	Total/NA	Solid	6010B	578221

Analysis Batch: 578790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	6010B	578221
MB 500-578221/1-A	Method Blank	Total/NA	Solid	6010B	578221
LCS 500-578221/2-A	Lab Control Sample	Total/NA	Solid	6010B	578221

Prep Batch: 578797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	TCLP	Solid	3010A	578634
LB 500-578634/1-B	Method Blank	TCLP	Solid	3010A	578634
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 578798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	SPLP East	Solid	3010A	578638
LB 500-578638/2-B	Method Blank	SPLP East	Solid	3010A	578638
LCS 500-578798/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 578876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	TCLP	Solid	7470A	578634
LB 500-578634/1-C	Method Blank	TCLP	Solid	7470A	578634
MB 500-578876/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-578876/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 578960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	TCLP	Solid	6020A	578797
LB 500-578634/1-B	Method Blank	TCLP	Solid	6020A	578797
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	6020A	578797

Analysis Batch: 579009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	SPLP East	Solid	6010B	578798
LB 500-578638/2-B	Method Blank	SPLP East	Solid	6010B	578798
LCS 500-578798/2-A	Lab Control Sample	Total/NA	Solid	6010B	578798

Analysis Batch: 579010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	TCLP	Solid	6010B	578797
LB 500-578634/1-B	Method Blank	TCLP	Solid	6010B	578797
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	6010B	578797

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Metals

Analysis Batch: 579109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	TCLP	Solid	7470A	578876
LB 500-578634/1-C	Method Blank	TCLP	Solid	7470A	578876
MB 500-578876/12-A	Method Blank	Total/NA	Solid	7470A	578876
LCS 500-578876/14-A	Lab Control Sample	Total/NA	Solid	7470A	578876

General Chemistry

Analysis Batch: 578009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 578223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-578223/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-578223/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	9010C	
MB 500-578315/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578315/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578315/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578315/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192715-1	3972-COV-5-B01 (0-2)	Total/NA	Solid	9012B	578315
MB 500-578315/1-A	Method Blank	Total/NA	Solid	9012B	578315
HLCS 500-578315/2-A	Lab Control Sample	Total/NA	Solid	9012B	578315
LCS 500-578315/3-A	Lab Control Sample	Total/NA	Solid	9012B	578315
LLCS 500-578315/4-A	Lab Control Sample	Total/NA	Solid	9012B	578315

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Client Sample ID: 3972-COV-5-B01 (0-2)

Lab Sample ID: 500-192715-1

Date Collected: 12/17/20 13:40

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			578638	12/24/20 16:34	OAJ	TAL CHI
SPLP East	Prep	3010A			578798	12/29/20 06:44	LMN	TAL CHI
SPLP East	Analysis	6010B		1	579009	12/29/20 20:35	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6010B		1	579010	12/29/20 22:41	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6020A		1	578960	12/29/20 14:55	FXG	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	7470A			578876	12/29/20 09:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 07:48	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578223	12/22/20 21:26	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	578009	12/22/20 10:25	LWN	TAL CHI

Client Sample ID: 3972-COV-5-B01 (0-2)

Lab Sample ID: 500-192715-1

Date Collected: 12/17/20 13:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578173	12/18/20 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578187	12/23/20 17:05	JDD	TAL CHI
Total/NA	Prep	3541			578231	12/23/20 08:17	BSO	TAL CHI
Total/NA	Analysis	8270D		1	578463	12/24/20 18:15	SS	TAL CHI
Total/NA	Prep	3050B			578221	12/23/20 08:02	LMN	TAL CHI
Total/NA	Analysis	6010B		1	578658	12/24/20 20:05	EEN	TAL CHI
Total/NA	Prep	3050B			578221	12/23/20 08:02	LMN	TAL CHI
Total/NA	Analysis	6010B		1	578790	12/28/20 15:49	EEN	TAL CHI
Total/NA	Prep	7471B			578273	12/23/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578504	12/24/20 09:49	MJG	TAL CHI
Total/NA	Prep	9010C			578315	12/23/20 12:32	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578364	12/23/20 14:16	PSP	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192715-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192715-1	3972-COV-5-B01 (0-2)	Solid	12/17/20 13:40	12/17/20 17:30	

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Chain of Custody Record 497500




Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: <i>Rich. Obregon</i>		Site Contact:		Date: <i>12/17/20</i>		COC No:							
Company Name: <i>Terracon</i>		Tel/Email: <i>matt.hobbs@terracon.com</i>		Lab Contact:		Carrier:		1 of 1 COCs							
Address: <i>192 Ketchum Blvd</i>		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" 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) <i>UX 15</i> <i>Subc 5</i> <i>Pb 23 Inorganics/PAH</i> <i>TCLP 23 Inorganics</i> <i>SPCL 23 Inorganics</i>		 500-192715 COC		Sampler: <i>D. G. Pl</i>		For Lab Use Only:					
City/State/Zip: <i>Chester Heights, PA</i>								Walk-in Client:		Lab Sampling:		Job / SDG No.:			
Phone: <i>630-445-0166</i>								Project Name: <i>112070116</i>		Site: <i>112070116</i>		P O #:		Sample Specific Notes:	
Fax:								Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)			
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.					
<i>3972-COV-5-B01 (02)</i>		<i>12/17/20</i>		<i>1340</i>		<i>G</i>		<i>Soil</i>		<i>6</i>					
Preservation Used: <i>1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other</i>		Possible Hazard Identification:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return to Client		Disposal by Lab		Archive for _____ Months					
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 checked="" type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Special Instructions/QC Requirements & Comments: <i>* NO Aluminium * Hold SPCL 23 Inorganics Per Terracon Instructions</i>		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Relinquished by:					
Relinquished by: <i>[Signature]</i> Company: <i>Terracon</i> Date/Time: <i>12/17/20 1605</i>		Relinquished by: <i>P. New</i> Company: <i>EA</i> Date/Time: <i>12/17/20 1605</i>		Relinquished by: <i>[Signature]</i> Company: <i>EA</i> Date/Time: <i>12/18/20 0630</i>		Relinquished by: <i>[Signature]</i> Company: <i>EA</i> Date/Time: <i>12/18/20 0630</i>		Relinquished by: <i>[Signature]</i> Company: <i>EA</i> Date/Time: <i>12/18/20 0630</i>		Relinquished by: <i>[Signature]</i> Company: <i>EA</i> Date/Time: <i>12/18/20 0630</i>					



Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192715-1

Login Number: 192715

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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	1.1,-0.2 SAMPLES NOT FROZEN
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Barrington Road (Southbound) IDOT STA 64+90 to 67+80 (ISGS Site 3972-COV-6)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Hanover

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

Latitude: 42.00679 Longitude: -88.14486

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 300

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01, B02, and B03 was sampled adjacent to ISGS Site No 3972-COV-6. See Exhibits 2 and 3 and Table 7 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192810-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-6)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-6-B01 (0-6)	3972-COV-6-B01 (0-6) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-6)	(0-6)
					Date Collected	12/18/2020	12/18/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		0.016	0.014
2-Butanone	mg/kg	---	---	17		<0.0017	<0.0019
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		0.038	0.045
Anthracene	mg/kg	0.25	0.4	12000		0.028	0.066
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.037	0.090
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.046	0.11
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.070	0.17
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.029	0.053
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.019	0.075
Chrysene	mg/kg	1.2	2.7	88		0.051	0.12
Fluoranthene	mg/kg	2.7	4.1	3100		0.21	0.50
Fluorene	mg/kg	0.1	0.18	560		0.042	0.045
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.027	0.051
Naphthalene	mg/kg	0.04	0.2	1.8		0.0099	0.0082
Phenanthrene	mg/kg	1.3	2.5	210		0.16	0.21
Pyrene	mg/kg	1.9	3.0	2300		0.17	0.40
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.6	6.9
Barium	mg/kg	---	110	1500		70	64
Cadmium	mg/kg	---	0.6	5.2		0.19	0.16
Chromium, total	mg/kg	---	16.2	21		18	17
Lead	mg/kg	---	36	107		100	85
Mercury	mg/kg	---	0.06	0.89		0.032	0.026
Selenium	mg/kg	---	0.48	1.3		<0.37	<0.37
Silver	mg/kg	---	0.55	4.4		0.27	0.16
Antimony	mg/kg	---	4.0	5		<0.24	<0.24
Beryllium	mg/kg	---	0.59	22		0.68	0.66
Calcium	mg/kg	---	9,300	---		59000	63000
Cobalt	mg/kg	---	8.9	20		11	11
Copper	mg/kg	---	19.6	2900		22	21
Cyanide	mg/kg	---	0.51	---		0.23	0.17
Iron	mg/kg	---	15,900	15000		18000	18000
Magnesium	mg/kg	---	4,820	325000		24000	27000
Manganese	mg/kg	---	636	630		340	460
Nickel	mg/kg	---	18	100		29	28
Potassium	mg/kg	---	1,268	---		2400	2400
Sodium	mg/kg	---	130	---		290	280
Thallium	mg/kg	---	0.32	2.6		<0.31	<0.31
Vanadium	mg/kg	---	25.2	550		25	24
Zinc	mg/kg	---	95	5100		82	79
pH			6.25	9		8.1	7.9

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-6)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-6-B01 (0-6)	3972-COV-6-B01 (0-6) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-6)	(0-6)
					Date Collected	12/18/2020	12/18/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		<0.0075	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.019	0.012
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.58	0.46
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		0.0079	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		440	420
Cobalt,TCLP	mg/L	---	---	---		0.021	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		39	24
Manganese,TCLP	mg/L	---	---	---		4.7	2.7
Nickel,TCLP	mg/L	---	---	---		0.017	<0.010
Potassium,TCLP	mg/L	---	---	---		2.9	2.5
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.072	0.030

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-6)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 3 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-6-B02 (0-7)	3972-COV-6-B02 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(7-13)
					Date Collected	12/18/2020	12/18/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		0.015	0.069
2-Butanone	mg/kg	---	---	17		<0.0015	0.016
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0070	<0.0095
Anthracene	mg/kg	0.25	0.4	12000		<0.0065	<0.0089
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0052	<0.0071
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0075	<0.010
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0084	<0.011
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	<0.017
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.011	<0.016
Chrysene	mg/kg	1.2	2.7	88		<0.011	<0.014
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0072	0.014
Fluorene	mg/kg	0.1	0.18	560		<0.0055	<0.0075
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010	<0.014
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0060	<0.0082
Phenanthrene	mg/kg	1.3	2.5	210		<0.0054	0.0091
Pyrene	mg/kg	1.9	3.0	2300		<0.0077	0.013
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.0	7.1
Barium	mg/kg	---	110	1500		57	120
Cadmium	mg/kg	---	0.6	5.2		0.026	0.21
Chromium, total	mg/kg	---	16.2	21		17	21
Lead	mg/kg	---	36	107		17	24
Mercury	mg/kg	---	0.06	0.89		0.023	0.044
Selenium	mg/kg	---	0.48	1.3		<0.32	0.90
Silver	mg/kg	---	0.55	4.4		0.22	0.35
Antimony	mg/kg	---	4.0	5		<0.21	<0.29
Beryllium	mg/kg	---	0.59	22		0.67	0.83
Calcium	mg/kg	---	9,300	---		63000	15000
Cobalt	mg/kg	---	8.9	20		12	14
Copper	mg/kg	---	19.6	2900		21	23
Cyanide	mg/kg	---	0.51	---		<0.14	0.41
Iron	mg/kg	---	15,900	15000		19000	19000
Magnesium	mg/kg	---	4,820	325000		27000	8500
Manganese	mg/kg	---	636	630		360	260
Nickel	mg/kg	---	18	100		31	32
Potassium	mg/kg	---	1,268	---		2500	2200
Sodium	mg/kg	---	130	---		270	350
Thallium	mg/kg	---	0.32	2.6		<0.27	<0.37
Vanadium	mg/kg	---	25.2	550		24	32
Zinc	mg/kg	---	95	5100		65	86
pH			6.25	9		8.3	7.2

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-6)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 4 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-6-B02 (0-7)	3972-COV-6-B02 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(7-13)
					Date Collected	12/18/2020	12/18/2020
Inorganic Analytical Parameters (SPLP)							
Antimony, SPLP	mg/L	---	---	---		--	--
Arsenic, SPLP	mg/L	---	---	---		--	--
Barium, SPLP	mg/L	---	---	---		--	--
Beryllium, SPLP	mg/L	---	---	---		--	--
Cadmium, SPLP	mg/L	---	---	---		--	--
Calcium, SPLP	mg/L	---	---	---		--	--
Chromium, SPLP	mg/L	---	---	---		--	--
Cobalt, SPLP	mg/L	---	---	---		--	--
Copper, SPLP	mg/L	---	---	---		--	--
Iron, SPLP	mg/L	---	---	---		--	--
Lead, SPLP	mg/L	---	---	---		--	--
Magnesium, SPLP	mg/L	---	---	---		--	--
Manganese, SPLP	mg/L	---	---	---		0.014	0.18
Mercury, SPLP	mg/L	---	---	---		--	--
Nickel, SPLP	mg/L	---	---	---		--	--
Potassium, SPLP	mg/L	---	---	---		--	--
Selenium, SPLP	mg/L	---	---	---		--	--
Silver, SPLP	mg/L	---	---	---		--	--
Sodium, SPLP	mg/L	---	---	---		--	--
Thallium, SPLP	mg/L	---	---	---		--	--
Vanadium, SPLP	mg/L	---	---	---		--	--
Zinc, SPLP	mg/L	---	---	---		--	--
Cyanide, SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic, TCLP	mg/L	---	---	---		<0.010	<0.010
Barium, TCLP	mg/L	---	---	---		0.41	0.57
Cadmium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium, TCLP	mg/L	---	---	---		<0.010	<0.010
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.020	<0.020
Silver, TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		420	250
Cobalt, TCLP	mg/L	---	---	---		<0.010	0.020
Copper, TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide, TCLP	mg/L	---	---	---		--	--
Iron, TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium, TCLP	mg/L	---	---	---		32	80
Manganese, TCLP	mg/L	---	---	---		3.4	6.5
Nickel, TCLP	mg/L	---	---	---		<0.010	0.011
Potassium, TCLP	mg/L	---	---	---		1.4	2.8
Sodium, TCLP	mg/L	---	---	---		--	--
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc, TCLP	mg/L	---	---	---		<0.020	0.063

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-6)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 5 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-6-B03 (0-6)
		Chicago	MSAs		Sample Depth (feet)	(0-6)
					Date Collected	12/18/2020
Volatile Organic Analytical Parameters						
Acetone	mg/kg	---	---	25		<0.0062
2-Butanone	mg/kg	---	---	17		<0.0016
Semivolatile Organic Analytical Parameters						
Acenaphthene	mg/kg	0.09	0.13	570		<0.0070
Anthracene	mg/kg	0.25	0.4	12000		<0.0065
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0053
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0076
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0085
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.012
Chrysene	mg/kg	1.2	2.7	88		<0.011
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0073
Fluorene	mg/kg	0.1	0.18	560		<0.0055
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0060
Phenanthrene	mg/kg	1.3	2.5	210		<0.0055
Pyrene	mg/kg	1.9	3.0	2300		<0.0078
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7.1
Barium	mg/kg	---	110	1500		59
Cadmium	mg/kg	---	0.6	5.2		<0.042
Chromium, total	mg/kg	---	16.2	21		21
Lead	mg/kg	---	36	107		17
Mercury	mg/kg	---	0.06	0.89		0.027
Selenium	mg/kg	---	0.48	1.3		<0.69
Silver	mg/kg	---	0.55	4.4		0.21
Antimony	mg/kg	---	4.0	5		<0.46
Beryllium	mg/kg	---	0.59	22		0.77
Calcium	mg/kg	---	9,300	---		64000
Cobalt	mg/kg	---	8.9	20		10
Copper	mg/kg	---	19.6	2900		23
Cyanide	mg/kg	---	0.51	---		<0.14
Iron	mg/kg	---	15,900	15000		21000
Magnesium	mg/kg	---	4,820	325000		36000
Manganese	mg/kg	---	636	630		370
Nickel	mg/kg	---	18	100		29
Potassium	mg/kg	---	1,268	---		3400
Sodium	mg/kg	---	130	---		250
Thallium	mg/kg	---	0.32	2.6		<0.59
Vanadium	mg/kg	---	25.2	550		28
Zinc	mg/kg	---	95	5100		69
pH			6.25	9		8.2

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-6)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 6 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-6-B03 (0-6)
		Chicago	MSAs		Sample Depth (feet)	(0-6)
					Date Collected	12/18/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		0.20
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.41
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		570
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		0.45
Magnesium,TCLP	mg/L	---	---	---		56
Manganese,TCLP	mg/L	---	---	---		1.3
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		1.5
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192810-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
1/6/2021 10:59:53 AM

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Job ID: 500-192810-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192810-1

Receipt

The samples were received on 12/18/2020 5:50 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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



Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6)

Lab Sample ID: 500-192810-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.016	0.0068	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.038	J	0.044	0.0079	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.028	J	0.044	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.037	J	0.044	0.0059	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.046		0.044	0.0086	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.070		0.044	0.0095	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.029	J	0.044	0.014	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.019	J	0.044	0.013	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.051		0.044	0.012	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.21		0.044	0.0082	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.042	J	0.044	0.0062	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.027	J	0.044	0.011	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.026	J	0.089	0.0081	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0099	J	0.044	0.0068	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.16		0.044	0.0062	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.17		0.044	0.0088	mg/Kg	1	✳	8270D	Total/NA
Arsenic	7.6		0.63	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	70		0.63	0.072	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.68		0.25	0.059	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.19		0.13	0.023	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.63	0.31	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.31	0.082	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		13	6.5	mg/Kg	1	✳	6010B	Total/NA
Lead	100		1.6	0.73	mg/Kg	5	✳	6010B	Total/NA
Magnesium	24000	B	6.3	3.1	mg/Kg	1	✳	6010B	Total/NA
Calcium	59000	B	63	11	mg/Kg	5	✳	6010B	Total/NA
Manganese	340	B	0.63	0.091	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA
Silver	0.27	J	0.31	0.081	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25		0.31	0.074	mg/Kg	1	✳	6010B	Total/NA
Zinc	82	B	1.3	0.55	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		31	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	290		63	9.3	mg/Kg	1	✳	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0079		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	39		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.072	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.022	0.0072	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.23	J	0.32	0.16	mg/Kg	1	✳	9012B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6) Dup

Lab Sample ID: 500-192810-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.017	0.0075	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.045		0.041	0.0075	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.066		0.041	0.0069	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.090		0.041	0.0056	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.11		0.041	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.041	0.0090	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.053		0.041	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.075		0.041	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.12		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.50		0.041	0.0077	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.045		0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.051		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.084	0.0076	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0082	J	0.041	0.0064	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.21		0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.40		0.041	0.0083	mg/Kg	1	✳	8270D	Total/NA
Arsenic	6.9		0.62	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	64		0.62	0.071	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.66		0.25	0.058	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.16		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.62	0.31	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.31	0.082	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.62	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		12	6.5	mg/Kg	1	✳	6010B	Total/NA
Lead	85		1.6	0.72	mg/Kg	5	✳	6010B	Total/NA
Magnesium	27000	B	6.2	3.1	mg/Kg	1	✳	6010B	Total/NA
Calcium	63000	B	62	11	mg/Kg	5	✳	6010B	Total/NA
Manganese	460	B	0.62	0.090	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.62	0.18	mg/Kg	1	✳	6010B	Total/NA
Silver	0.16	J	0.31	0.080	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.31	0.073	mg/Kg	1	✳	6010B	Total/NA
Zinc	79	B	1.2	0.55	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		31	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	280		62	9.2	mg/Kg	1	✳	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	420		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	24		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.7		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.030	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.012	J B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.020	0.0065	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.17	J	0.30	0.15	mg/Kg	1	✳	9012B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-6-B02 (0-7)

Lab Sample ID: 500-192810-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015		0.013	0.0058	mg/Kg	1	✳	8260B	Total/NA
Arsenic	7.0		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	57		0.55	0.062	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (0-7) (Continued)

Lab Sample ID: 500-192810-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.67		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.026	J	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	17		1.4	0.63	mg/Kg	5	✳	6010B	Total/NA
Magnesium	27000	B	5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Calcium	63000	B	55	9.3	mg/Kg	5	✳	6010B	Total/NA
Manganese	360	B	0.55	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Silver	0.22	J	0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.27	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	65	B	1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Potassium	2500		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	270		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	420		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.014	J B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-6-B02 (7-13)

Lab Sample ID: 500-192810-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.069		0.028	0.012	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.016		0.0070	0.0031	mg/Kg	1	✳	8260B	Total/NA
Fluoranthene	0.014	J	0.053	0.0098	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.0091	J	0.053	0.0074	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.013	J	0.053	0.011	mg/Kg	1	✳	8270D	Total/NA
Arsenic	7.1		0.74	0.25	mg/Kg	1	✳	6010B	Total/NA
Barium	120		0.74	0.085	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.83		0.30	0.069	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.21		0.15	0.027	mg/Kg	1	✳	6010B	Total/NA
Chromium	21		0.74	0.37	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.37	0.097	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.74	0.21	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		15	7.7	mg/Kg	1	✳	6010B	Total/NA
Lead	24		0.37	0.17	mg/Kg	1	✳	6010B	Total/NA
Magnesium	8500	B	7.4	3.7	mg/Kg	1	✳	6010B	Total/NA
Calcium	15000	B	15	2.5	mg/Kg	1	✳	6010B	Total/NA
Manganese	260	B	0.74	0.11	mg/Kg	1	✳	6010B	Total/NA
Nickel	32		0.74	0.22	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.90		0.74	0.44	mg/Kg	1	✳	6010B	Total/NA
Silver	0.35	J	0.37	0.096	mg/Kg	1	✳	6010B	Total/NA
Vanadium	32		0.37	0.088	mg/Kg	1	✳	6010B	Total/NA
Zinc	86	B	1.5	0.65	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200		37	13	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (7-13) (Continued)

Lab Sample ID: 500-192810-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	350		74	11	mg/Kg	1	✳	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	80		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.063	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.044		0.026	0.0087	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.41		0.37	0.18	mg/Kg	1	✳	9012B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-6-B03 (0-6)

Lab Sample ID: 500-192810-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		1.2	0.40	mg/Kg	1	✳	6010B	Total/NA
Barium	59		1.2	0.13	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.77		0.47	0.11	mg/Kg	1	✳	6010B	Total/NA
Chromium	21		1.2	0.58	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.59	0.15	mg/Kg	1	✳	6010B	Total/NA
Copper	23		1.2	0.33	mg/Kg	1	✳	6010B	Total/NA
Iron	21000		24	12	mg/Kg	1	✳	6010B	Total/NA
Lead	17		0.59	0.27	mg/Kg	1	✳	6010B	Total/NA
Magnesium	36000	B	12	5.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	64000	B	24	4.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	370	B	1.2	0.17	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		1.2	0.34	mg/Kg	1	✳	6010B	Total/NA
Silver	0.21	J	0.59	0.15	mg/Kg	1	✳	6010B	Total/NA
Vanadium	28		0.59	0.14	mg/Kg	1	✳	6010B	Total/NA
Zinc	69	B	2.4	1.0	mg/Kg	1	✳	6010B	Total/NA
Potassium	3400		59	21	mg/Kg	1	✳	6010B	Total/NA
Sodium	250		120	17	mg/Kg	1	✳	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	570		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.45		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	56		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.20	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6)

Lab Sample ID: 500-192810-1

Date Collected: 12/18/20 09:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.016	0.0068	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Carbon disulfide	<0.00082		0.0039	0.00082	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	12/19/20 16:35	12/28/20 16:41	1
Dibromofluoromethane	101		75 - 126	12/19/20 16:35	12/28/20 16:41	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	12/19/20 16:35	12/28/20 16:41	1
Toluene-d8 (Surr)	95		75 - 124	12/19/20 16:35	12/28/20 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.038	J	0.044	0.0079	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Acenaphthylene	<0.0058		0.044	0.0058	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Anthracene	0.028	J	0.044	0.0074	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Benzo[a]anthracene	0.037	J	0.044	0.0059	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6)

Lab Sample ID: 500-192810-1

Date Collected: 12/18/20 09:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.046		0.044	0.0086	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Benzo[b]fluoranthene	0.070		0.044	0.0095	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Benzo[g,h,i]perylene	0.029	J	0.044	0.014	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Benzo[k]fluoranthene	0.019	J	0.044	0.013	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Bis(2-chloroethoxy)methane	<0.045		0.22	0.045	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Bis(2-chloroethyl)ether	<0.066		0.22	0.066	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Bis(2-ethylhexyl) phthalate	<0.081		0.22	0.081	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
4-Bromophenyl phenyl ether	<0.058		0.22	0.058	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Butyl benzyl phthalate	<0.084		0.22	0.084	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Carbazole	<0.11		0.22	0.11	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
4-Chloroaniline	<0.21		0.89	0.21	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
4-Chloro-3-methylphenol	<0.15		0.44	0.15	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2-Chloronaphthalene	<0.049		0.22	0.049	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2-Chlorophenol	<0.075		0.22	0.075	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
4-Chlorophenyl phenyl ether	<0.052		0.22	0.052	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Chrysene	0.051		0.044	0.012	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Dibenz(a,h)anthracene	<0.0085		0.044	0.0085	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Dibenzofuran	<0.052		0.22	0.052	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
1,2-Dichlorobenzene	<0.053		0.22	0.053	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
1,3-Dichlorobenzene	<0.050		0.22	0.050	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
1,4-Dichlorobenzene	<0.057		0.22	0.057	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
3,3'-Dichlorobenzidine	<0.062		0.22	0.062	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2,4-Dichlorophenol	<0.10		0.44	0.10	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Diethyl phthalate	<0.075		0.22	0.075	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2,4-Dimethylphenol	<0.17		0.44	0.17	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Dimethyl phthalate	<0.058		0.22	0.058	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Di-n-butyl phthalate	<0.067		0.22	0.067	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
4,6-Dinitro-2-methylphenol	<0.36		0.89	0.36	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2,4-Dinitrophenol	<0.78		0.89	0.78	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2,4-Dinitrotoluene	<0.070		0.22	0.070	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2,6-Dinitrotoluene	<0.087		0.22	0.087	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Di-n-octyl phthalate	<0.072		0.22	0.072	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Fluoranthene	0.21		0.044	0.0082	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Fluorene	0.042	J	0.044	0.0062	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Hexachlorobenzene	<0.010		0.089	0.010	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Hexachlorobutadiene	<0.069		0.22	0.069	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Hexachlorocyclopentadiene	<0.25		0.89	0.25	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Hexachloroethane	<0.067		0.22	0.067	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Indeno[1,2,3-cd]pyrene	0.027	J	0.044	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Isophorone	<0.050		0.22	0.050	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2-Methylnaphthalene	0.026	J	0.089	0.0081	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2-Methylphenol	<0.071		0.22	0.071	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
3 & 4 Methylphenol	<0.074		0.22	0.074	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Naphthalene	0.0099	J	0.044	0.0068	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2-Nitroaniline	<0.059		0.22	0.059	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
3-Nitroaniline	<0.14		0.44	0.14	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
4-Nitroaniline	<0.18		0.44	0.18	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Nitrobenzene	<0.011		0.044	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2-Nitrophenol	<0.10		0.44	0.10	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6)

Lab Sample ID: 500-192810-1

Date Collected: 12/18/20 09:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.42		0.89	0.42	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
N-Nitrosodi-n-propylamine	<0.054		0.089	0.054	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
N-Nitrosodiphenylamine	<0.052		0.22	0.052	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2,2'-oxybis[1-chloropropane]	<0.051		0.22	0.051	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Pentachlorophenol	<0.71		0.89	0.71	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Phenanthrene	0.16		0.044	0.0062	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Phenol	<0.098		0.22	0.098	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Pyrene	0.17		0.044	0.0088	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
1,2,4-Trichlorobenzene	<0.048		0.22	0.048	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2,4,5-Trichlorophenol	<0.10		0.44	0.10	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
2,4,6-Trichlorophenol	<0.15		0.44	0.15	mg/Kg	☼	12/30/20 16:55	12/31/20 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		43 - 145				12/30/20 16:55	12/31/20 12:37	1
2-Fluorophenol	66		31 - 166				12/30/20 16:55	12/31/20 12:37	1
Nitrobenzene-d5	73		37 - 147				12/30/20 16:55	12/31/20 12:37	1
Phenol-d5	70		30 - 153				12/30/20 16:55	12/31/20 12:37	1
Terphenyl-d14	76		42 - 157				12/30/20 16:55	12/31/20 12:37	1
2,4,6-Tribromophenol	81		31 - 143				12/30/20 16:55	12/31/20 12:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24		1.3	0.24	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Arsenic	7.6		0.63	0.21	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Barium	70		0.63	0.072	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Beryllium	0.68		0.25	0.059	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Cadmium	0.19		0.13	0.023	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Chromium	18		0.63	0.31	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Cobalt	11		0.31	0.082	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Copper	22		0.63	0.18	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Iron	18000		13	6.5	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Lead	100		1.6	0.73	mg/Kg	☼	12/28/20 18:57	12/31/20 18:26	5
Magnesium	24000 B		6.3	3.1	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Calcium	59000 B		63	11	mg/Kg	☼	12/28/20 18:57	12/31/20 18:26	5
Manganese	340 B		0.63	0.091	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Nickel	29		0.63	0.18	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Selenium	<0.37		0.63	0.37	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Silver	0.27 J		0.31	0.081	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Thallium	<0.31		0.63	0.31	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Vanadium	25		0.31	0.074	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Zinc	82 B		1.3	0.55	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Potassium	2400		31	11	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1
Sodium	290		63	9.3	mg/Kg	☼	12/28/20 18:57	12/31/20 02:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 22:58	1
Barium	0.58		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 22:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 22:58	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 22:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6)

Lab Sample ID: 500-192810-1

Date Collected: 12/18/20 09:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	440		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 22:58	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:58	1
Cobalt	0.021	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:58	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:58	1
Iron	<0.20		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 22:58	1
Lead	0.0079		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 22:58	1
Magnesium	39		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:58	1
Manganese	4.7		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:58	1
Nickel	0.017	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:58	1
Potassium	2.9		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:58	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 22:58	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:58	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:58	1
Zinc	0.072	J	0.50	0.020	mg/L		12/30/20 17:33	12/31/20 22:58	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:37	01/01/21 01:03	1
Manganese	0.019	J	0.025	0.010	mg/L		12/30/20 17:37	01/01/21 01:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.022	0.0072	mg/Kg	✱	12/28/20 13:30	12/29/20 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.23	J	0.32	0.16	mg/Kg	✱	12/28/20 10:55	12/28/20 12:52	1
pH	8.1		0.2	0.2	SU			12/23/20 16:25	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6) Dup

Lab Sample ID: 500-192810-2

Date Collected: 12/18/20 09:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014	J	0.017	0.0075	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
1,2-Dichloropropene	<0.00045		0.0017	0.00045	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1
Xylenes, Total	<0.00055		0.0035	0.00055	mg/Kg	✳	12/19/20 16:35	12/28/20 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	12/19/20 16:35	12/28/20 17:06	1
Dibromofluoromethane	102		75 - 126	12/19/20 16:35	12/28/20 17:06	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	12/19/20 16:35	12/28/20 17:06	1
Toluene-d8 (Surr)	94		75 - 124	12/19/20 16:35	12/28/20 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.045		0.041	0.0075	mg/Kg	✳	12/30/20 16:55	12/31/20 13:02	1
Acenaphthylene	<0.0055		0.041	0.0055	mg/Kg	✳	12/30/20 16:55	12/31/20 13:02	1
Anthracene	0.066		0.041	0.0069	mg/Kg	✳	12/30/20 16:55	12/31/20 13:02	1
Benzo[a]anthracene	0.090		0.041	0.0056	mg/Kg	✳	12/30/20 16:55	12/31/20 13:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6) Dup

Lab Sample ID: 500-192810-2

Date Collected: 12/18/20 09:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.11		0.041	0.0080	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Benzo[b]fluoranthene	0.17		0.041	0.0090	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Benzo[g,h,i]perylene	0.053		0.041	0.013	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Benzo[k]fluoranthene	0.075		0.041	0.012	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Chrysene	0.12		0.041	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Dibenz(a,h)anthracene	<0.0080		0.041	0.0080	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2,4-Dichlorophenol	<0.099		0.41	0.099	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
4,6-Dinitro-2-methylphenol	<0.33		0.84	0.33	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2,4-Dinitrophenol	<0.73		0.84	0.73	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Fluoranthene	0.50		0.041	0.0077	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Fluorene	0.045		0.041	0.0058	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Hexachlorobenzene	<0.0096		0.084	0.0096	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Indeno[1,2,3-cd]pyrene	0.051		0.041	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2-Methylnaphthalene	0.016 J		0.084	0.0076	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Naphthalene	0.0082 J		0.041	0.0064	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6) Dup

Lab Sample ID: 500-192810-2

Date Collected: 12/18/20 09:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Phenanthrene	0.21		0.041	0.0058	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Pyrene	0.40		0.041	0.0083	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2,4,5-Trichlorophenol	<0.095		0.41	0.095	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	12/30/20 16:55	12/31/20 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		43 - 145				12/30/20 16:55	12/31/20 13:02	1
2-Fluorophenol	69		31 - 166				12/30/20 16:55	12/31/20 13:02	1
Nitrobenzene-d5	72		37 - 147				12/30/20 16:55	12/31/20 13:02	1
Phenol-d5	70		30 - 153				12/30/20 16:55	12/31/20 13:02	1
Terphenyl-d14	75		42 - 157				12/30/20 16:55	12/31/20 13:02	1
2,4,6-Tribromophenol	78		31 - 143				12/30/20 16:55	12/31/20 13:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24		1.2	0.24	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Arsenic	6.9		0.62	0.21	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Barium	64		0.62	0.071	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Beryllium	0.66		0.25	0.058	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Cadmium	0.16		0.12	0.022	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Chromium	17		0.62	0.31	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Cobalt	11		0.31	0.082	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Copper	21		0.62	0.17	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Iron	18000		12	6.5	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Lead	85		1.6	0.72	mg/Kg	☼	12/28/20 18:57	12/31/20 18:29	5
Magnesium	27000 B		6.2	3.1	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Calcium	63000 B		62	11	mg/Kg	☼	12/28/20 18:57	12/31/20 18:29	5
Manganese	460 B		0.62	0.090	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Nickel	28		0.62	0.18	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Selenium	<0.37		0.62	0.37	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Silver	0.16 J		0.31	0.080	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Thallium	<0.31		0.62	0.31	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Vanadium	24		0.31	0.073	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Zinc	79 B		1.2	0.55	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Potassium	2400		31	11	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1
Sodium	280		62	9.2	mg/Kg	☼	12/28/20 18:57	12/31/20 02:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 23:01	1
Barium	0.46 J		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 23:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 23:01	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 23:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6) Dup

Lab Sample ID: 500-192810-2

Date Collected: 12/18/20 09:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	420		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 23:01	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:01	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:01	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:01	1
Iron	<0.20		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 23:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 23:01	1
Magnesium	24		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:01	1
Manganese	2.7		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:01	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:01	1
Potassium	2.5		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:01	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 23:01	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:01	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:01	1
Zinc	0.030	J	0.50	0.020	mg/L		12/30/20 17:33	12/31/20 23:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.012	J B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.0065	mg/Kg	☼	12/28/20 13:30	12/29/20 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.17	J	0.30	0.15	mg/Kg	☼	12/28/20 10:55	12/28/20 12:54	1
pH	7.9		0.2	0.2	SU			12/23/20 16:28	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (0-7)

Lab Sample ID: 500-192810-3

Date Collected: 12/18/20 09:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.013	0.0058	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Benzene	<0.00034		0.0013	0.00034	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Bromodichloromethane	<0.00027		0.0013	0.00027	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Bromoform	<0.00039		0.0013	0.00039	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Bromomethane	<0.0012		0.0033	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
2-Butanone (MEK)	<0.0015		0.0033	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Carbon disulfide	<0.00069		0.0033	0.00069	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Carbon tetrachloride	<0.00038		0.0013	0.00038	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Chlorobenzene	<0.00049		0.0013	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Chloroethane	<0.00098		0.0033	0.00098	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Chloroform	<0.00046		0.0013	0.00046	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Chloromethane	<0.0013		0.0033	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
cis-1,2-Dichloroethene	<0.00037		0.0013	0.00037	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
cis-1,3-Dichloropropene	<0.00040		0.0013	0.00040	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Dibromochloromethane	<0.00043		0.0013	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
1,1-Dichloroethane	<0.00045		0.0013	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
1,2-Dichloroethane	<0.0010		0.0033	0.0010	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
1,1-Dichloroethene	<0.00045		0.0013	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
1,2-Dichloropropene	<0.00034		0.0013	0.00034	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
1,3-Dichloropropene, Total	<0.00046		0.0013	0.00046	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Ethylbenzene	<0.00063		0.0013	0.00063	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
2-Hexanone	<0.0010		0.0033	0.0010	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Methylene Chloride	<0.0013		0.0033	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
4-Methyl-2-pentanone (MIBK)	<0.00098		0.0033	0.00098	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Methyl tert-butyl ether	<0.00039		0.0013	0.00039	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Styrene	<0.00040		0.0013	0.00040	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
1,1,2,2-Tetrachloroethane	<0.00042		0.0013	0.00042	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Tetrachloroethene	<0.00045		0.0013	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Toluene	<0.00033		0.0013	0.00033	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
trans-1,2-Dichloroethene	<0.00059		0.0013	0.00059	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
trans-1,3-Dichloropropene	<0.00046		0.0013	0.00046	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
1,1,1-Trichloroethane	<0.00044		0.0013	0.00044	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
1,1,2-Trichloroethane	<0.00057		0.0013	0.00057	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Trichloroethene	<0.00045		0.0013	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Vinyl acetate	<0.0011		0.0033	0.0011	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Vinyl chloride	<0.00058		0.0013	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1
Xylenes, Total	<0.00042		0.0026	0.00042	mg/Kg	☼	12/19/20 16:35	12/28/20 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	12/19/20 16:35	12/28/20 17:31	1
Dibromofluoromethane	103		75 - 126	12/19/20 16:35	12/28/20 17:31	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	12/19/20 16:35	12/28/20 17:31	1
Toluene-d8 (Surr)	93		75 - 124	12/19/20 16:35	12/28/20 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Benzo[a]anthracene	<0.0052		0.039	0.0052	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (0-7)

Lab Sample ID: 500-192810-3

Date Collected: 12/18/20 09:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0075		0.039	0.0075	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Benzo[b]fluoranthene	<0.0084		0.039	0.0084	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Bis(2-chloroethyl)ether	<0.058	F2	0.20	0.058	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
1,2-Dichlorobenzene	<0.046	F1	0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
1,3-Dichlorobenzene	<0.044	F1	0.20	0.044	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
1,4-Dichlorobenzene	<0.050	F1	0.20	0.050	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Fluoranthene	<0.0072		0.039	0.0072	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Hexachlorocyclopentadiene	<0.22	F2	0.78	0.22	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Hexachloroethane	<0.059	F1	0.20	0.059	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2-Methylnaphthalene	<0.0071	F1	0.078	0.0071	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Naphthalene	<0.0060	F1	0.039	0.0060	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	12/30/20 16:55	12/31/20 11:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (0-7)

Lab Sample ID: 500-192810-3

Date Collected: 12/18/20 09:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
N-Nitrosodi-n-propylamine	<0.048		0.078	0.048	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
Phenanthrene	<0.0054		0.039	0.0054	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
Phenol	<0.086		0.20	0.086	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
Pyrene	<0.0077		0.039	0.0077	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
1,2,4-Trichlorobenzene	<0.042	F1	0.20	0.042	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	✳	12/30/20 16:55	12/31/20 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		43 - 145	12/30/20 16:55	12/31/20 11:48	1
2-Fluorophenol	69		31 - 166	12/30/20 16:55	12/31/20 11:48	1
Nitrobenzene-d5	75		37 - 147	12/30/20 16:55	12/31/20 11:48	1
Phenol-d5	74		30 - 153	12/30/20 16:55	12/31/20 11:48	1
Terphenyl-d14	79		42 - 157	12/30/20 16:55	12/31/20 11:48	1
2,4,6-Tribromophenol	90		31 - 143	12/30/20 16:55	12/31/20 11:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21		1.1	0.21	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Arsenic	7.0		0.55	0.19	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Barium	57		0.55	0.062	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Beryllium	0.67		0.22	0.051	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Cadmium	0.026	J	0.11	0.020	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Chromium	17		0.55	0.27	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Cobalt	12		0.27	0.072	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Copper	21		0.55	0.15	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Iron	19000		11	5.7	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Lead	17		1.4	0.63	mg/Kg	✳	12/28/20 18:57	12/31/20 18:32	5
Magnesium	27000	B	5.5	2.7	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Calcium	63000	B	55	9.3	mg/Kg	✳	12/28/20 18:57	12/31/20 18:32	5
Manganese	360	B	0.55	0.079	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Nickel	31		0.55	0.16	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Selenium	<0.32		0.55	0.32	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Silver	0.22	J	0.27	0.071	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Thallium	<0.27		0.55	0.27	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Vanadium	24		0.27	0.065	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Zinc	65	B	1.1	0.48	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Potassium	2500		27	9.7	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1
Sodium	270		55	8.1	mg/Kg	✳	12/28/20 18:57	12/31/20 02:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 23:05	1
Barium	0.41	J	0.50	0.050	mg/L		12/30/20 17:33	12/31/20 23:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 23:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 23:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (0-7)

Lab Sample ID: 500-192810-3

Date Collected: 12/18/20 09:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	420		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 23:05	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:05	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:05	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:05	1
Iron	<0.20		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 23:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 23:05	1
Magnesium	32		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:05	1
Manganese	3.4		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:05	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:05	1
Potassium	1.4 J		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:05	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 23:05	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:05	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:05	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:33	12/31/20 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.014	J B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0059	mg/Kg	✱	12/28/20 13:30	12/29/20 08:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	✱	12/28/20 10:55	12/28/20 12:59	1
pH	8.3		0.2	0.2	SU			12/23/20 16:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (7-13)

Lab Sample ID: 500-192810-4

Date Collected: 12/18/20 09:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 62.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.069		0.028	0.012	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Benzene	<0.00071		0.0028	0.00071	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Bromodichloromethane	<0.00057		0.0028	0.00057	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Bromoform	<0.00081		0.0028	0.00081	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Bromomethane	<0.0026		0.0070	0.0026	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
2-Butanone (MEK)	0.016		0.0070	0.0031	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Carbon disulfide	<0.0015		0.0070	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Carbon tetrachloride	<0.00081		0.0028	0.00081	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Chlorobenzene	<0.0010		0.0028	0.0010	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Chloroethane	<0.0021		0.0070	0.0021	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Chloroform	<0.00097		0.0028	0.00097	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Chloromethane	<0.0028		0.0070	0.0028	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
cis-1,2-Dichloroethene	<0.00078		0.0028	0.00078	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
cis-1,3-Dichloropropene	<0.00084		0.0028	0.00084	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Dibromochloromethane	<0.00091		0.0028	0.00091	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
1,1-Dichloroethane	<0.00096		0.0028	0.00096	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
1,2-Dichloroethane	<0.0022		0.0070	0.0022	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
1,1-Dichloroethene	<0.00096		0.0028	0.00096	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
1,2-Dichloropropene	<0.00072		0.0028	0.00072	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
1,3-Dichloropropene, Total	<0.00098		0.0028	0.00098	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Ethylbenzene	<0.0013		0.0028	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
2-Hexanone	<0.0022		0.0070	0.0022	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Methylene Chloride	<0.0027		0.0070	0.0027	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
4-Methyl-2-pentanone (MIBK)	<0.0021		0.0070	0.0021	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Methyl tert-butyl ether	<0.00082		0.0028	0.00082	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Styrene	<0.00084		0.0028	0.00084	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
1,1,2,2-Tetrachloroethane	<0.00089		0.0028	0.00089	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Tetrachloroethene	<0.00095		0.0028	0.00095	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Toluene	<0.00070		0.0028	0.00070	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
trans-1,2-Dichloroethene	<0.0012		0.0028	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
trans-1,3-Dichloropropene	<0.00098		0.0028	0.00098	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
1,1,1-Trichloroethane	<0.00094		0.0028	0.00094	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
1,1,2-Trichloroethane	<0.0012		0.0028	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Trichloroethene	<0.00094		0.0028	0.00094	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Vinyl acetate	<0.0024		0.0070	0.0024	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Vinyl chloride	<0.0012		0.0028	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1
Xylenes, Total	<0.00089		0.0056	0.00089	mg/Kg	☼	12/19/20 16:35	12/28/20 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	12/19/20 16:35	12/28/20 17:56	1
Dibromofluoromethane	101		75 - 126	12/19/20 16:35	12/28/20 17:56	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	12/19/20 16:35	12/28/20 17:56	1
Toluene-d8 (Surr)	95		75 - 124	12/19/20 16:35	12/28/20 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0095		0.053	0.0095	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
Acenaphthylene	<0.0070		0.053	0.0070	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
Anthracene	<0.0089		0.053	0.0089	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
Benzo[a]anthracene	<0.0071		0.053	0.0071	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (7-13)

Lab Sample ID: 500-192810-4

Date Collected: 12/18/20 09:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 62.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.010		0.053	0.010	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Benzo[b]fluoranthene	<0.011		0.053	0.011	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Benzo[g,h,i]perylene	<0.017		0.053	0.017	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Benzo[k]fluoranthene	<0.016		0.053	0.016	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Bis(2-chloroethoxy)methane	<0.054		0.27	0.054	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Bis(2-chloroethyl)ether	<0.079		0.27	0.079	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Bis(2-ethylhexyl) phthalate	<0.097		0.27	0.097	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
4-Bromophenyl phenyl ether	<0.070		0.27	0.070	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Butyl benzyl phthalate	<0.10		0.27	0.10	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Carbazole	<0.13		0.27	0.13	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
4-Chloroaniline	<0.25		1.1	0.25	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
4-Chloro-3-methylphenol	<0.18		0.53	0.18	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2-Chloronaphthalene	<0.059		0.27	0.059	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2-Chlorophenol	<0.090		0.27	0.090	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
4-Chlorophenyl phenyl ether	<0.062		0.27	0.062	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Chrysene	<0.014		0.053	0.014	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Dibenz(a,h)anthracene	<0.010		0.053	0.010	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Dibenzofuran	<0.062		0.27	0.062	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
1,2-Dichlorobenzene	<0.063		0.27	0.063	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
1,3-Dichlorobenzene	<0.060		0.27	0.060	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
1,4-Dichlorobenzene	<0.068		0.27	0.068	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
3,3'-Dichlorobenzidine	<0.074		0.27	0.074	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2,4-Dichlorophenol	<0.13		0.53	0.13	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Diethyl phthalate	<0.090		0.27	0.090	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2,4-Dimethylphenol	<0.20		0.53	0.20	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Dimethyl phthalate	<0.069		0.27	0.069	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Di-n-butyl phthalate	<0.081		0.27	0.081	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
4,6-Dinitro-2-methylphenol	<0.43		1.1	0.43	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2,4-Dinitrophenol	<0.93		1.1	0.93	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2,4-Dinitrotoluene	<0.084		0.27	0.084	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2,6-Dinitrotoluene	<0.10		0.27	0.10	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Di-n-octyl phthalate	<0.087		0.27	0.087	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Fluoranthene	0.014 J		0.053	0.0098	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Fluorene	<0.0075		0.053	0.0075	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Hexachlorobenzene	<0.012		0.11	0.012	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Hexachlorobutadiene	<0.083		0.27	0.083	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Hexachlorocyclopentadiene	<0.30		1.1	0.30	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Hexachloroethane	<0.081		0.27	0.081	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Indeno[1,2,3-cd]pyrene	<0.014		0.053	0.014	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Isophorone	<0.060		0.27	0.060	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2-Methylnaphthalene	<0.0098		0.11	0.0098	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2-Methylphenol	<0.085		0.27	0.085	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
3 & 4 Methylphenol	<0.088		0.27	0.088	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Naphthalene	<0.0082		0.053	0.0082	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2-Nitroaniline	<0.071		0.27	0.071	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
3-Nitroaniline	<0.16		0.53	0.16	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
4-Nitroaniline	<0.22		0.53	0.22	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
Nitrobenzene	<0.013		0.053	0.013	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1
2-Nitrophenol	<0.13		0.53	0.13	mg/Kg	✱	12/30/20 16:55	12/31/20 12:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (7-13)

Lab Sample ID: 500-192810-4

Date Collected: 12/18/20 09:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 62.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.50		1.1	0.50	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
N-Nitrosodi-n-propylamine	<0.065		0.11	0.065	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
N-Nitrosodiphenylamine	<0.063		0.27	0.063	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
2,2'-oxybis[1-chloropropane]	<0.061		0.27	0.061	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
Pentachlorophenol	<0.85		1.1	0.85	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
Phenanthrene	0.0091	J	0.053	0.0074	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
Phenol	<0.12		0.27	0.12	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
Pyrene	0.013	J	0.053	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
1,2,4-Trichlorobenzene	<0.057		0.27	0.057	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
2,4,5-Trichlorophenol	<0.12		0.53	0.12	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
2,4,6-Trichlorophenol	<0.18		0.53	0.18	mg/Kg	☼	12/30/20 16:55	12/31/20 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		43 - 145				12/30/20 16:55	12/31/20 12:13	1
2-Fluorophenol	57		31 - 166				12/30/20 16:55	12/31/20 12:13	1
Nitrobenzene-d5	59		37 - 147				12/30/20 16:55	12/31/20 12:13	1
Phenol-d5	63		30 - 153				12/30/20 16:55	12/31/20 12:13	1
Terphenyl-d14	70		42 - 157				12/30/20 16:55	12/31/20 12:13	1
2,4,6-Tribromophenol	75		31 - 143				12/30/20 16:55	12/31/20 12:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.29		1.5	0.29	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Arsenic	7.1		0.74	0.25	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Barium	120		0.74	0.085	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Beryllium	0.83		0.30	0.069	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Cadmium	0.21		0.15	0.027	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Chromium	21		0.74	0.37	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Cobalt	14		0.37	0.097	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Copper	23		0.74	0.21	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Iron	19000		15	7.7	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Lead	24		0.37	0.17	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Magnesium	8500	B	7.4	3.7	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Calcium	15000	B	15	2.5	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Manganese	260	B	0.74	0.11	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Nickel	32		0.74	0.22	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Selenium	0.90		0.74	0.44	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Silver	0.35	J	0.37	0.096	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Thallium	<0.37		0.74	0.37	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Vanadium	32		0.37	0.088	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Zinc	86	B	1.5	0.65	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Potassium	2200		37	13	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1
Sodium	350		74	11	mg/Kg	☼	12/28/20 18:57	12/31/20 02:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 23:08	1
Barium	0.57		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 23:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 23:08	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 23:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (7-13)

Lab Sample ID: 500-192810-4

Date Collected: 12/18/20 09:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 62.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 23:08	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:08	1
Cobalt	0.020	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:08	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:08	1
Iron	<0.20		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 23:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 23:08	1
Magnesium	80		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:08	1
Manganese	6.5		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:08	1
Nickel	0.011	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:08	1
Potassium	2.8		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:08	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 23:08	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:08	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:08	1
Zinc	0.063	J	0.50	0.020	mg/L		12/30/20 17:33	12/31/20 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18	B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.026	0.0087	mg/Kg	✱	12/28/20 13:30	12/29/20 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.41		0.37	0.18	mg/Kg	✱	12/28/20 10:55	12/28/20 13:01	1
pH	7.2		0.2	0.2	SU			12/23/20 16:33	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B03 (0-6)

Lab Sample ID: 500-192810-5

Date Collected: 12/18/20 08:40

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0062		0.014	0.0062	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Benzene	<0.00036		0.0014	0.00036	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Bromodichloromethane	<0.00029		0.0014	0.00029	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Bromoform	<0.00042		0.0014	0.00042	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Bromomethane	<0.0013		0.0036	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
2-Butanone (MEK)	<0.0016		0.0036	0.0016	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Carbon disulfide	<0.00074		0.0036	0.00074	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Carbon tetrachloride	<0.00041		0.0014	0.00041	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Chlorobenzene	<0.00053		0.0014	0.00053	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Chloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Chloroform	<0.00049		0.0014	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Chloromethane	<0.0014		0.0036	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
cis-1,2-Dichloroethene	<0.00040		0.0014	0.00040	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
cis-1,3-Dichloropropene	<0.00043		0.0014	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Dibromochloromethane	<0.00047		0.0014	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
1,1-Dichloroethane	<0.00049		0.0014	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
1,2-Dichloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
1,1-Dichloroethene	<0.00049		0.0014	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
1,2-Dichloropropene	<0.00037		0.0014	0.00037	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
1,3-Dichloropropene, Total	<0.00050		0.0014	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Ethylbenzene	<0.00068		0.0014	0.00068	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
2-Hexanone	<0.0011		0.0036	0.0011	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Methylene Chloride	<0.0014		0.0036	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0036	0.0011	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Methyl tert-butyl ether	<0.00042		0.0014	0.00042	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Styrene	<0.00043		0.0014	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
1,1,2,2-Tetrachloroethane	<0.00045		0.0014	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Tetrachloroethene	<0.00048		0.0014	0.00048	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Toluene	<0.00036		0.0014	0.00036	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
trans-1,2-Dichloroethene	<0.00063		0.0014	0.00063	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
trans-1,3-Dichloropropene	<0.00050		0.0014	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
1,1,1-Trichloroethane	<0.00048		0.0014	0.00048	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
1,1,2-Trichloroethane	<0.00061		0.0014	0.00061	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Trichloroethene	<0.00048		0.0014	0.00048	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Vinyl acetate	<0.0012		0.0036	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Vinyl chloride	<0.00063		0.0014	0.00063	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1
Xylenes, Total	<0.00046		0.0028	0.00046	mg/Kg	☼	12/19/20 16:35	12/28/20 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	12/19/20 16:35	12/28/20 18:21	1
Dibromofluoromethane	102		75 - 126	12/19/20 16:35	12/28/20 18:21	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	12/19/20 16:35	12/28/20 18:21	1
Toluene-d8 (Surr)	92		75 - 124	12/19/20 16:35	12/28/20 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B03 (0-6)

Lab Sample ID: 500-192810-5

Date Collected: 12/18/20 08:40

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0076		0.039	0.0076	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B03 (0-6)

Lab Sample ID: 500-192810-5

Date Collected: 12/18/20 08:40

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Pyrene	<0.0078		0.039	0.0078	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	12/30/20 16:55	12/31/20 10:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		43 - 145				12/30/20 16:55	12/31/20 10:45	1
2-Fluorophenol	58		31 - 166				12/30/20 16:55	12/31/20 10:45	1
Nitrobenzene-d5	63		37 - 147				12/30/20 16:55	12/31/20 10:45	1
Phenol-d5	67		30 - 153				12/30/20 16:55	12/31/20 10:45	1
Terphenyl-d14	81		42 - 157				12/30/20 16:55	12/31/20 10:45	1
2,4,6-Tribromophenol	58		31 - 143				12/30/20 16:55	12/31/20 10:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.46		2.4	0.46	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Arsenic	7.1		1.2	0.40	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Barium	59		1.2	0.13	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Beryllium	0.77		0.47	0.11	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Cadmium	<0.042		0.24	0.042	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Chromium	21		1.2	0.58	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Cobalt	10		0.59	0.15	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Copper	23		1.2	0.33	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Iron	21000		24	12	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Lead	17		0.59	0.27	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Magnesium	36000 B		12	5.8	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Calcium	64000 B		24	4.0	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Manganese	370 B		1.2	0.17	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Nickel	29		1.2	0.34	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Selenium	<0.69		1.2	0.69	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Silver	0.21 J		0.59	0.15	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Thallium	<0.59		1.2	0.59	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Vanadium	28		0.59	0.14	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Zinc	69 B		2.4	1.0	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Potassium	3400		59	21	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1
Sodium	250		120	17	mg/Kg	☼	12/28/20 18:57	12/31/20 02:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 23:11	1
Barium	0.41 J		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 23:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 23:11	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 23:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B03 (0-6)

Lab Sample ID: 500-192810-5

Date Collected: 12/18/20 08:40

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	570		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 23:11	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:11	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:11	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:11	1
Iron	0.45		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 23:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 23:11	1
Magnesium	56		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:11	1
Manganese	1.3		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:11	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:11	1
Potassium	1.5 J		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:11	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 23:11	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:11	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:11	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:33	12/31/20 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.20	B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:19	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 11:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0060	mg/Kg	☼	12/28/20 13:30	12/29/20 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☼	12/28/20 10:55	12/28/20 13:02	1
pH	8.2		0.2	0.2	SU			12/23/20 16:35	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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)
500-192810-1	3972-COV-6-B01 (0-6)	83	101	102	95
500-192810-2	3972-COV-6-B01 (0-6) Dup	83	102	100	94
500-192810-3	3972-COV-6-B02 (0-7)	87	103	103	93
500-192810-4	3972-COV-6-B02 (7-13)	87	101	103	95
500-192810-5	3972-COV-6-B03 (0-6)	85	102	103	92
LCS 500-578587/4	Lab Control Sample	83	93	86	96
LCS 500-578587/5	Lab Control Sample Dup	75	93	88	111
MB 500-578587/7	Method Blank	87	96	89	94

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-192810-1	3972-COV-6-B01 (0-6)	74	66	73	70	76	81
500-192810-2	3972-COV-6-B01 (0-6) Dup	70	69	72	70	75	78
500-192810-3	3972-COV-6-B02 (0-7)	71	69	75	74	79	90
500-192810-3 MS	3972-COV-6-B02 (0-7)	74	68	70	72	74	78
500-192810-3 MSD	3972-COV-6-B02 (0-7)	72	67	68	69	77	78
500-192810-4	3972-COV-6-B02 (7-13)	61	57	59	63	70	75
500-192810-5	3972-COV-6-B03 (0-6)	63	58	63	67	81	58
LCS 500-579174/2-A	Lab Control Sample	110	77	99	90	92	89
MB 500-579174/1-A	Method Blank	86	66	82	74	90	69

Surrogate Legend

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: MB 500-578587/7
Matrix: Solid
Analysis Batch: 578587

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/28/20 11:15	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/28/20 11:15	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/28/20 11:15	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/28/20 11:15	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/28/20 11:15	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/28/20 11:15	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/28/20 11:15	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/28/20 11:15	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/28/20 11:15	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/28/20 11:15	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/28/20 11:15	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/28/20 11:15	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/28/20 11:15	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/28/20 11:15	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/28/20 11:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	87		75 - 131		12/28/20 11:15	1
Dibromofluoromethane	96		75 - 126		12/28/20 11:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		12/28/20 11:15	1
Toluene-d8 (Surr)	94		75 - 124		12/28/20 11:15	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: LCS 500-578587/4

Matrix: Solid

Analysis Batch: 578587

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	0.0432		mg/Kg		86	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0444		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0508		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0469		mg/Kg		94	70 - 130
2-Butanone (MEK)	0.0500	0.0383		mg/Kg		77	47 - 138
Carbon disulfide	0.0500	0.0425		mg/Kg		85	70 - 129
Carbon tetrachloride	0.0500	0.0436		mg/Kg		87	75 - 125
Chlorobenzene	0.0500	0.0464		mg/Kg		93	50 - 150
Chloroethane	0.0500	0.0472		mg/Kg		94	75 - 125
Chloroform	0.0500	0.0439		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0389		mg/Kg		78	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0427		mg/Kg		85	70 - 125
1,2-Dichloroethane	0.0500	0.0419		mg/Kg		84	70 - 130
1,1-Dichloroethene	0.0500	0.0432		mg/Kg		86	70 - 120
1,2-Dichloropropane	0.0500	0.0444		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0477		mg/Kg		95	61 - 136
2-Hexanone	0.0500	0.0441		mg/Kg		88	48 - 146
Methylene Chloride	0.0500	0.0438		mg/Kg		88	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0435		mg/Kg		87	50 - 148
Methyl tert-butyl ether	0.0500	0.0402		mg/Kg		80	50 - 140
Styrene	0.0500	0.0456		mg/Kg		91	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0417		mg/Kg		83	70 - 122
Tetrachloroethene	0.0500	0.0507		mg/Kg		101	70 - 124
Toluene	0.0500	0.0443		mg/Kg		89	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0437		mg/Kg		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,1-Trichloroethane	0.0500	0.0428		mg/Kg		86	70 - 128
1,1,2-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 125
Trichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0416		mg/Kg		83	40 - 153
Vinyl chloride	0.0500	0.0375		mg/Kg		75	70 - 125
Xylenes, Total	0.100	0.0858		mg/Kg		86	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: LCSD 500-578587/5
Matrix: Solid
Analysis Batch: 578587

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	0.0412		mg/Kg		82	40 - 150	5	30
Benzene	0.0500	0.0451		mg/Kg		90	70 - 125	4	30
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	67 - 129	2	30
Bromoform	0.0500	0.0544		mg/Kg		109	68 - 136	7	30
Bromomethane	0.0500	0.0440		mg/Kg		88	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0406		mg/Kg		81	47 - 138	6	30
Carbon disulfide	0.0500	0.0446		mg/Kg		89	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0453		mg/Kg		91	75 - 125	4	30
Chlorobenzene	0.0500	0.0472		mg/Kg		94	50 - 150	2	30
Chloroethane	0.0500	0.0469		mg/Kg		94	75 - 125	1	30
Chloroform	0.0500	0.0458		mg/Kg		92	57 - 135	4	30
Chloromethane	0.0500	0.0408		mg/Kg		82	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 125	5	30
cis-1,3-Dichloropropene	0.0500	0.0538		mg/Kg		108	70 - 125	16	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0421		mg/Kg		84	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0466		mg/Kg		93	70 - 125	5	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136	4	30
2-Hexanone	0.0500	0.0486		mg/Kg		97	48 - 146	10	30
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	12	30
Methyl tert-butyl ether	0.0500	0.0421		mg/Kg		84	50 - 140	5	30
Styrene	0.0500	0.0470		mg/Kg		94	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0366		mg/Kg		73	70 - 122	13	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	16	30
Toluene	0.0500	0.0526		mg/Kg		105	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0468		mg/Kg		94	70 - 125	7	30
trans-1,3-Dichloropropene	0.0500	0.0525		mg/Kg		105	70 - 125	19	30
1,1,1-Trichloroethane	0.0500	0.0448		mg/Kg		90	70 - 128	5	30
1,1,2-Trichloroethane	0.0500	0.0570		mg/Kg		114	70 - 125	16	30
Trichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125	0	30
Vinyl acetate	0.0500	0.0355		mg/Kg		71	40 - 153	16	30
Vinyl chloride	0.0500	0.0399		mg/Kg		80	70 - 125	6	30
Xylenes, Total	0.100	0.0894		mg/Kg		89	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	75		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	88		70 - 134
Toluene-d8 (Surr)	111		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: MB 500-579174/1-A

Matrix: Solid

Analysis Batch: 579272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 579174

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/30/20 16:55	12/31/20 10:19	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: MB 500-579174/1-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/30/20 16:55	12/31/20 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		43 - 145	12/30/20 16:55	12/31/20 10:19	1
2-Fluorophenol	66		31 - 166	12/30/20 16:55	12/31/20 10:19	1
Nitrobenzene-d5	82		37 - 147	12/30/20 16:55	12/31/20 10:19	1
Phenol-d5	74		30 - 153	12/30/20 16:55	12/31/20 10:19	1
Terphenyl-d14	90		42 - 157	12/30/20 16:55	12/31/20 10:19	1
2,4,6-Tribromophenol	69		31 - 143	12/30/20 16:55	12/31/20 10:19	1

Lab Sample ID: LCS 500-579174/2-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.23		mg/Kg		93	65 - 124
Acenaphthylene	1.33	1.21		mg/Kg		91	68 - 120
Anthracene	1.33	1.22		mg/Kg		91	70 - 114
Benzo[a]anthracene	1.33	1.10		mg/Kg		83	67 - 122
Benzo[a]pyrene	1.33	1.31		mg/Kg		98	65 - 133
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	69 - 129
Benzo[g,h,i]perylene	1.33	1.36		mg/Kg		102	72 - 131
Benzo[k]fluoranthene	1.33	1.33		mg/Kg		100	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
Bis(2-chloroethyl)ether	1.33	1.12		mg/Kg		84	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.08		mg/Kg		81	72 - 131
4-Bromophenyl phenyl ether	1.33	1.17		mg/Kg		87	68 - 118
Butyl benzyl phthalate	1.33	1.05		mg/Kg		79	71 - 129
Carbazole	1.33	1.24		mg/Kg		93	65 - 142
4-Chloroaniline	1.33	1.08		mg/Kg		81	30 - 150
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	65 - 122
2-Chloronaphthalene	1.33	1.17		mg/Kg		88	69 - 114
2-Chlorophenol	1.33	0.970		mg/Kg		73	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: LCS 500-579174/2-A

Matrix: Solid

Analysis Batch: 579272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 579174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.20		mg/Kg		90	62 - 119
Chrysene	1.33	1.13		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.22		mg/Kg		91	66 - 115
1,2-Dichlorobenzene	1.33	1.02		mg/Kg		77	62 - 110
1,3-Dichlorobenzene	1.33	0.965		mg/Kg		72	65 - 124
1,4-Dichlorobenzene	1.33	0.990		mg/Kg		74	61 - 110
3,3'-Dichlorobenzidine	1.33	0.800		mg/Kg		60	35 - 128
2,4-Dichlorophenol	1.33	1.10		mg/Kg		82	58 - 120
Diethyl phthalate	1.33	1.39		mg/Kg		104	58 - 120
2,4-Dimethylphenol	1.33	1.05		mg/Kg		79	60 - 110
Dimethyl phthalate	1.33	1.29		mg/Kg		97	69 - 116
Di-n-butyl phthalate	1.33	1.19		mg/Kg		90	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.819		mg/Kg		31	10 - 110
2,4-Dinitrophenol	2.67	0.676		mg/Kg		25	10 - 100
2,4-Dinitrotoluene	1.33	1.29		mg/Kg		96	69 - 124
2,6-Dinitrotoluene	1.33	1.25		mg/Kg		94	70 - 123
Di-n-octyl phthalate	1.33	1.14		mg/Kg		86	68 - 134
Fluoranthene	1.33	1.24		mg/Kg		93	62 - 120
Fluorene	1.33	1.22		mg/Kg		92	62 - 120
Hexachlorobenzene	1.33	1.32		mg/Kg		99	63 - 124
Hexachlorobutadiene	1.33	1.14		mg/Kg		86	56 - 120
Hexachlorocyclopentadiene	1.33	0.651	J	mg/Kg		49	10 - 133
Hexachloroethane	1.33	1.03		mg/Kg		77	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.37		mg/Kg		103	68 - 130
Isophorone	1.33	1.32		mg/Kg		99	55 - 110
2-Methylnaphthalene	1.33	1.09		mg/Kg		81	69 - 112
2-Methylphenol	1.33	1.10		mg/Kg		83	60 - 120
3 & 4 Methylphenol	1.33	1.09		mg/Kg		82	57 - 120
Naphthalene	1.33	1.10		mg/Kg		83	63 - 110
2-Nitroaniline	1.33	1.38		mg/Kg		103	57 - 124
3-Nitroaniline	1.33	1.08		mg/Kg		81	40 - 122
4-Nitroaniline	1.33	1.14		mg/Kg		86	60 - 160
Nitrobenzene	1.33	1.20		mg/Kg		90	60 - 116
2-Nitrophenol	1.33	1.06		mg/Kg		80	60 - 120
4-Nitrophenol	2.67	2.88		mg/Kg		108	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.17		mg/Kg		88	56 - 118
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.25		mg/Kg		94	40 - 124
Pentachlorophenol	2.67	1.60		mg/Kg		60	13 - 112
Phenanthrene	1.33	1.19		mg/Kg		89	62 - 120
Phenol	1.33	1.11		mg/Kg		83	56 - 122
Pyrene	1.33	1.15		mg/Kg		86	61 - 128
1,2,4-Trichlorobenzene	1.33	1.07		mg/Kg		80	66 - 117
2,4,5-Trichlorophenol	1.33	1.24		mg/Kg		93	50 - 120
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: LCS 500-579174/2-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579174

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	110		43 - 145
2-Fluorophenol	77		31 - 166
Nitrobenzene-d5	99		37 - 147
Phenol-d5	90		30 - 153
Terphenyl-d14	92		42 - 157
2,4,6-Tribromophenol	89		31 - 143

Lab Sample ID: 500-192810-3 MS
Matrix: Solid
Analysis Batch: 579281

Client Sample ID: 3972-COV-6-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 579174

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	<0.0070		1.55	1.13		mg/Kg	✱	72	65 - 124
Acenaphthylene	<0.0051		1.55	1.10		mg/Kg	✱	71	68 - 120
Anthracene	<0.0065		1.55	1.19		mg/Kg	✱	77	70 - 114
Benzo[a]anthracene	<0.0052		1.55	1.09		mg/Kg	✱	70	67 - 122
Benzo[a]pyrene	<0.0075		1.55	1.25		mg/Kg	✱	80	65 - 133
Benzo[b]fluoranthene	<0.0084		1.55	1.27		mg/Kg	✱	81	69 - 129
Benzo[g,h,i]perylene	<0.013		1.55	1.34		mg/Kg	✱	86	72 - 131
Benzo[k]fluoranthene	<0.011		1.55	1.39		mg/Kg	✱	89	68 - 127
Bis(2-chloroethoxy)methane	<0.040		1.55	1.04		mg/Kg	✱	67	60 - 112
Bis(2-chloroethyl)ether	<0.058	F2	1.55	0.863		mg/Kg	✱	56	55 - 111
Bis(2-ethylhexyl) phthalate	<0.071		1.55	1.20		mg/Kg	✱	77	72 - 131
4-Bromophenyl phenyl ether	<0.051		1.55	1.31		mg/Kg	✱	84	68 - 118
Butyl benzyl phthalate	<0.074		1.55	1.12		mg/Kg	✱	72	71 - 129
Carbazole	<0.097		1.55	1.19		mg/Kg	✱	76	65 - 142
4-Chloroaniline	<0.18		1.55	1.06		mg/Kg	✱	68	30 - 150
4-Chloro-3-methylphenol	<0.13		1.55	1.30		mg/Kg	✱	84	65 - 122
2-Chloronaphthalene	<0.043		1.55	1.08		mg/Kg	✱	69	69 - 114
2-Chlorophenol	<0.066		1.55	1.06		mg/Kg	✱	68	64 - 110
4-Chlorophenyl phenyl ether	<0.045		1.55	1.21		mg/Kg	✱	78	62 - 119
Chrysene	<0.011		1.55	1.15		mg/Kg	✱	74	63 - 120
Dibenz(a,h)anthracene	<0.0075		1.55	1.32		mg/Kg	✱	85	64 - 131
Dibenzofuran	<0.046		1.55	1.18		mg/Kg	✱	76	66 - 115
1,2-Dichlorobenzene	<0.046	F1	1.55	0.779	F1	mg/Kg	✱	50	62 - 110
1,3-Dichlorobenzene	<0.044	F1	1.55	0.676	F1	mg/Kg	✱	44	60 - 110
1,4-Dichlorobenzene	<0.050	F1	1.55	0.708	F1	mg/Kg	✱	46	61 - 110
3,3'-Dichlorobenzidine	<0.054		1.55	0.824		mg/Kg	✱	53	35 - 128
2,4-Dichlorophenol	<0.092		1.55	1.15		mg/Kg	✱	74	58 - 120
Diethyl phthalate	<0.066		1.55	1.31		mg/Kg	✱	84	58 - 120
2,4-Dimethylphenol	<0.15		1.55	1.16		mg/Kg	✱	75	60 - 110
Dimethyl phthalate	<0.051		1.55	1.20		mg/Kg	✱	77	69 - 116
Di-n-butyl phthalate	<0.059		1.55	1.20		mg/Kg	✱	77	65 - 120
4,6-Dinitro-2-methylphenol	<0.31		3.11	1.53		mg/Kg	✱	49	10 - 110
2,4-Dinitrophenol	<0.68		3.11	1.14		mg/Kg	✱	37	10 - 100
2,4-Dinitrotoluene	<0.062		1.55	1.27		mg/Kg	✱	82	69 - 124
2,6-Dinitrotoluene	<0.076		1.55	1.16		mg/Kg	✱	74	70 - 123
Di-n-octyl phthalate	<0.063		1.55	1.19		mg/Kg	✱	77	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: 500-192810-3 MS

Matrix: Solid

Analysis Batch: 579281

Client Sample ID: 3972-COV-6-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 579174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	<0.0072		1.55	1.11		mg/Kg	✱	72	62 - 120
Fluorene	<0.0055		1.55	1.19		mg/Kg	✱	76	62 - 120
Hexachlorobenzene	<0.0090		1.55	1.22		mg/Kg	✱	78	63 - 124
Hexachlorobutadiene	<0.061		1.55	0.924		mg/Kg	✱	59	56 - 120
Hexachlorocyclopentadiene	<0.22	F2	1.55	0.304	J	mg/Kg	✱	20	10 - 133
Hexachloroethane	<0.059	F1	1.55	0.739	F1	mg/Kg	✱	48	60 - 114
Indeno[1,2,3-cd]pyrene	<0.010		1.55	1.31		mg/Kg	✱	84	68 - 130
Isophorone	<0.044		1.55	1.13		mg/Kg	✱	73	55 - 110
2-Methylnaphthalene	<0.0071	F1	1.55	1.02	F1	mg/Kg	✱	65	69 - 112
2-Methylphenol	<0.062		1.55	1.09		mg/Kg	✱	70	60 - 120
3 & 4 Methylphenol	<0.065		1.55	1.16		mg/Kg	✱	75	57 - 120
Naphthalene	<0.0060	F1	1.55	0.920	F1	mg/Kg	✱	59	63 - 110
2-Nitroaniline	<0.052		1.55	1.50		mg/Kg	✱	97	57 - 124
3-Nitroaniline	<0.12		1.55	0.947		mg/Kg	✱	61	40 - 122
4-Nitroaniline	<0.16		1.55	1.02		mg/Kg	✱	66	60 - 160
Nitrobenzene	<0.0097		1.55	1.05		mg/Kg	✱	68	60 - 116
2-Nitrophenol	<0.092		1.55	0.975		mg/Kg	✱	63	60 - 120
4-Nitrophenol	<0.37		3.11	3.36		mg/Kg	✱	108	30 - 122
N-Nitrosodi-n-propylamine	<0.048		1.55	1.17		mg/Kg	✱	75	56 - 118
N-Nitrosodiphenylamine	<0.046		1.55	1.18		mg/Kg	✱	76	65 - 112
2,2'-oxybis[1-chloropropane]	<0.045		1.55	1.18		mg/Kg	✱	76	40 - 124
Pentachlorophenol	<0.62		3.11	1.99		mg/Kg	✱	64	13 - 112
Phenanthrene	<0.0054		1.55	1.17		mg/Kg	✱	75	62 - 120
Phenol	<0.086		1.55	1.10		mg/Kg	✱	71	56 - 122
Pyrene	<0.0077		1.55	1.02		mg/Kg	✱	66	61 - 128
1,2,4-Trichlorobenzene	<0.042	F1	1.55	0.899	F1	mg/Kg	✱	58	66 - 117
2,4,5-Trichlorophenol	<0.089		1.55	1.30		mg/Kg	✱	83	50 - 120
2,4,6-Trichlorophenol	<0.13		1.55	1.18		mg/Kg	✱	76	57 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	74		43 - 145
2-Fluorophenol	68		31 - 166
Nitrobenzene-d5	70		37 - 147
Phenol-d5	72		30 - 153
Terphenyl-d14	74		42 - 157
2,4,6-Tribromophenol	78		31 - 143

Lab Sample ID: 500-192810-3 MSD

Matrix: Solid

Analysis Batch: 579281

Client Sample ID: 3972-COV-6-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 579174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<0.0070		1.55	1.14		mg/Kg	✱	74	65 - 124	2	30
Acenaphthylene	<0.0051		1.55	1.12		mg/Kg	✱	72	68 - 120	2	30
Anthracene	<0.0065		1.55	1.23		mg/Kg	✱	79	70 - 114	3	30
Benzo[a]anthracene	<0.0052		1.55	1.15		mg/Kg	✱	74	67 - 122	6	30
Benzo[a]pyrene	<0.0075		1.55	1.26		mg/Kg	✱	81	65 - 133	1	30
Benzo[b]fluoranthene	<0.0084		1.55	1.27		mg/Kg	✱	82	69 - 129	0	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: 500-192810-3 MSD

Client Sample ID: 3972-COV-6-B02 (0-7)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 579281

Prep Batch: 579174

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result			Result	Qualifier				Limits		Limit
Benzo[g,h,i]perylene	<0.013		1.55	1.26		mg/Kg	☼	81	72 - 131	6	30
Benzo[k]fluoranthene	<0.011		1.55	1.32		mg/Kg	☼	85	68 - 127	5	30
Bis(2-chloroethoxy)methane	<0.040		1.55	1.06		mg/Kg	☼	68	60 - 112	2	30
Bis(2-chloroethyl)ether	<0.058	F2	1.55	1.35	F2	mg/Kg	☼	87	55 - 111	44	30
Bis(2-ethylhexyl) phthalate	<0.071		1.55	1.25		mg/Kg	☼	81	72 - 131	5	30
4-Bromophenyl phenyl ether	<0.051		1.55	1.27		mg/Kg	☼	82	68 - 118	2	30
Butyl benzyl phthalate	<0.074		1.55	1.17		mg/Kg	☼	75	71 - 129	4	30
Carbazole	<0.097		1.55	1.32		mg/Kg	☼	85	65 - 142	11	30
4-Chloroaniline	<0.18		1.55	1.05		mg/Kg	☼	68	30 - 150	1	30
4-Chloro-3-methylphenol	<0.13		1.55	1.32		mg/Kg	☼	85	65 - 122	1	30
2-Chloronaphthalene	<0.043		1.55	1.12		mg/Kg	☼	72	69 - 114	4	30
2-Chlorophenol	<0.066		1.55	1.03		mg/Kg	☼	67	64 - 110	2	30
4-Chlorophenyl phenyl ether	<0.045		1.55	1.26		mg/Kg	☼	81	62 - 119	4	30
Chrysene	<0.011		1.55	1.18		mg/Kg	☼	76	63 - 120	2	30
Dibenz(a,h)anthracene	<0.0075		1.55	1.36		mg/Kg	☼	87	64 - 131	3	30
Dibenzofuran	<0.046		1.55	1.24		mg/Kg	☼	80	66 - 115	5	30
1,2-Dichlorobenzene	<0.046	F1	1.55	0.756	F1	mg/Kg	☼	49	62 - 110	3	30
1,3-Dichlorobenzene	<0.044	F1	1.55	0.659	F1	mg/Kg	☼	42	60 - 110	3	30
1,4-Dichlorobenzene	<0.050	F1	1.55	0.673	F1	mg/Kg	☼	43	61 - 110	5	30
3,3'-Dichlorobenzidine	<0.054		1.55	0.715		mg/Kg	☼	46	35 - 128	14	30
2,4-Dichlorophenol	<0.092		1.55	1.18		mg/Kg	☼	76	58 - 120	3	30
Diethyl phthalate	<0.066		1.55	1.32		mg/Kg	☼	85	58 - 120	1	30
2,4-Dimethylphenol	<0.15		1.55	1.20		mg/Kg	☼	77	60 - 110	3	30
Dimethyl phthalate	<0.051		1.55	1.23		mg/Kg	☼	79	69 - 116	3	30
Di-n-butyl phthalate	<0.059		1.55	1.21		mg/Kg	☼	78	65 - 120	1	30
4,6-Dinitro-2-methylphenol	<0.31		3.10	1.54		mg/Kg	☼	50	10 - 110	1	30
2,4-Dinitrophenol	<0.68		3.10	1.10		mg/Kg	☼	35	10 - 100	4	30
2,4-Dinitrotoluene	<0.062		1.55	1.25		mg/Kg	☼	81	69 - 124	1	30
2,6-Dinitrotoluene	<0.076		1.55	1.20		mg/Kg	☼	78	70 - 123	4	30
Di-n-octyl phthalate	<0.063		1.55	1.20		mg/Kg	☼	77	68 - 134	0	30
Fluoranthene	<0.0072		1.55	1.11		mg/Kg	☼	72	62 - 120	0	30
Fluorene	<0.0055		1.55	1.21		mg/Kg	☼	78	62 - 120	2	30
Hexachlorobenzene	<0.0090		1.55	1.27		mg/Kg	☼	82	63 - 124	4	30
Hexachlorobutadiene	<0.061		1.55	0.913		mg/Kg	☼	59	56 - 120	1	30
Hexachlorocyclopentadiene	<0.22	F2	1.55	0.223	J F2	mg/Kg	☼	14	10 - 133	31	30
Hexachloroethane	<0.059	F1	1.55	0.727	F1	mg/Kg	☼	47	60 - 114	2	30
Indeno[1,2,3-cd]pyrene	<0.010		1.55	1.32		mg/Kg	☼	85	68 - 130	1	30
Isophorone	<0.044		1.55	1.14		mg/Kg	☼	74	55 - 110	1	30
2-Methylnaphthalene	<0.0071	F1	1.55	1.04	F1	mg/Kg	☼	67	69 - 112	2	30
2-Methylphenol	<0.062		1.55	1.16		mg/Kg	☼	75	60 - 120	6	30
3 & 4 Methylphenol	<0.065		1.55	1.17		mg/Kg	☼	75	57 - 120	0	30
Naphthalene	<0.0060	F1	1.55	0.944	F1	mg/Kg	☼	61	63 - 110	3	30
2-Nitroaniline	<0.052		1.55	1.53		mg/Kg	☼	98	57 - 124	2	30
3-Nitroaniline	<0.12		1.55	0.954		mg/Kg	☼	62	40 - 122	1	30
4-Nitroaniline	<0.16		1.55	0.995		mg/Kg	☼	64	60 - 160	2	30
Nitrobenzene	<0.0097		1.55	1.08		mg/Kg	☼	69	60 - 116	2	30
2-Nitrophenol	<0.092		1.55	1.02		mg/Kg	☼	66	60 - 120	4	30
4-Nitrophenol	<0.37		3.10	3.48		mg/Kg	☼	112	30 - 122	3	30
N-Nitrosodi-n-propylamine	<0.048		1.55	1.19		mg/Kg	☼	77	56 - 118	2	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: 500-192810-3 MSD

Client Sample ID: 3972-COV-6-B02 (0-7)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 579281

Prep Batch: 579174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiphenylamine	<0.046		1.55	1.22		mg/Kg	☼	78	65 - 112	3	30
2,2'-oxybis[1-chloropropane]	<0.045		1.55	1.20		mg/Kg	☼	77	40 - 124	2	30
Pentachlorophenol	<0.62		3.10	2.22		mg/Kg	☼	72	13 - 112	11	30
Phenanthrene	<0.0054		1.55	1.24		mg/Kg	☼	80	62 - 120	6	30
Phenol	<0.086		1.55	1.16		mg/Kg	☼	75	56 - 122	5	30
Pyrene	<0.0077		1.55	1.13		mg/Kg	☼	73	61 - 128	10	30
1,2,4-Trichlorobenzene	<0.042	F1	1.55	0.917	F1	mg/Kg	☼	59	66 - 117	2	30
2,4,5-Trichlorophenol	<0.089		1.55	1.35		mg/Kg	☼	87	50 - 120	4	30
2,4,6-Trichlorophenol	<0.13		1.55	1.25		mg/Kg	☼	81	57 - 120	6	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	72		43 - 145
2-Fluorophenol	67		31 - 166
Nitrobenzene-d5	68		37 - 147
Phenol-d5	69		30 - 153
Terphenyl-d14	77		42 - 157
2,4,6-Tribromophenol	78		31 - 143

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-579185/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 579387

Prep Batch: 579185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0915		mg/L		91	80 - 120
Manganese	0.500	0.460		mg/L		92	80 - 120

Lab Sample ID: LB 500-579025/1-B

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: SPLP East

Analysis Batch: 579387

Prep Batch: 579185

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:37	12/31/20 23:42	1
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:37	12/31/20 23:42	1

Lab Sample ID: 500-192810-1 MS

Client Sample ID: 3972-COV-6-B01 (0-6)

Matrix: Solid

Prep Type: SPLP East

Analysis Batch: 579387

Prep Batch: 579185

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	<0.0075		0.100	0.0979		mg/L		98	75 - 125
Manganese	0.019	J	0.500	0.493		mg/L		95	75 - 125

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Method: 6010B - SPLP Metals (Continued)

Lab Sample ID: 500-192810-1 DU
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: 3972-COV-6-B01 (0-6)
Prep Type: SPLP East
Prep Batch: 579185

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.019	J	0.0188	J	mg/L		3	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578769/1-A
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578769

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Barium	<0.11		1.0	0.11	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Copper	<0.28		1.0	0.28	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Iron	<10		20	10	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Lead	<0.23		0.50	0.23	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Magnesium	5.58	J	10	5.0	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Calcium	10.6	J	20	3.4	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Manganese	0.201	J	1.0	0.15	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Silver	<0.13		0.50	0.13	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Zinc	1.15	J	2.0	0.88	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Potassium	<18		50	18	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Sodium	<15		100	15	mg/Kg		12/28/20 18:57	12/31/20 01:28	1

Lab Sample ID: LCS 500-578769/2-A
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578769

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	50.0	44.1		mg/Kg		88	80 - 120
Arsenic	10.0	9.30		mg/Kg		93	80 - 120
Barium	200	195		mg/Kg		98	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Cadmium	5.00	4.58		mg/Kg		92	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	25.0	24.1		mg/Kg		96	80 - 120
Iron	100	98.4		mg/Kg		98	80 - 120
Lead	10.0	9.38		mg/Kg		94	80 - 120
Magnesium	1000	950		mg/Kg		95	80 - 120
Calcium	1000	980		mg/Kg		98	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: LCS 500-578769/2-A
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Selenium	10.0	8.13		mg/Kg		81	80 - 120
Silver	5.00	4.52		mg/Kg		90	80 - 120
Thallium	10.0	9.48		mg/Kg		95	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	47.8		mg/Kg		96	80 - 120
Potassium	1000	924		mg/Kg		92	80 - 120
Sodium	1000	954		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-579183/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.489	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0470		mg/L		94	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.209		mg/L		104	80 - 120
Cobalt	0.500	0.525		mg/L		105	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	8.94		mg/L		89	80 - 120
Calcium	10.0	9.53		mg/L		95	80 - 120
Manganese	0.500	0.457		mg/L		91	80 - 120
Nickel	0.500	0.521		mg/L		104	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Silver	0.0500	0.0548		mg/L		110	80 - 120
Vanadium	0.500	0.530		mg/L		106	80 - 120
Zinc	0.500	0.574		mg/L		115	80 - 120
Potassium	10.0	10.9		mg/L		109	80 - 120

Lab Sample ID: LCS 500-579186/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.500	0.471		mg/L		94	80 - 120

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Barium	<0.050		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 22:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 22:03	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

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

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Iron	<0.20		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 22:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 22:03	1
Magnesium	<0.50		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1
Calcium	<0.50		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Potassium	<0.50		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1

Lab Sample ID: LB 500-579026/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579186

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0145	J	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:23	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579183/2-A
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.477		mg/L		95	80 - 120
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:03	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579156/12-A
Matrix: Solid
Analysis Batch: 579317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:40	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-579156/14-A
Matrix: Solid
Analysis Batch: 579317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579156
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00203		mg/L		101	80 - 120

Lab Sample ID: LB 500-579022/2-B
Matrix: Solid
Analysis Batch: 579317

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:42	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578677/12-A
Matrix: Solid
Analysis Batch: 578879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/28/20 13:30	12/29/20 08:31	1

Lab Sample ID: LCS 500-578677/13-A
Matrix: Solid
Analysis Batch: 578879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578677
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.173		mg/Kg		104	80 - 120

Lab Sample ID: 500-192810-3 MS
Matrix: Solid
Analysis Batch: 578879

Client Sample ID: 3972-COV-6-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 578677
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.023		0.0887	0.118		mg/Kg	☼	108	75 - 125

Lab Sample ID: 500-192810-3 MSD
Matrix: Solid
Analysis Batch: 578879

Client Sample ID: 3972-COV-6-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 578677
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	0.023		0.0886	0.119		mg/Kg	☼	108	75 - 125	0	20

Lab Sample ID: 500-192810-3 DU
Matrix: Solid
Analysis Batch: 578879

Client Sample ID: 3972-COV-6-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 578677
%Rec.

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.023		0.0217		mg/Kg	☼	4	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578662/1-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/28/20 10:55	12/28/20 12:39	1

Lab Sample ID: HLCS 500-578662/2-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.3		mg/Kg		102	90 - 110

Lab Sample ID: LCS 500-578662/3-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.65		mg/Kg		110	85 - 115

Lab Sample ID: LLCS 500-578662/4-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.40		mg/Kg		117	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

GC/MS VOA

Prep Batch: 578399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	5035	
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	5035	
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	5035	
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	5035	
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	5035	

Analysis Batch: 578587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	8260B	578399
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	8260B	578399
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	8260B	578399
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	8260B	578399
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	8260B	578399
MB 500-578587/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578587/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578587/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 579174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	3541	
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	3541	
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	3541	
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	3541	
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	3541	
MB 500-579174/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-579174/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-192810-3 MS	3972-COV-6-B02 (0-7)	Total/NA	Solid	3541	
500-192810-3 MSD	3972-COV-6-B02 (0-7)	Total/NA	Solid	3541	

Analysis Batch: 579272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	8270D	579174
MB 500-579174/1-A	Method Blank	Total/NA	Solid	8270D	579174
LCS 500-579174/2-A	Lab Control Sample	Total/NA	Solid	8270D	579174

Analysis Batch: 579281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	8270D	579174
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	8270D	579174
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	8270D	579174
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	8270D	579174
500-192810-3 MS	3972-COV-6-B02 (0-7)	Total/NA	Solid	8270D	579174
500-192810-3 MSD	3972-COV-6-B02 (0-7)	Total/NA	Solid	8270D	579174

Metals

Prep Batch: 578677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	7471B	
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	7471B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Metals (Continued)

Prep Batch: 578677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	7471B	
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	7471B	
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	7471B	
MB 500-578677/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578677/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-192810-3 MS	3972-COV-6-B02 (0-7)	Total/NA	Solid	7471B	
500-192810-3 MSD	3972-COV-6-B02 (0-7)	Total/NA	Solid	7471B	
500-192810-3 DU	3972-COV-6-B02 (0-7)	Total/NA	Solid	7471B	

Prep Batch: 578769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	3050B	
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	3050B	
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	3050B	
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	3050B	
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	3050B	
MB 500-578769/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578769/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 578879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	7471B	578677
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	7471B	578677
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	7471B	578677
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	7471B	578677
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	7471B	578677
MB 500-578677/12-A	Method Blank	Total/NA	Solid	7471B	578677
LCS 500-578677/13-A	Lab Control Sample	Total/NA	Solid	7471B	578677
500-192810-3 MS	3972-COV-6-B02 (0-7)	Total/NA	Solid	7471B	578677
500-192810-3 MSD	3972-COV-6-B02 (0-7)	Total/NA	Solid	7471B	578677
500-192810-3 DU	3972-COV-6-B02 (0-7)	Total/NA	Solid	7471B	578677

Leach Batch: 579022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	TCLP	Solid	1311	
500-192810-2	3972-COV-6-B01 (0-6) Dup	TCLP	Solid	1311	
500-192810-3	3972-COV-6-B02 (0-7)	TCLP	Solid	1311	
500-192810-4	3972-COV-6-B02 (7-13)	TCLP	Solid	1311	
500-192810-5	3972-COV-6-B03 (0-6)	TCLP	Solid	1311	
LB 500-579022/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579022/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 579025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	SPLP East	Solid	1312	
LB 500-579025/1-B	Method Blank	SPLP East	Solid	1312	
500-192810-1 MS	3972-COV-6-B01 (0-6)	SPLP East	Solid	1312	
500-192810-1 DU	3972-COV-6-B01 (0-6)	SPLP East	Solid	1312	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Metals

Leach Batch: 579026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-2	3972-COV-6-B01 (0-6) Dup	SPLP East	Solid	1312	
500-192810-3	3972-COV-6-B02 (0-7)	SPLP East	Solid	1312	
500-192810-4	3972-COV-6-B02 (7-13)	SPLP East	Solid	1312	
500-192810-5	3972-COV-6-B03 (0-6)	SPLP East	Solid	1312	
LB 500-579026/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 579156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	TCLP	Solid	7470A	579022
500-192810-2	3972-COV-6-B01 (0-6) Dup	TCLP	Solid	7470A	579022
500-192810-3	3972-COV-6-B02 (0-7)	TCLP	Solid	7470A	579022
500-192810-4	3972-COV-6-B02 (7-13)	TCLP	Solid	7470A	579022
500-192810-5	3972-COV-6-B03 (0-6)	TCLP	Solid	7470A	579022
LB 500-579022/2-B	Method Blank	TCLP	Solid	7470A	579022
MB 500-579156/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579156/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	TCLP	Solid	3010A	579022
500-192810-2	3972-COV-6-B01 (0-6) Dup	TCLP	Solid	3010A	579022
500-192810-3	3972-COV-6-B02 (0-7)	TCLP	Solid	3010A	579022
500-192810-4	3972-COV-6-B02 (7-13)	TCLP	Solid	3010A	579022
500-192810-5	3972-COV-6-B03 (0-6)	TCLP	Solid	3010A	579022
LB 500-579022/1-B	Method Blank	TCLP	Solid	3010A	579022
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 579185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	SPLP East	Solid	3010A	579025
LB 500-579025/1-B	Method Blank	SPLP East	Solid	3010A	579025
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-192810-1 MS	3972-COV-6-B01 (0-6)	SPLP East	Solid	3010A	579025
500-192810-1 DU	3972-COV-6-B01 (0-6)	SPLP East	Solid	3010A	579025

Prep Batch: 579186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-2	3972-COV-6-B01 (0-6) Dup	SPLP East	Solid	3010A	579026
500-192810-3	3972-COV-6-B02 (0-7)	SPLP East	Solid	3010A	579026
500-192810-4	3972-COV-6-B02 (7-13)	SPLP East	Solid	3010A	579026
500-192810-5	3972-COV-6-B03 (0-6)	SPLP East	Solid	3010A	579026
LB 500-579026/1-B	Method Blank	SPLP East	Solid	3010A	579026
LCS 500-579186/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	6010B	578769
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	6010B	578769
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	6010B	578769
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	6010B	578769
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	6010B	578769

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Metals (Continued)

Analysis Batch: 579233 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-578769/1-A	Method Blank	Total/NA	Solid	6010B	578769
LCS 500-578769/2-A	Lab Control Sample	Total/NA	Solid	6010B	578769

Analysis Batch: 579317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	TCLP	Solid	7470A	579156
500-192810-2	3972-COV-6-B01 (0-6) Dup	TCLP	Solid	7470A	579156
500-192810-3	3972-COV-6-B02 (0-7)	TCLP	Solid	7470A	579156
500-192810-4	3972-COV-6-B02 (7-13)	TCLP	Solid	7470A	579156
500-192810-5	3972-COV-6-B03 (0-6)	TCLP	Solid	7470A	579156
LB 500-579022/2-B	Method Blank	TCLP	Solid	7470A	579156
MB 500-579156/12-A	Method Blank	Total/NA	Solid	7470A	579156
LCS 500-579156/14-A	Lab Control Sample	Total/NA	Solid	7470A	579156

Analysis Batch: 579325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	TCLP	Solid	6020A	579183
500-192810-2	3972-COV-6-B01 (0-6) Dup	TCLP	Solid	6020A	579183
500-192810-3	3972-COV-6-B02 (0-7)	TCLP	Solid	6020A	579183
500-192810-4	3972-COV-6-B02 (7-13)	TCLP	Solid	6020A	579183
500-192810-5	3972-COV-6-B03 (0-6)	TCLP	Solid	6020A	579183
LB 500-579022/1-B	Method Blank	TCLP	Solid	6020A	579183
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	6020A	579183

Analysis Batch: 579386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	6010B	578769
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	6010B	578769
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	6010B	578769

Analysis Batch: 579387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	SPLP East	Solid	6010B	579185
500-192810-1	3972-COV-6-B01 (0-6)	TCLP	Solid	6010B	579183
500-192810-2	3972-COV-6-B01 (0-6) Dup	SPLP East	Solid	6010B	579186
500-192810-2	3972-COV-6-B01 (0-6) Dup	TCLP	Solid	6010B	579183
500-192810-3	3972-COV-6-B02 (0-7)	SPLP East	Solid	6010B	579186
500-192810-3	3972-COV-6-B02 (0-7)	TCLP	Solid	6010B	579183
500-192810-4	3972-COV-6-B02 (7-13)	SPLP East	Solid	6010B	579186
500-192810-4	3972-COV-6-B02 (7-13)	TCLP	Solid	6010B	579183
500-192810-5	3972-COV-6-B03 (0-6)	SPLP East	Solid	6010B	579186
500-192810-5	3972-COV-6-B03 (0-6)	TCLP	Solid	6010B	579183
LB 500-579022/1-B	Method Blank	TCLP	Solid	6010B	579183
LB 500-579025/1-B	Method Blank	SPLP East	Solid	6010B	579185
LB 500-579026/1-B	Method Blank	SPLP East	Solid	6010B	579186
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	6010B	579183
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	6010B	579185
LCS 500-579186/2-A	Lab Control Sample	Total/NA	Solid	6010B	579186
500-192810-1 MS	3972-COV-6-B01 (0-6)	SPLP East	Solid	6010B	579185
500-192810-1 DU	3972-COV-6-B01 (0-6)	SPLP East	Solid	6010B	579185

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

General Chemistry

Analysis Batch: 578275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	Moisture	
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	Moisture	
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	Moisture	
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	Moisture	
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	9045D	
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	9045D	
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	9045D	
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	9045D	
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	9010C	
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	9010C	
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	9010C	
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	9010C	
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	9010C	
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192810-1	3972-COV-6-B01 (0-6)	Total/NA	Solid	9012B	578662
500-192810-2	3972-COV-6-B01 (0-6) Dup	Total/NA	Solid	9012B	578662
500-192810-3	3972-COV-6-B02 (0-7)	Total/NA	Solid	9012B	578662
500-192810-4	3972-COV-6-B02 (7-13)	Total/NA	Solid	9012B	578662
500-192810-5	3972-COV-6-B03 (0-6)	Total/NA	Solid	9012B	578662
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9012B	578662
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9012B	578662

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6)

Lab Sample ID: 500-192810-1

Date Collected: 12/18/20 09:45

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579025	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579185	12/30/20 17:37	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 01:03	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 22:58	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:11	FXG	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:55	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:25	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Client Sample ID: 3972-COV-6-B01 (0-6)

Lab Sample ID: 500-192810-1

Date Collected: 12/18/20 09:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 16:41	EMA	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579281	12/31/20 12:37	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:20	EEN	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579386	12/31/20 18:26	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 08:45	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 12:52	PSP	TAL CHI

Client Sample ID: 3972-COV-6-B01 (0-6) Dup

Lab Sample ID: 500-192810-2

Date Collected: 12/18/20 09:50

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 01:30	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 23:01	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B01 (0-6) Dup

Lab Sample ID: 500-192810-2

Date Collected: 12/18/20 09:50

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:13	FXG	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:57	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:28	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Client Sample ID: 3972-COV-6-B01 (0-6) Dup

Lab Sample ID: 500-192810-2

Date Collected: 12/18/20 09:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 17:06	EMA	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579281	12/31/20 13:02	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:23	EEN	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579386	12/31/20 18:29	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 08:48	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 12:54	PSP	TAL CHI

Client Sample ID: 3972-COV-6-B02 (0-7)

Lab Sample ID: 500-192810-3

Date Collected: 12/18/20 09:15

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 01:33	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 23:05	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:15	FXG	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:30	LWN	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (0-7)

Lab Sample ID: 500-192810-3

Date Collected: 12/18/20 09:15

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Client Sample ID: 3972-COV-6-B02 (0-7)

Lab Sample ID: 500-192810-3

Date Collected: 12/18/20 09:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 17:31	EMA	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579281	12/31/20 11:48	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:27	EEN	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579386	12/31/20 18:32	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 08:55	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 12:59	PSP	TAL CHI

Client Sample ID: 3972-COV-6-B02 (7-13)

Lab Sample ID: 500-192810-4

Date Collected: 12/18/20 09:20

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 01:36	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 23:08	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:17	FXG	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 11:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:33	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B02 (7-13)

Lab Sample ID: 500-192810-4

Date Collected: 12/18/20 09:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 62.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 17:56	EMA	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579281	12/31/20 12:13	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:30	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 09:03	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:01	PSP	TAL CHI

Client Sample ID: 3972-COV-6-B03 (0-6)

Lab Sample ID: 500-192810-5

Date Collected: 12/18/20 08:40

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 01:40	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 23:11	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:19	FXG	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 11:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:35	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Client Sample ID: 3972-COV-6-B03 (0-6)

Lab Sample ID: 500-192810-5

Date Collected: 12/18/20 08:40

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 18:21	EMA	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579272	12/31/20 10:45	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:40	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 09:05	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Client Sample ID: 3972-COV-6-B03 (0-6)

Lab Sample ID: 500-192810-5

Date Collected: 12/18/20 08:40

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:02	PSP	TAL CHI

Laboratory References:

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

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192810-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192810-1	3972-COV-6-B01 (0-6)	Solid	12/18/20 09:45	12/18/20 17:50	
500-192810-2	3972-COV-6-B01 (0-6) Dup	Solid	12/18/20 09:50	12/18/20 17:50	
500-192810-3	3972-COV-6-B02 (0-7)	Solid	12/18/20 09:15	12/18/20 17:50	
500-192810-4	3972-COV-6-B02 (7-13)	Solid	12/18/20 09:20	12/18/20 17:50	
500-192810-5	3972-COV-6-B03 (0-6)	Solid	12/18/20 08:40	12/18/20 17:50	

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: <i>Rich O'Brien</i>		Site Contact:		Date: <i>12/18/2022</i>		COC No: _____	
Company Name: <i>Terracon</i>		Tel/Email: <i>Matt Weiss@Terracon.com</i>		Lab Contact:		Carrier:		1 of 1 COCs	
Address: <i>92 Exchange Blvd</i>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>DOCS</i> <i>SPOCS</i> <i>DATE 12/23 Inorganics / PM</i> <i>12/23 Inorganics</i> <i>SPL 23 Inorganics</i>		 500-192810 COC		Sampler: <i>P. G. P.</i>	
City/State/Zip: <i>Glendale Heights, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS						For Lab Use Only:	
Phone: <i>630-945-0160</i>		TAT if different from Below _____						Walk-in Client: _____	
Fax: _____		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling: _____	
Project Name: <i>11207011W</i>								Job / SDG No.:	
Site: <i>11207011W</i>						<i>500-19280951#</i> <i>12/19/22</i> 192810		Sample Specific Notes:	
P O # _____									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	
1	<i>3972-COV-G-Bo1 (0-6)</i>	<i>12/18/22</i>	<i>0945</i>	<i>G</i>	<i>Soil</i>	<i>6</i>	<i>Y</i>	<i>N</i>	<i>X X X X X X</i>
2	<i>3972-COV-G-Bo1 Dup (0-6)</i>	<i>12/18/22</i>	<i>0950</i>	<i>G</i>	<i>Soil</i>	<i>6</i>	<i>Y</i>	<i>N</i>	<i>X X X X X X</i>
3	<i>3972-COV-G-Bo2 (0-7)</i>	<i>12/18/22</i>	<i>0915</i>	<i>G</i>	<i>Soil</i>	<i>6</i>	<i>Y</i>	<i>N</i>	<i>X X X X X X</i>
4	<i>3972-COV-G-Bo2 (7-13)</i>	<i>12/18/22</i>	<i>0920</i>	<i>G</i>	<i>Soil</i>	<i>6</i>	<i>Y</i>	<i>N</i>	<i>X X X X X X</i>
5	<i>3972-COV-G-Bo3 (0-6)</i>	<i>12/18/22</i>	<i>0840</i>	<i>G</i>	<i>Soil</i>	<i>6</i>	<i>Y</i>	<i>N</i>	<i>X X X X X X</i>
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 checked="" 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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <i>* No Aluminum</i> <i>* Hold SPL23 Inorganics Per Terracon Instructions</i>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: <i>2.9</i> Corr'd: <i>0.6</i>		Therm ID No.:			
Relinquished by: <i>Tom West</i>		Company: <i>Terracon</i>		Date/Time: <i>12/18/2022 1600</i>		Received by: <i>P. Nam</i>		Company: <i>ETA</i> Date/Time: <i>12/18/20 1600</i>	
Relinquished by: <i>P. Nam</i>		Company: <i>ETA</i>		Date/Time: <i>12/18/20 1700</i>		Received by:		Company: Date/Time:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>Stephanie Hemminger</i>		Company: <i>ETA-GHI</i> Date/Time: <i>12/18/20 1750</i>	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192810-1

Login Number: 192810

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Barrington Road (Northbound) IDOT STA 63+80 to 66+40 (ISGS Site 3972-COV-7)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Schaumburg

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

Latitude: 42.00628 Longitude: -88.14458

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 201

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 3972-COV-7. See Exhibit 2 and Table 9 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192716-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-7)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-7-B01 (0-2)
		Chicago	MSAs		Sample Depth (feet)	(0-2)
					Date Collected	12/17/2020
Volatile Organic Analytical Parameters						
Semivolatile Organic Analytical Parameters						
Anthracene	mg/kg	0.25	0.4	12000		0.0078
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.050
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.069
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.10
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.041
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.028
Chrysene	mg/kg	1.2	2.7	88		0.061
Fluoranthene	mg/kg	2.7	4.1	3100		0.11
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.037
Phenanthrene	mg/kg	1.3	2.5	210		0.047
Pyrene	mg/kg	1.9	3.0	2300		0.093
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		6.8
Barium	mg/kg	---	110	1500		91
Cadmium	mg/kg	---	0.6	5.2		0.16
Chromium, total	mg/kg	---	16.2	21		20
Lead	mg/kg	---	36	107		99
Mercury	mg/kg	---	0.06	0.89		0.033
Selenium	mg/kg	---	0.48	1.3		0.82
Silver	mg/kg	---	0.55	4.4		0.36
Antimony	mg/kg	---	4.0	5		<0.24
Beryllium	mg/kg	---	0.59	22		0.79
Calcium	mg/kg	---	9,300	---		21000
Cobalt	mg/kg	---	8.9	20		11
Copper	mg/kg	---	19.6	2900		23
Cyanide	mg/kg	---	0.51	---		0.25
Iron	mg/kg	---	15,900	15000		19000
Magnesium	mg/kg	---	4,820	325000		14000
Manganese	mg/kg	---	636	630		330
Nickel	mg/kg	---	18	100		32
Potassium	mg/kg	---	1,268	---		2400
Sodium	mg/kg	---	130	---		1300
Thallium	mg/kg	---	0.32	2.6		0.43
Vanadium	mg/kg	---	25.2	550		29
Zinc	mg/kg	---	95	5100		83
pH			6.25	9		8.8

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-7)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-7-B01 (0-2)
		Chicago	MSAs		Sample Depth (feet)	(0-2)
					Date Collected	12/17/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.42
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		280
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		0.074
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		110
Manganese,TCLP	mg/L	---	---	---		0.12
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		1.6
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.089

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192716-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/30/2020 2:35:13 PM

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

LINKS

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Job ID: 500-192716-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192716-1

Receipt

The samples were received on 12/17/2020 5:30 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.2° C and 1.1° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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



Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Client Sample ID: 3972-COV-7-B01 (0-2)

Lab Sample ID: 500-192716-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.0078	J	0.042	0.0071	mg/Kg	1	✳	8270D	Total/NA	
Benzo[a]anthracene	0.050		0.042	0.0057	mg/Kg	1	✳	8270D	Total/NA	
Benzo[a]pyrene	0.069		0.042	0.0082	mg/Kg	1	✳	8270D	Total/NA	
Benzo[b]fluoranthene	0.10		0.042	0.0091	mg/Kg	1	✳	8270D	Total/NA	
Benzo[g,h,i]perylene	0.041	J	0.042	0.014	mg/Kg	1	✳	8270D	Total/NA	
Benzo[k]fluoranthene	0.028	J	0.042	0.012	mg/Kg	1	✳	8270D	Total/NA	
Chrysene	0.061		0.042	0.012	mg/Kg	1	✳	8270D	Total/NA	
Fluoranthene	0.11		0.042	0.0079	mg/Kg	1	✳	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.037	J	0.042	0.011	mg/Kg	1	✳	8270D	Total/NA	
Phenanthrene	0.047		0.042	0.0059	mg/Kg	1	✳	8270D	Total/NA	
Pyrene	0.093		0.042	0.0084	mg/Kg	1	✳	8270D	Total/NA	
Arsenic	6.8		0.62	0.21	mg/Kg	1	✳	6010B	Total/NA	
Barium	91		0.62	0.071	mg/Kg	1	✳	6010B	Total/NA	
Beryllium	0.79		0.25	0.058	mg/Kg	1	✳	6010B	Total/NA	
Cadmium	0.16		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA	
Chromium	20		0.62	0.31	mg/Kg	1	✳	6010B	Total/NA	
Cobalt	11		0.31	0.082	mg/Kg	1	✳	6010B	Total/NA	
Copper	23		0.62	0.17	mg/Kg	1	✳	6010B	Total/NA	
Iron	19000		12	6.5	mg/Kg	1	✳	6010B	Total/NA	
Lead	99		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA	
Magnesium	14000		6.2	3.1	mg/Kg	1	✳	6010B	Total/NA	
Calcium	21000		12	2.1	mg/Kg	1	✳	6010B	Total/NA	
Manganese	330		0.62	0.090	mg/Kg	1	✳	6010B	Total/NA	
Nickel	32		0.62	0.18	mg/Kg	1	✳	6010B	Total/NA	
Selenium	0.82		0.62	0.37	mg/Kg	1	✳	6010B	Total/NA	
Silver	0.36	B	0.31	0.080	mg/Kg	1	✳	6010B	Total/NA	
Thallium	0.43	J	0.62	0.31	mg/Kg	1	✳	6010B	Total/NA	
Vanadium	29		0.31	0.074	mg/Kg	1	✳	6010B	Total/NA	
Zinc	83		1.2	0.55	mg/Kg	1	✳	6010B	Total/NA	
Potassium	2400	B	31	11	mg/Kg	1	✳	6010B	Total/NA	
Sodium	1300		62	9.2	mg/Kg	1	✳	6010B	Total/NA	
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP	
Copper	0.074		0.025	0.010	mg/L	1		6010B	TCLP	
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.12		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.089	J	0.50	0.020	mg/L	1		6010B	TCLP	
Mercury	0.033		0.020	0.0068	mg/Kg	1	✳	7471B	Total/NA	
Cyanide, Total	0.25	J B	0.28	0.14	mg/Kg	1	✳	9012B	Total/NA	
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA	

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Client Sample ID: 3972-COV-7-B01 (0-2)

Lab Sample ID: 500-192716-1

Date Collected: 12/17/20 13:15

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0082		0.019	0.0082	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Bromoform	<0.00055		0.0019	0.00055	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Carbon disulfide	<0.00098		0.0047	0.00098	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Chloroethane	<0.0014		0.0047	0.0014	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
cis-1,3-Dichloropropene	<0.00057		0.0019	0.00057	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
1,1-Dichloroethene	<0.00065		0.0019	0.00065	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
1,2-Dichloropropene	<0.00049		0.0019	0.00049	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
1,3-Dichloropropene, Total	<0.00066		0.0019	0.00066	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Ethylbenzene	<0.00090		0.0019	0.00090	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Methylene Chloride	<0.0019		0.0047	0.0019	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Styrene	<0.00057		0.0019	0.00057	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
1,1,2,2-Tetrachloroethane	<0.00060		0.0019	0.00060	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Tetrachloroethene	<0.00064		0.0019	0.00064	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
trans-1,2-Dichloroethene	<0.00083		0.0019	0.00083	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
trans-1,3-Dichloropropene	<0.00066		0.0019	0.00066	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
1,1,1-Trichloroethane	<0.00063		0.0019	0.00063	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
1,1,2-Trichloroethane	<0.00081		0.0019	0.00081	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Vinyl chloride	<0.00083		0.0019	0.00083	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1
Xylenes, Total	<0.00060		0.0038	0.00060	mg/Kg	✳	12/18/20 17:43	12/23/20 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	12/18/20 17:43	12/23/20 17:31	1
Dibromofluoromethane	99		75 - 126	12/18/20 17:43	12/23/20 17:31	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	12/18/20 17:43	12/23/20 17:31	1
Toluene-d8 (Surr)	93		75 - 124	12/18/20 17:43	12/23/20 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.042	0.0076	mg/Kg	✳	12/23/20 08:17	12/24/20 16:37	1
Acenaphthylene	<0.0056		0.042	0.0056	mg/Kg	✳	12/23/20 08:17	12/24/20 16:37	1
Anthracene	0.0078	J	0.042	0.0071	mg/Kg	✳	12/23/20 08:17	12/24/20 16:37	1
Benzo[a]anthracene	0.050		0.042	0.0057	mg/Kg	✳	12/23/20 08:17	12/24/20 16:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Client Sample ID: 3972-COV-7-B01 (0-2)

Lab Sample ID: 500-192716-1

Date Collected: 12/17/20 13:15

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.069		0.042	0.0082	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Benzo[b]fluoranthene	0.10		0.042	0.0091	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Benzo[g,h,i]perylene	0.041	J	0.042	0.014	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Benzo[k]fluoranthene	0.028	J	0.042	0.012	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Bis(2-chloroethyl)ether	<0.064		0.21	0.064	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Bis(2-ethylhexyl) phthalate	<0.077		0.21	0.077	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
4-Bromophenyl phenyl ether	<0.056		0.21	0.056	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Butyl benzyl phthalate	<0.081		0.21	0.081	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Carbazole	<0.11		0.21	0.11	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
4-Chloroaniline	<0.20		0.85	0.20	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2-Chloronaphthalene	<0.047		0.21	0.047	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Chrysene	0.061		0.042	0.012	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Dibenz(a,h)anthracene	<0.0082		0.042	0.0082	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Dibenzofuran	<0.050		0.21	0.050	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
1,2-Dichlorobenzene	<0.051		0.21	0.051	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
1,3-Dichlorobenzene	<0.048		0.21	0.048	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Diethyl phthalate	<0.072		0.21	0.072	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Di-n-butyl phthalate	<0.065		0.21	0.065	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
4,6-Dinitro-2-methylphenol	<0.34		0.85	0.34	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2,4-Dinitrophenol	<0.75		0.85	0.75	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2,6-Dinitrotoluene	<0.083		0.21	0.083	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Di-n-octyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Fluoranthene	0.11		0.042	0.0079	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Fluorene	<0.0060		0.042	0.0060	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Hexachlorobenzene	<0.0098		0.085	0.0098	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Hexachlorobutadiene	<0.067		0.21	0.067	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Hexachlorocyclopentadiene	<0.24		0.85	0.24	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Indeno[1,2,3-cd]pyrene	0.037	J	0.042	0.011	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Isophorone	<0.048		0.21	0.048	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2-Methylnaphthalene	<0.0078		0.085	0.0078	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2-Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
3 & 4 Methylphenol	<0.071		0.21	0.071	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Naphthalene	<0.0065		0.042	0.0065	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2-Nitroaniline	<0.057		0.21	0.057	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Nitrobenzene	<0.011		0.042	0.011	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2-Nitrophenol	<0.10		0.42	0.10	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Client Sample ID: 3972-COV-7-B01 (0-2)

Lab Sample ID: 500-192716-1

Date Collected: 12/17/20 13:15

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
N-Nitrosodi-n-propylamine	<0.052		0.085	0.052	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Pentachlorophenol	<0.68		0.85	0.68	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Phenanthrene	0.047		0.042	0.0059	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Phenol	<0.094		0.21	0.094	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Pyrene	0.093		0.042	0.0084	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
1,2,4-Trichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2,4,5-Trichlorophenol	<0.097		0.42	0.097	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
2,4,6-Trichlorophenol	<0.15		0.42	0.15	mg/Kg	☼	12/23/20 08:17	12/24/20 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		43 - 145				12/23/20 08:17	12/24/20 16:37	1
2-Fluorophenol	95		31 - 166				12/23/20 08:17	12/24/20 16:37	1
Nitrobenzene-d5	99		37 - 147				12/23/20 08:17	12/24/20 16:37	1
Phenol-d5	96		30 - 153				12/23/20 08:17	12/24/20 16:37	1
Terphenyl-d14	90		42 - 157				12/23/20 08:17	12/24/20 16:37	1
2,4,6-Tribromophenol	93		31 - 143				12/23/20 08:17	12/24/20 16:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24		1.2	0.24	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Arsenic	6.8		0.62	0.21	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Barium	91		0.62	0.071	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Beryllium	0.79		0.25	0.058	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Cadmium	0.16		0.12	0.022	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Chromium	20		0.62	0.31	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Cobalt	11		0.31	0.082	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Copper	23		0.62	0.17	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Iron	19000		12	6.5	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Lead	99		0.31	0.14	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Magnesium	14000		6.2	3.1	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Calcium	21000		12	2.1	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Manganese	330		0.62	0.090	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Nickel	32		0.62	0.18	mg/Kg	☼	12/23/20 08:02	12/28/20 15:52	1
Selenium	0.82		0.62	0.37	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Silver	0.36 B		0.31	0.080	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Thallium	0.43 J		0.62	0.31	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Vanadium	29		0.31	0.074	mg/Kg	☼	12/23/20 08:02	12/28/20 15:52	1
Zinc	83		1.2	0.55	mg/Kg	☼	12/23/20 08:02	12/28/20 15:52	1
Potassium	2400 B		31	11	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1
Sodium	1300		62	9.2	mg/Kg	☼	12/23/20 08:02	12/24/20 20:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:45	1
Barium	0.42 J		0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:45	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Client Sample ID: 3972-COV-7-B01 (0-2)

Lab Sample ID: 500-192716-1

Date Collected: 12/17/20 13:15

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 22:45	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:45	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:45	1
Copper	0.074		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:45	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 22:45	1
Magnesium	110		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:45	1
Manganese	0.12		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:45	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:45	1
Potassium	1.6 J		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:45	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:45	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:45	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:45	1
Zinc	0.089 J		0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 14:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 14:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0068	mg/Kg	⊛	12/23/20 13:40	12/24/20 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.25 J B		0.28	0.14	mg/Kg	⊛	12/23/20 12:32	12/23/20 14:18	1
pH	8.8		0.2	0.2	SU			12/22/20 21:29	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192716-1	3972-COV-7-B01 (0-2)	105	99	92	93
LCS 500-578187/26	Lab Control Sample	96	89	80	97
LCSD 500-578187/5	Lab Control Sample Dup	93	87	76	97
MB 500-578187/7	Method Blank	100	95	85	95

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192716-1	3972-COV-7-B01 (0-2)	92	95	99	96	90	93
LCS 500-578231/2-A	Lab Control Sample	92	99	92	92	94	86
MB 500-578231/1-A	Method Blank	97	97	100	97	91	92

Surrogate Legend

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Lab Sample ID: MB 500-578187/7
Matrix: Solid
Analysis Batch: 578187

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/23/20 12:48	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/23/20 12:48	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/23/20 12:48	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/23/20 12:48	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/23/20 12:48	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/23/20 12:48	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/23/20 12:48	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/23/20 12:48	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/23/20 12:48	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/23/20 12:48	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/23/20 12:48	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/23/20 12:48	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/23/20 12:48	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/23/20 12:48	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/23/20 12:48	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/23/20 12:48	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/23/20 12:48	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/23/20 12:48	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/23/20 12:48	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/23/20 12:48	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/23/20 12:48	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/23/20 12:48	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/23/20 12:48	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/23/20 12:48	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/23/20 12:48	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/23/20 12:48	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/23/20 12:48	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/23/20 12:48	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/23/20 12:48	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/23/20 12:48	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/23/20 12:48	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/23/20 12:48	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/23/20 12:48	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/23/20 12:48	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		75 - 131		12/23/20 12:48	1
Dibromofluoromethane	95		75 - 126		12/23/20 12:48	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134		12/23/20 12:48	1
Toluene-d8 (Surr)	95		75 - 124		12/23/20 12:48	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Lab Sample ID: LCS 500-578187/26

Matrix: Solid

Analysis Batch: 578187

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	0.0287		mg/Kg		57	40 - 150
Benzene	0.0500	0.0512		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0454		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0437		mg/Kg		87	68 - 136
Bromomethane	0.0500	0.0381		mg/Kg		76	70 - 130
2-Butanone (MEK)	0.0500	0.0254		mg/Kg		51	47 - 138
Carbon disulfide	0.0500	0.0521		mg/Kg		104	70 - 129
Carbon tetrachloride	0.0500	0.0533		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0531		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0508		mg/Kg		102	75 - 125
Chloroform	0.0500	0.0473		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0539		mg/Kg		108	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0560		mg/Kg		112	70 - 125
1,2-Dichloroethane	0.0500	0.0437		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 120
1,2-Dichloropropane	0.0500	0.0538		mg/Kg		108	70 - 125
Ethylbenzene	0.0500	0.0547		mg/Kg		109	61 - 136
2-Hexanone	0.0500	0.0256		mg/Kg		51	48 - 146
Methylene Chloride	0.0500	0.0449		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0258		mg/Kg		52	50 - 148
Methyl tert-butyl ether	0.0500	0.0357		mg/Kg		71	50 - 140
Styrene	0.0500	0.0522		mg/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0420		mg/Kg		84	70 - 122
Tetrachloroethene	0.0500	0.0523		mg/Kg		105	70 - 124
Toluene	0.0500	0.0538		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0515		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0424		mg/Kg		85	70 - 125
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128
1,1,2-Trichloroethane	0.0500	0.0446		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0537		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0271		mg/Kg		54	40 - 153
Vinyl chloride	0.0500	0.0518		mg/Kg		104	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	89		75 - 126
1,2-Dichloroethane-d4 (Surr)	80		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Lab Sample ID: LCSD 500-578187/5
Matrix: Solid
Analysis Batch: 578187

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	0.0335		mg/Kg		67	40 - 150	15	30
Benzene	0.0500	0.0558		mg/Kg		112	70 - 125	9	30
Bromodichloromethane	0.0500	0.0503		mg/Kg		101	67 - 129	10	30
Bromoform	0.0500	0.0484		mg/Kg		97	68 - 136	10	30
Bromomethane	0.0500	0.0437		mg/Kg		87	70 - 130	14	30
2-Butanone (MEK)	0.0500	0.0264		mg/Kg		53	47 - 138	4	30
Carbon disulfide	0.0500	0.0589		mg/Kg		118	70 - 129	12	30
Carbon tetrachloride	0.0500	0.0592		mg/Kg		118	75 - 125	11	30
Chlorobenzene	0.0500	0.0581		mg/Kg		116	50 - 150	9	30
Chloroethane	0.0500	0.0560		mg/Kg		112	75 - 125	10	30
Chloroform	0.0500	0.0524		mg/Kg		105	57 - 135	10	30
Chloromethane	0.0500	0.0617		mg/Kg		123	70 - 125	14	30
cis-1,2-Dichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125	11	30
cis-1,3-Dichloropropene	0.0500	0.0491		mg/Kg		98	70 - 125	10	30
Dibromochloromethane	0.0500	0.0524		mg/Kg		105	69 - 125	7	30
1,1-Dichloroethane	0.0500	0.0610		mg/Kg		122	70 - 125	9	30
1,2-Dichloroethane	0.0500	0.0475		mg/Kg		95	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0571		mg/Kg		114	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0590		mg/Kg		118	70 - 125	9	30
Ethylbenzene	0.0500	0.0601		mg/Kg		120	61 - 136	9	30
2-Hexanone	0.0500	0.0305		mg/Kg		61	48 - 146	17	30
Methylene Chloride	0.0500	0.0501		mg/Kg		100	70 - 126	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0295		mg/Kg		59	50 - 148	13	30
Methyl tert-butyl ether	0.0500	0.0414		mg/Kg		83	50 - 140	15	30
Styrene	0.0500	0.0570		mg/Kg		114	70 - 125	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.0470		mg/Kg		94	70 - 122	11	30
Tetrachloroethene	0.0500	0.0566		mg/Kg		113	70 - 124	8	30
Toluene	0.0500	0.0588		mg/Kg		118	70 - 125	9	30
trans-1,2-Dichloroethene	0.0500	0.0568		mg/Kg		114	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125	8	30
1,1,1-Trichloroethane	0.0500	0.0552		mg/Kg		110	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125	11	30
Trichloroethene	0.0500	0.0589		mg/Kg		118	70 - 125	9	30
Vinyl acetate	0.0500	0.0265		mg/Kg		53	40 - 153	2	30
Vinyl chloride	0.0500	0.0584		mg/Kg		117	70 - 125	12	30
Xylenes, Total	0.100	0.113		mg/Kg		113	53 - 147	10	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Lab Sample ID: MB 500-578231/1-A

Matrix: Solid

Analysis Batch: 578463

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 578231

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/23/20 08:17	12/24/20 11:17	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Lab Sample ID: MB 500-578231/1-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/23/20 08:17	12/24/20 11:17	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/23/20 08:17	12/24/20 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145	12/23/20 08:17	12/24/20 11:17	1
2-Fluorophenol	97		31 - 166	12/23/20 08:17	12/24/20 11:17	1
Nitrobenzene-d5	100		37 - 147	12/23/20 08:17	12/24/20 11:17	1
Phenol-d5	97		30 - 153	12/23/20 08:17	12/24/20 11:17	1
Terphenyl-d14	91		42 - 157	12/23/20 08:17	12/24/20 11:17	1
2,4,6-Tribromophenol	92		31 - 143	12/23/20 08:17	12/24/20 11:17	1

Lab Sample ID: LCS 500-578231/2-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.19		mg/Kg		89	68 - 120
Anthracene	1.33	1.16		mg/Kg		87	70 - 114
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	65 - 133
Benzo[b]fluoranthene	1.33	1.40		mg/Kg		105	69 - 129
Benzo[g,h,i]perylene	1.33	1.39		mg/Kg		104	72 - 131
Benzo[k]fluoranthene	1.33	1.42		mg/Kg		107	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.19		mg/Kg		90	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		98	72 - 131
4-Bromophenyl phenyl ether	1.33	1.24		mg/Kg		93	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		97	71 - 129
Carbazole	1.33	1.29		mg/Kg		97	65 - 142
4-Chloroaniline	1.33	1.20		mg/Kg		90	30 - 150
4-Chloro-3-methylphenol	1.33	1.32		mg/Kg		99	65 - 122
2-Chloronaphthalene	1.33	1.22		mg/Kg		91	69 - 114
2-Chlorophenol	1.33	1.24		mg/Kg		93	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Lab Sample ID: LCS 500-578231/2-A

Matrix: Solid

Analysis Batch: 578463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.25		mg/Kg		94	62 - 119
Chrysene	1.33	1.23		mg/Kg		92	63 - 120
Dibenz(a,h)anthracene	1.33	1.38		mg/Kg		104	64 - 131
Dibenzofuran	1.33	1.21		mg/Kg		91	66 - 115
1,2-Dichlorobenzene	1.33	1.18		mg/Kg		89	62 - 110
1,3-Dichlorobenzene	1.33	1.13		mg/Kg		85	65 - 124
1,4-Dichlorobenzene	1.33	1.14		mg/Kg		86	61 - 110
3,3'-Dichlorobenzidine	1.33	1.07		mg/Kg		80	35 - 128
2,4-Dichlorophenol	1.33	1.22		mg/Kg		92	58 - 120
Diethyl phthalate	1.33	1.25		mg/Kg		93	58 - 120
2,4-Dimethylphenol	1.33	1.26		mg/Kg		94	60 - 110
Dimethyl phthalate	1.33	1.22		mg/Kg		91	69 - 116
Di-n-butyl phthalate	1.33	1.28		mg/Kg		96	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.387	J	mg/Kg		15	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		10	10 - 100
2,4-Dinitrotoluene	1.33	1.23		mg/Kg		92	69 - 124
2,6-Dinitrotoluene	1.33	1.22		mg/Kg		92	70 - 123
Di-n-octyl phthalate	1.33	1.24		mg/Kg		93	68 - 134
Fluoranthene	1.33	1.19		mg/Kg		89	62 - 120
Fluorene	1.33	1.22		mg/Kg		92	62 - 120
Hexachlorobenzene	1.33	1.15		mg/Kg		86	63 - 124
Hexachlorobutadiene	1.33	1.20		mg/Kg		90	56 - 120
Hexachlorocyclopentadiene	1.33	0.589	J	mg/Kg		44	10 - 133
Hexachloroethane	1.33	1.24		mg/Kg		93	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.38		mg/Kg		103	68 - 130
Isophorone	1.33	1.24		mg/Kg		93	55 - 110
2-Methylnaphthalene	1.33	1.20		mg/Kg		90	69 - 112
2-Methylphenol	1.33	1.22		mg/Kg		92	60 - 120
3 & 4 Methylphenol	1.33	1.30		mg/Kg		97	57 - 120
Naphthalene	1.33	1.19		mg/Kg		89	63 - 110
2-Nitroaniline	1.33	1.44		mg/Kg		108	57 - 124
3-Nitroaniline	1.33	1.10		mg/Kg		82	40 - 122
4-Nitroaniline	1.33	1.11		mg/Kg		83	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.18		mg/Kg		88	60 - 120
4-Nitrophenol	2.67	2.62		mg/Kg		98	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.32		mg/Kg		99	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.39		mg/Kg		104	40 - 124
Pentachlorophenol	2.67	0.906		mg/Kg		34	13 - 112
Phenanthrene	1.33	1.19		mg/Kg		89	62 - 120
Phenol	1.33	1.36		mg/Kg		102	56 - 122
Pyrene	1.33	1.23		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.18		mg/Kg		88	66 - 117
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	50 - 120
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Lab Sample ID: LCS 500-578231/2-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578231

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	92		43 - 145
2-Fluorophenol	99		31 - 166
Nitrobenzene-d5	92		37 - 147
Phenol-d5	92		30 - 153
Terphenyl-d14	94		42 - 157
2,4,6-Tribromophenol	86		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578221/1-A
Matrix: Solid
Analysis Batch: 578658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578221

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Barium	<0.11		1.0	0.11	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Copper	<0.28		1.0	0.28	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Iron	<10		20	10	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Lead	<0.23		0.50	0.23	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Magnesium	<5.0		10	5.0	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Calcium	<3.4		20	3.4	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Silver	0.131	J	0.50	0.13	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Potassium	19.6	J	50	18	mg/Kg		12/23/20 08:02	12/24/20 19:16	1
Sodium	<15		100	15	mg/Kg		12/23/20 08:02	12/24/20 19:16	1

Lab Sample ID: MB 500-578221/1-A
Matrix: Solid
Analysis Batch: 578790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578221

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nickel	<0.29		1.0	0.29	mg/Kg		12/23/20 08:02	12/28/20 15:19	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/23/20 08:02	12/28/20 15:19	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/23/20 08:02	12/28/20 15:19	1

Lab Sample ID: LCS 500-578221/2-A
Matrix: Solid
Analysis Batch: 578658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578221

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	50.0	44.6		mg/Kg		89	80 - 120
Arsenic	10.0	9.55		mg/Kg		96	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Lab Sample ID: LCS 500-578221/2-A
Matrix: Solid
Analysis Batch: 578658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.57		mg/Kg		91	80 - 120
Cadmium	5.00	4.61		mg/Kg		92	80 - 120
Chromium	20.0	18.3		mg/Kg		92	80 - 120
Cobalt	50.0	47.2		mg/Kg		94	80 - 120
Copper	25.0	24.1		mg/Kg		96	80 - 120
Iron	100	99.5		mg/Kg		100	80 - 120
Lead	10.0	9.14		mg/Kg		91	80 - 120
Magnesium	1000	882		mg/Kg		88	80 - 120
Calcium	1000	916		mg/Kg		92	80 - 120
Manganese	50.0	45.1		mg/Kg		90	80 - 120
Selenium	10.0	8.32		mg/Kg		83	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Thallium	10.0	9.62		mg/Kg		96	80 - 120
Potassium	1000	945		mg/Kg		95	80 - 120
Sodium	1000	953		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-578221/2-A
Matrix: Solid
Analysis Batch: 578790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.0		mg/Kg		92	80 - 120

Lab Sample ID: LCS 500-578797/2-A
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.498	J	mg/L		100	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Cadmium	0.0500	0.0517		mg/L		103	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.500	0.536		mg/L		107	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Iron	1.00	0.990		mg/L		99	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	9.37		mg/L		94	80 - 120
Calcium	10.0	9.99		mg/L		100	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.537		mg/L		107	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0537		mg/L		107	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120
Zinc	0.500	0.594		mg/L		119	80 - 120
Potassium	10.0	11.3		mg/L		113	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

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

Lab Sample ID: LB 500-578634/1-B
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578797

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Barium	<0.050		0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:31	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 22:31	1
Magnesium	<0.50		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1
Calcium	<0.50		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Potassium	<0.50		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-578797/2-A
Matrix: Solid
Analysis Batch: 578960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578797

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.484		mg/L		97	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LB 500-578634/1-B
Matrix: Solid
Analysis Batch: 578960

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578797

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 14:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 14:49	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-578876/12-A
Matrix: Solid
Analysis Batch: 579109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578876

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:40	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-578876/14-A
Matrix: Solid
Analysis Batch: 579109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578876
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00207		mg/L		103	80 - 120

Lab Sample ID: LB 500-578634/1-C
Matrix: Solid
Analysis Batch: 579109

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578876

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:42	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578273/12-A
Matrix: Solid
Analysis Batch: 578504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/23/20 13:40	12/24/20 09:27	1

Lab Sample ID: LCS 500-578273/13-A
Matrix: Solid
Analysis Batch: 578504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578273
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.175		mg/Kg		105	80 - 120

Lab Sample ID: 500-192716-1 MS
Matrix: Solid
Analysis Batch: 578504

Client Sample ID: 3972-COV-7-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 578273
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.033		0.102	0.141		mg/Kg	☼	105	75 - 125

Lab Sample ID: 500-192716-1 MSD
Matrix: Solid
Analysis Batch: 578504

Client Sample ID: 3972-COV-7-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 578273
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	0.033		0.103	0.144		mg/Kg	☼	107	75 - 125	2	20

Lab Sample ID: 500-192716-1 DU
Matrix: Solid
Analysis Batch: 578504

Client Sample ID: 3972-COV-7-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 578273
 %Rec.

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.033		0.0333		mg/Kg	☼	0.4	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578315/1-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.122	J	0.24	0.12	mg/Kg		12/23/20 12:32	12/23/20 14:04	1

Lab Sample ID: HLCS 500-578315/2-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.8		mg/Kg		106	90 - 110

Lab Sample ID: LCS 500-578315/3-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.73		mg/Kg		114	85 - 115

Lab Sample ID: LLCS 500-578315/4-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.49		mg/Kg		124	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

GC/MS VOA

Prep Batch: 578173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 578187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	8260B	578173
MB 500-578187/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578187/26	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578187/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	3541	
MB 500-578231/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578231/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 578463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	8270D	578231
MB 500-578231/1-A	Method Blank	Total/NA	Solid	8270D	578231
LCS 500-578231/2-A	Lab Control Sample	Total/NA	Solid	8270D	578231

Metals

Prep Batch: 578221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-578221/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578221/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 578273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-578273/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578273/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-192716-1 MS	3972-COV-7-B01 (0-2)	Total/NA	Solid	7471B	
500-192716-1 MSD	3972-COV-7-B01 (0-2)	Total/NA	Solid	7471B	
500-192716-1 DU	3972-COV-7-B01 (0-2)	Total/NA	Solid	7471B	

Analysis Batch: 578504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	7471B	578273
MB 500-578273/12-A	Method Blank	Total/NA	Solid	7471B	578273
LCS 500-578273/13-A	Lab Control Sample	Total/NA	Solid	7471B	578273
500-192716-1 MS	3972-COV-7-B01 (0-2)	Total/NA	Solid	7471B	578273
500-192716-1 MSD	3972-COV-7-B01 (0-2)	Total/NA	Solid	7471B	578273
500-192716-1 DU	3972-COV-7-B01 (0-2)	Total/NA	Solid	7471B	578273

Leach Batch: 578634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	TCLP	Solid	1311	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Metals (Continued)

Leach Batch: 578634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-578634/1-B	Method Blank	TCLP	Solid	1311	
LB 500-578634/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 578658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	6010B	578221
MB 500-578221/1-A	Method Blank	Total/NA	Solid	6010B	578221
LCS 500-578221/2-A	Lab Control Sample	Total/NA	Solid	6010B	578221

Analysis Batch: 578790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	6010B	578221
MB 500-578221/1-A	Method Blank	Total/NA	Solid	6010B	578221
LCS 500-578221/2-A	Lab Control Sample	Total/NA	Solid	6010B	578221

Prep Batch: 578797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	TCLP	Solid	3010A	578634
LB 500-578634/1-B	Method Blank	TCLP	Solid	3010A	578634
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 578876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	TCLP	Solid	7470A	578634
LB 500-578634/1-C	Method Blank	TCLP	Solid	7470A	578634
MB 500-578876/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-578876/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 578960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	TCLP	Solid	6020A	578797
LB 500-578634/1-B	Method Blank	TCLP	Solid	6020A	578797
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	6020A	578797

Analysis Batch: 579010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	TCLP	Solid	6010B	578797
LB 500-578634/1-B	Method Blank	TCLP	Solid	6010B	578797
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	6010B	578797

Analysis Batch: 579109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	TCLP	Solid	7470A	578876
LB 500-578634/1-C	Method Blank	TCLP	Solid	7470A	578876
MB 500-578876/12-A	Method Blank	Total/NA	Solid	7470A	578876
LCS 500-578876/14-A	Lab Control Sample	Total/NA	Solid	7470A	578876

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

General Chemistry

Analysis Batch: 578009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 578223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-578223/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578223/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	9010C	
MB 500-578315/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578315/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578315/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578315/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192716-1	3972-COV-7-B01 (0-2)	Total/NA	Solid	9012B	578315
MB 500-578315/1-A	Method Blank	Total/NA	Solid	9012B	578315
HLCS 500-578315/2-A	Lab Control Sample	Total/NA	Solid	9012B	578315
LCS 500-578315/3-A	Lab Control Sample	Total/NA	Solid	9012B	578315
LLCS 500-578315/4-A	Lab Control Sample	Total/NA	Solid	9012B	578315

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Client Sample ID: 3972-COV-7-B01 (0-2)

Lab Sample ID: 500-192716-1

Date Collected: 12/17/20 13:15

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6010B		1	579010	12/29/20 22:45	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6020A		1	578960	12/29/20 14:57	FXG	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	7470A			578876	12/29/20 09:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 07:50	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578223	12/22/20 21:29	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	578009	12/22/20 10:25	LWN	TAL CHI

Client Sample ID: 3972-COV-7-B01 (0-2)

Lab Sample ID: 500-192716-1

Date Collected: 12/17/20 13:15

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578173	12/18/20 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578187	12/23/20 17:31	JDD	TAL CHI
Total/NA	Prep	3541			578231	12/23/20 08:17	BSO	TAL CHI
Total/NA	Analysis	8270D		1	578463	12/24/20 16:37	SS	TAL CHI
Total/NA	Prep	3050B			578221	12/23/20 08:02	LMN	TAL CHI
Total/NA	Analysis	6010B		1	578658	12/24/20 20:08	EEN	TAL CHI
Total/NA	Prep	3050B			578221	12/23/20 08:02	LMN	TAL CHI
Total/NA	Analysis	6010B		1	578790	12/28/20 15:52	EEN	TAL CHI
Total/NA	Prep	7471B			578273	12/23/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578504	12/24/20 09:50	MJG	TAL CHI
Total/NA	Prep	9010C			578315	12/23/20 12:32	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578364	12/23/20 14:18	PSP	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192716-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192716-1	3972-COV-7-B01 (0-2)	Solid	12/17/20 13:15	12/17/20 17:30	

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

Client Contact Company Name: <u>Terracon</u> Address: <u>192 Etchings Blvd</u> City/State/Zip: <u>Glendale Heights, IL</u> Phone: <u>630-445-0160</u> Fax: _____ Project Name: <u>11207011W</u> Site: <u>11207011W</u> P O #: _____		Project Manager: <u>Rich O'Brien</u> Tel/Email: <u>rich.o'brien@terracon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>12/17/20</u> Carrier: _____		COC No: _____ of <u>1</u> COCs Sampler: <u>P.G.P.</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-192716</u>			
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" 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) _____ <u>VOC'S</u> <u>SUBC'S</u> <u>Total 23 Inorganics / PAH</u> <u>ICP 23 Inorganics</u> <u>SPLP 23 Inorganics</u>		 500-192716 COC		Sample Specific Notes: _____		_____		_____	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	_____		_____		
<u>3972-COU-7-B01 (0-2)</u>		<u>12/17/20</u>	<u>1315</u>	<u>G</u>	<u>Soil</u>	<u>6</u>	<u>XXXXXX</u>		_____		
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH; 6= Other _____		Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" 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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: <u>* NO ALUMINUM</u> <u>* Hold SPLP 23 Inorganics Per Terracon Instructions</u> <u>3.4 → 4.1, 2.1 → 0.2</u>											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____		_____		_____	
Relinquished by: <u>[Signature]</u>		Company: <u>Terracon</u>		Date/Time: <u>12/17/2020</u>		Received by: <u>[Signature]</u>		Company: <u>EA</u>		Date/Time: <u>12/17/20 1605</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>EA</u>		Date/Time: <u>12/20/20</u>		Received by: _____		Company: _____		Date/Time: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>[Signature]</u>		Company: <u>EA-01</u>		Date/Time: <u>12/18/20 0630</u>	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192716-1

Login Number: 192716

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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	1.1,-0.2 SAMPLES NOT FROZEN
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Irving Park Road (Westbound) IDOT STA 105+30 to 109+20 (ISGS Site 3972-COV-9)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Schaumburg

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

Latitude: 42.00502 Longitude: -88.14192

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 16

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 3972-COV-9. See Exhibit 2 and Table 13 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192920-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-9)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-9-B01 (0-1)
		Chicago	MSAs		Sample Depth (feet)	(0-1)
					Date Collected	12/22/2020
Volatile Organic Analytical Parameters						
Semivolatile Organic Analytical Parameters						
Anthracene	mg/kg	0.25	0.4	12000		0.0089
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.077
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.12
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.16
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.072
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.062
Chrysene	mg/kg	1.2	2.7	88		0.11
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.019
Fluoranthene	mg/kg	2.7	4.1	3100		0.20
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.061
Phenanthrene	mg/kg	1.3	2.5	210		0.068
Pyrene	mg/kg	1.9	3.0	2300		0.16
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7.8
Barium	mg/kg	---	110	1500		130
Cadmium	mg/kg	---	0.6	5.2		0.16
Chromium, total	mg/kg	---	16.2	21		19
Lead	mg/kg	---	36	107		35
Mercury	mg/kg	---	0.06	0.89		0.064
Selenium	mg/kg	---	0.48	1.3		0.68
Silver	mg/kg	---	0.55	4.4		0.16
Antimony	mg/kg	---	4.0	5		0.70
Beryllium	mg/kg	---	0.59	22		0.71
Calcium	mg/kg	---	9,300	---		4900
Cobalt	mg/kg	---	8.9	20		12
Copper	mg/kg	---	19.6	2900		15
Cyanide	mg/kg	---	0.51	---		0.49
Iron	mg/kg	---	15,900	15000		21000
Magnesium	mg/kg	---	4,820	325000		3700
Manganese	mg/kg	---	636	630		770
Nickel	mg/kg	---	18	100		22
Potassium	mg/kg	---	1,268	---		2100
Sodium	mg/kg	---	130	---		1000
Thallium	mg/kg	---	0.32	2.6		<0.31
Vanadium	mg/kg	---	25.2	550		35
Zinc	mg/kg	---	95	5100		140
pH			6.25	9		8.1

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA #3972-COV-9)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-9-B01 (0-1)
		Chicago	MSAs		Sample Depth (feet)	(0-1)
					Date Collected	12/22/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.39
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		86
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		0.99
Magnesium,TCLP	mg/L	---	---	---		30
Manganese,TCLP	mg/L	---	---	---		0.060
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		7.0
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.10

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192920-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
1/8/2021 3:49:03 PM

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

LINKS

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Job ID: 500-192920-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192920-1

Receipt

The sample was received on 12/22/2020 5:22 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-579346 and 500-579532 and analytical batch 500-579995 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

Method 9012B: The matrix spike duplicate (MSD) recovery for preparation batch 500-578930 and analytical batch 500-579127 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Client Sample ID: 3972-COV-9-B01 (0-1)

Lab Sample ID: 500-192920-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.0089	J	0.043	0.0073	mg/Kg	1	✳	8270D	Total/NA	
Benzo[a]anthracene	0.077		0.043	0.0058	mg/Kg	1	✳	8270D	Total/NA	
Benzo[a]pyrene	0.12		0.043	0.0084	mg/Kg	1	✳	8270D	Total/NA	
Benzo[b]fluoranthene	0.16		0.043	0.0094	mg/Kg	1	✳	8270D	Total/NA	
Benzo[g,h,i]perylene	0.072		0.043	0.014	mg/Kg	1	✳	8270D	Total/NA	
Benzo[k]fluoranthene	0.062		0.043	0.013	mg/Kg	1	✳	8270D	Total/NA	
Chrysene	0.11		0.043	0.012	mg/Kg	1	✳	8270D	Total/NA	
Dibenz(a,h)anthracene	0.019	J	0.043	0.0084	mg/Kg	1	✳	8270D	Total/NA	
Fluoranthene	0.20		0.043	0.0080	mg/Kg	1	✳	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.061		0.043	0.011	mg/Kg	1	✳	8270D	Total/NA	
Phenanthrene	0.068		0.043	0.0060	mg/Kg	1	✳	8270D	Total/NA	
Pyrene	0.16		0.043	0.0086	mg/Kg	1	✳	8270D	Total/NA	
Antimony	0.70	J	1.3	0.24	mg/Kg	1	✳	6010B	Total/NA	
Arsenic	7.8		0.63	0.21	mg/Kg	1	✳	6010B	Total/NA	
Barium	130		0.63	0.071	mg/Kg	1	✳	6010B	Total/NA	
Beryllium	0.71		0.25	0.058	mg/Kg	1	✳	6010B	Total/NA	
Cadmium	0.16		0.13	0.023	mg/Kg	1	✳	6010B	Total/NA	
Chromium	19		0.63	0.31	mg/Kg	1	✳	6010B	Total/NA	
Cobalt	12		0.31	0.082	mg/Kg	1	✳	6010B	Total/NA	
Copper	15		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA	
Iron	21000		13	6.5	mg/Kg	1	✳	6010B	Total/NA	
Lead	35		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA	
Magnesium	3700		6.3	3.1	mg/Kg	1	✳	6010B	Total/NA	
Calcium	4900	B	13	2.1	mg/Kg	1	✳	6010B	Total/NA	
Manganese	770		0.63	0.091	mg/Kg	1	✳	6010B	Total/NA	
Nickel	22		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA	
Selenium	0.68		0.63	0.37	mg/Kg	1	✳	6010B	Total/NA	
Silver	0.16	J	0.31	0.081	mg/Kg	1	✳	6010B	Total/NA	
Vanadium	35		0.31	0.074	mg/Kg	1	✳	6010B	Total/NA	
Zinc	140		1.3	0.55	mg/Kg	1	✳	6010B	Total/NA	
Potassium	2100		31	11	mg/Kg	1	✳	6010B	Total/NA	
Sodium	1000		63	9.3	mg/Kg	1	✳	6010B	Total/NA	
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	86		5.0	0.50	mg/L	1		6010B	TCLP	
Iron	0.99		0.40	0.20	mg/L	1		6010B	TCLP	
Magnesium	30		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.060		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	7.0		2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.10	J B **	0.50	0.020	mg/L	1		6010B	TCLP	
Mercury	0.064		0.020	0.0067	mg/Kg	1	✳	7471B	Total/NA	
Cyanide, Total	0.49	F1	0.30	0.15	mg/Kg	1	✳	9012B	Total/NA	
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA	

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Client Sample ID: 3972-COV-9-B01 (0-1)

Lab Sample ID: 500-192920-1

Date Collected: 12/22/20 14:10

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0088		0.020	0.0088	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Benzene	<0.00052		0.0020	0.00052	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
2-Butanone (MEK)	<0.0022		0.0051	0.0022	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Carbon tetrachloride	<0.00059		0.0020	0.00059	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Chlorobenzene	<0.00075		0.0020	0.00075	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Chloroethane	<0.0015		0.0051	0.0015	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Chloromethane	<0.0020		0.0051	0.0020	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
cis-1,2-Dichloroethene	<0.00057		0.0020	0.00057	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
1,1-Dichloroethene	<0.00070		0.0020	0.00070	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
1,2-Dichloropropene	<0.00052		0.0020	0.00052	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
1,3-Dichloropropene, Total	<0.00071		0.0020	0.00071	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Ethylbenzene	<0.00097		0.0020	0.00097	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0020	0.00065	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
trans-1,2-Dichloroethene	<0.00090		0.0020	0.00090	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
trans-1,3-Dichloropropene	<0.00071		0.0020	0.00071	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
1,1,2-Trichloroethane	<0.00087		0.0020	0.00087	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1
Xylenes, Total	<0.00065		0.0040	0.00065	mg/Kg	✳	12/23/20 17:29	12/31/20 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	12/23/20 17:29	12/31/20 14:56	1
Dibromofluoromethane	101		75 - 126	12/23/20 17:29	12/31/20 14:56	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	12/23/20 17:29	12/31/20 14:56	1
Toluene-d8 (Surr)	91		75 - 124	12/23/20 17:29	12/31/20 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0078		0.043	0.0078	mg/Kg	✳	12/29/20 20:35	12/30/20 17:16	1
Acenaphthylene	<0.0057		0.043	0.0057	mg/Kg	✳	12/29/20 20:35	12/30/20 17:16	1
Anthracene	0.0089	J	0.043	0.0073	mg/Kg	✳	12/29/20 20:35	12/30/20 17:16	1
Benzo[a]anthracene	0.077		0.043	0.0058	mg/Kg	✳	12/29/20 20:35	12/30/20 17:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Client Sample ID: 3972-COV-9-B01 (0-1)

Lab Sample ID: 500-192920-1

Date Collected: 12/22/20 14:10

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.12		0.043	0.0084	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Benzo[b]fluoranthene	0.16		0.043	0.0094	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Benzo[g,h,i]perylene	0.072		0.043	0.014	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Benzo[k]fluoranthene	0.062		0.043	0.013	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Bis(2-chloroethoxy)methane	<0.044		0.22	0.044	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Bis(2-chloroethyl)ether	<0.065		0.22	0.065	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Bis(2-ethylhexyl) phthalate	<0.079		0.22	0.079	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
4-Bromophenyl phenyl ether	<0.057		0.22	0.057	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Butyl benzyl phthalate	<0.083		0.22	0.083	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Carbazole	<0.11		0.22	0.11	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
4-Chloroaniline	<0.20		0.88	0.20	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
4-Chloro-3-methylphenol	<0.15		0.43	0.15	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2-Chloronaphthalene	<0.048		0.22	0.048	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2-Chlorophenol	<0.074		0.22	0.074	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
4-Chlorophenyl phenyl ether	<0.051		0.22	0.051	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Chrysene	0.11		0.043	0.012	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Dibenz(a,h)anthracene	0.019 J		0.043	0.0084	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Dibenzofuran	<0.051		0.22	0.051	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
1,2-Dichlorobenzene	<0.052		0.22	0.052	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
1,3-Dichlorobenzene	<0.049		0.22	0.049	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
1,4-Dichlorobenzene	<0.056		0.22	0.056	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
3,3'-Dichlorobenzidine	<0.061		0.22	0.061	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2,4-Dichlorophenol	<0.10		0.43	0.10	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Diethyl phthalate	<0.074		0.22	0.074	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2,4-Dimethylphenol	<0.16		0.43	0.16	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Dimethyl phthalate	<0.057		0.22	0.057	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Di-n-butyl phthalate	<0.066		0.22	0.066	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
4,6-Dinitro-2-methylphenol	<0.35		0.88	0.35	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2,4-Dinitrophenol	<0.76		0.88	0.76	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2,4-Dinitrotoluene	<0.069		0.22	0.069	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2,6-Dinitrotoluene	<0.085		0.22	0.085	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Di-n-octyl phthalate	<0.071		0.22	0.071	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Fluoranthene	0.20		0.043	0.0080	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Fluorene	<0.0061		0.043	0.0061	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Hexachlorobenzene	<0.010		0.088	0.010	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Hexachlorobutadiene	<0.068		0.22	0.068	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Hexachlorocyclopentadiene	<0.25		0.88	0.25	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Hexachloroethane	<0.066		0.22	0.066	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Indeno[1,2,3-cd]pyrene	0.061		0.043	0.011	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Isophorone	<0.049		0.22	0.049	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2-Methylnaphthalene	<0.0080		0.088	0.0080	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2-Methylphenol	<0.070		0.22	0.070	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
3 & 4 Methylphenol	<0.072		0.22	0.072	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Naphthalene	<0.0067		0.043	0.0067	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2-Nitroaniline	<0.058		0.22	0.058	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
3-Nitroaniline	<0.13		0.43	0.13	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
4-Nitroaniline	<0.18		0.43	0.18	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Nitrobenzene	<0.011		0.043	0.011	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2-Nitrophenol	<0.10		0.43	0.10	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Client Sample ID: 3972-COV-9-B01 (0-1)

Lab Sample ID: 500-192920-1

Date Collected: 12/22/20 14:10

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.41		0.88	0.41	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
N-Nitrosodi-n-propylamine	<0.053		0.088	0.053	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
N-Nitrosodiphenylamine	<0.051		0.22	0.051	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2,2'-oxybis[1-chloropropane]	<0.050		0.22	0.050	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Pentachlorophenol	<0.70		0.88	0.70	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Phenanthrene	0.068		0.043	0.0060	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Phenol	<0.096		0.22	0.096	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Pyrene	0.16		0.043	0.0086	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
1,2,4-Trichlorobenzene	<0.047		0.22	0.047	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2,4,5-Trichlorophenol	<0.099		0.43	0.099	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
2,4,6-Trichlorophenol	<0.15		0.43	0.15	mg/Kg	☼	12/29/20 20:35	12/30/20 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		43 - 145				12/29/20 20:35	12/30/20 17:16	1
2-Fluorophenol	65		31 - 166				12/29/20 20:35	12/30/20 17:16	1
Nitrobenzene-d5	68		37 - 147				12/29/20 20:35	12/30/20 17:16	1
Phenol-d5	71		30 - 153				12/29/20 20:35	12/30/20 17:16	1
Terphenyl-d14	76		42 - 157				12/29/20 20:35	12/30/20 17:16	1
2,4,6-Tribromophenol	69		31 - 143				12/29/20 20:35	12/30/20 17:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J	1.3	0.24	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Arsenic	7.8		0.63	0.21	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Barium	130		0.63	0.071	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Beryllium	0.71		0.25	0.058	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Cadmium	0.16		0.13	0.023	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Chromium	19		0.63	0.31	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Cobalt	12		0.31	0.082	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Copper	15		0.63	0.18	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Iron	21000		13	6.5	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Lead	35		0.31	0.14	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Magnesium	3700		6.3	3.1	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Calcium	4900	B	13	2.1	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Manganese	770		0.63	0.091	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Nickel	22		0.63	0.18	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Selenium	0.68		0.63	0.37	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Silver	0.16	J	0.31	0.081	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Thallium	<0.31		0.63	0.31	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Vanadium	35		0.31	0.074	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Zinc	140		1.3	0.55	mg/Kg	☼	12/30/20 06:38	01/05/21 20:05	1
Potassium	2100		31	11	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1
Sodium	1000		63	9.3	mg/Kg	☼	12/30/20 06:38	01/04/21 17:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 22:14	1
Barium	0.39	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:53	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 22:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Client Sample ID: 3972-COV-9-B01 (0-1)

Lab Sample ID: 500-192920-1

Date Collected: 12/22/20 14:10

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	86		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:53	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:14	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:14	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:14	1
Iron	0.99		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 22:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:42	1
Magnesium	30		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:53	1
Manganese	0.060		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:53	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:14	1
Potassium	7.0		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:53	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:42	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:14	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:14	1
Zinc	0.10	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.020	0.0067	mg/Kg	⊛	12/30/20 13:05	12/31/20 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.49	F1	0.30	0.15	mg/Kg	⊛	12/29/20 14:12	12/29/20 16:07	1
pH	8.1		0.2	0.2	SU			12/28/20 17:46	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192920-1	3972-COV-9-B01 (0-1)	89	101	90	91
LCS 500-579222/4	Lab Control Sample	87	88	76	96
LCSD 500-579222/5	Lab Control Sample Dup	89	90	77	94
MB 500-579222/7	Method Blank	93	96	84	91

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192920-1	3972-COV-9-B01 (0-1)	65	65	68	71	76	69
LCS 500-578995/2-A	Lab Control Sample	103	104	108	103	97	112
MB 500-578995/1-A	Method Blank	97	92	100	95	88	86

Surrogate Legend

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: MB 500-579222/7

Matrix: Solid

Analysis Batch: 579222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/31/20 11:07	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/31/20 11:07	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/31/20 11:07	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/31/20 11:07	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/31/20 11:07	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/31/20 11:07	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/31/20 11:07	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/31/20 11:07	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/31/20 11:07	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/31/20 11:07	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/31/20 11:07	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/31/20 11:07	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/31/20 11:07	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/31/20 11:07	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/31/20 11:07	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/31/20 11:07	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/31/20 11:07	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/31/20 11:07	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/31/20 11:07	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/31/20 11:07	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/31/20 11:07	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/31/20 11:07	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/31/20 11:07	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/31/20 11:07	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/31/20 11:07	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/31/20 11:07	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/31/20 11:07	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/31/20 11:07	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/31/20 11:07	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/31/20 11:07	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/31/20 11:07	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/31/20 11:07	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/31/20 11:07	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/31/20 11:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		75 - 131		12/31/20 11:07	1
Dibromofluoromethane	96		75 - 126		12/31/20 11:07	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		12/31/20 11:07	1
Toluene-d8 (Surr)	91		75 - 124		12/31/20 11:07	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: LCS 500-579222/4

Matrix: Solid

Analysis Batch: 579222

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	0.0413		mg/Kg		83	40 - 150
Benzene	0.0500	0.0499		mg/Kg		100	70 - 125
Bromodichloromethane	0.0500	0.0446		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0444		mg/Kg		89	68 - 136
Bromomethane	0.0500	0.0411		mg/Kg		82	70 - 130
2-Butanone (MEK)	0.0500	0.0312		mg/Kg		62	47 - 138
Carbon disulfide	0.0500	0.0533		mg/Kg		107	70 - 129
Carbon tetrachloride	0.0500	0.0528		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0505		mg/Kg		101	50 - 150
Chloroethane	0.0500	0.0537		mg/Kg		107	75 - 125
Chloroform	0.0500	0.0464		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0458		mg/Kg		92	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0398		mg/Kg		80	70 - 125
Dibromochloromethane	0.0500	0.0480		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0555		mg/Kg		111	70 - 125
1,2-Dichloroethane	0.0500	0.0410		mg/Kg		82	70 - 130
1,1-Dichloroethene	0.0500	0.0519		mg/Kg		104	70 - 120
1,2-Dichloropropane	0.0500	0.0515		mg/Kg		103	70 - 125
Ethylbenzene	0.0500	0.0529		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0338		mg/Kg		68	48 - 146
Methylene Chloride	0.0500	0.0455		mg/Kg		91	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0321		mg/Kg		64	50 - 148
Methyl tert-butyl ether	0.0500	0.0362		mg/Kg		72	50 - 140
Styrene	0.0500	0.0502		mg/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0390		mg/Kg		78	70 - 122
Tetrachloroethene	0.0500	0.0526		mg/Kg		105	70 - 124
Toluene	0.0500	0.0517		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0526		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0376		mg/Kg		75	70 - 125
1,1,1-Trichloroethane	0.0500	0.0495		mg/Kg		99	70 - 128
1,1,2-Trichloroethane	0.0500	0.0432		mg/Kg		86	70 - 125
Trichloroethene	0.0500	0.0532		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0286		mg/Kg		57	40 - 153
Vinyl chloride	0.0500	0.0528		mg/Kg		106	70 - 125
Xylenes, Total	0.100	0.0976		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	87		75 - 131
Dibromofluoromethane	88		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: LCSD 500-579222/5
Matrix: Solid
Analysis Batch: 579222

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	0.0382		mg/Kg		76	40 - 150	8	30
Benzene	0.0500	0.0520		mg/Kg		104	70 - 125	4	30
Bromodichloromethane	0.0500	0.0468		mg/Kg		94	67 - 129	5	30
Bromoform	0.0500	0.0482		mg/Kg		96	68 - 136	8	30
Bromomethane	0.0500	0.0395		mg/Kg		79	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0323		mg/Kg		65	47 - 138	4	30
Carbon disulfide	0.0500	0.0548		mg/Kg		110	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0551		mg/Kg		110	75 - 125	4	30
Chlorobenzene	0.0500	0.0531		mg/Kg		106	50 - 150	5	30
Chloroethane	0.0500	0.0529		mg/Kg		106	75 - 125	2	30
Chloroform	0.0500	0.0485		mg/Kg		97	57 - 135	4	30
Chloromethane	0.0500	0.0446		mg/Kg		89	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0426		mg/Kg		85	70 - 125	7	30
Dibromochloromethane	0.0500	0.0508		mg/Kg		102	69 - 125	6	30
1,1-Dichloroethane	0.0500	0.0575		mg/Kg		115	70 - 125	4	30
1,2-Dichloroethane	0.0500	0.0443		mg/Kg		89	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0538		mg/Kg		108	70 - 120	3	30
1,2-Dichloropropane	0.0500	0.0552		mg/Kg		110	70 - 125	7	30
Ethylbenzene	0.0500	0.0554		mg/Kg		111	61 - 136	5	30
2-Hexanone	0.0500	0.0362		mg/Kg		72	48 - 146	7	30
Methylene Chloride	0.0500	0.0466		mg/Kg		93	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0337		mg/Kg		67	50 - 148	5	30
Methyl tert-butyl ether	0.0500	0.0380		mg/Kg		76	50 - 140	5	30
Styrene	0.0500	0.0521		mg/Kg		104	70 - 125	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0419		mg/Kg		84	70 - 122	7	30
Tetrachloroethene	0.0500	0.0546		mg/Kg		109	70 - 124	4	30
Toluene	0.0500	0.0531		mg/Kg		106	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0410		mg/Kg		82	70 - 125	9	30
1,1,1-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 125	8	30
Trichloroethene	0.0500	0.0561		mg/Kg		112	70 - 125	5	30
Vinyl acetate	0.0500	0.0311		mg/Kg		62	40 - 153	8	30
Vinyl chloride	0.0500	0.0508		mg/Kg		102	70 - 125	4	30
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: MB 500-578995/1-A
Matrix: Solid
Analysis Batch: 579059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578995

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/29/20 20:35	12/30/20 11:56	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: MB 500-578995/1-A
Matrix: Solid
Analysis Batch: 579059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/29/20 20:35	12/30/20 11:56	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/29/20 20:35	12/30/20 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145	12/29/20 20:35	12/30/20 11:56	1
2-Fluorophenol	92		31 - 166	12/29/20 20:35	12/30/20 11:56	1
Nitrobenzene-d5	100		37 - 147	12/29/20 20:35	12/30/20 11:56	1
Phenol-d5	95		30 - 153	12/29/20 20:35	12/30/20 11:56	1
Terphenyl-d14	88		42 - 157	12/29/20 20:35	12/30/20 11:56	1
2,4,6-Tribromophenol	86		31 - 143	12/29/20 20:35	12/30/20 11:56	1

Lab Sample ID: LCS 500-578995/2-A
Matrix: Solid
Analysis Batch: 579059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.28		mg/Kg		96	65 - 124
Acenaphthylene	1.33	1.26		mg/Kg		94	68 - 120
Anthracene	1.33	1.27		mg/Kg		95	70 - 114
Benzo[a]anthracene	1.33	1.14		mg/Kg		85	67 - 122
Benzo[a]pyrene	1.33	1.34		mg/Kg		101	65 - 133
Benzo[b]fluoranthene	1.33	1.47		mg/Kg		110	69 - 129
Benzo[g,h,i]perylene	1.33	1.34		mg/Kg		101	72 - 131
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		101	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.14		mg/Kg		86	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.22		mg/Kg		91	72 - 131
4-Bromophenyl phenyl ether	1.33	1.36		mg/Kg		102	68 - 118
Butyl benzyl phthalate	1.33	1.19		mg/Kg		89	71 - 129
Carbazole	1.33	1.38		mg/Kg		103	65 - 142
4-Chloroaniline	1.33	1.24		mg/Kg		93	30 - 150
4-Chloro-3-methylphenol	1.33	1.35		mg/Kg		101	65 - 122
2-Chloronaphthalene	1.33	1.29		mg/Kg		97	69 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		93	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: LCS 500-578995/2-A
Matrix: Solid
Analysis Batch: 579059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.33		mg/Kg		100	62 - 119
Chrysene	1.33	1.18		mg/Kg		88	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.32		mg/Kg		99	66 - 115
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.11		mg/Kg		84	65 - 124
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.980		mg/Kg		74	35 - 128
2,4-Dichlorophenol	1.33	1.28		mg/Kg		96	58 - 120
Diethyl phthalate	1.33	1.36		mg/Kg		102	58 - 120
2,4-Dimethylphenol	1.33	1.31		mg/Kg		98	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		95	69 - 116
Di-n-butyl phthalate	1.33	1.34		mg/Kg		100	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.749		mg/Kg		28	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		16	10 - 100
2,4-Dinitrotoluene	1.33	1.33		mg/Kg		100	69 - 124
2,6-Dinitrotoluene	1.33	1.26		mg/Kg		95	70 - 123
Di-n-octyl phthalate	1.33	1.32		mg/Kg		99	68 - 134
Fluoranthene	1.33	1.29		mg/Kg		97	62 - 120
Fluorene	1.33	1.28		mg/Kg		96	62 - 120
Hexachlorobenzene	1.33	1.32		mg/Kg		99	63 - 124
Hexachlorobutadiene	1.33	1.28		mg/Kg		96	56 - 120
Hexachlorocyclopentadiene	1.33	0.520	J	mg/Kg		39	10 - 133
Hexachloroethane	1.33	1.26		mg/Kg		94	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.35		mg/Kg		101	68 - 130
Isophorone	1.33	1.26		mg/Kg		94	55 - 110
2-Methylnaphthalene	1.33	1.24		mg/Kg		93	69 - 112
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
3 & 4 Methylphenol	1.33	1.29		mg/Kg		97	57 - 120
Naphthalene	1.33	1.22		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.53		mg/Kg		115	57 - 124
3-Nitroaniline	1.33	1.13		mg/Kg		85	40 - 122
4-Nitroaniline	1.33	1.13		mg/Kg		85	60 - 160
Nitrobenzene	1.33	1.25		mg/Kg		94	60 - 116
2-Nitrophenol	1.33	1.18		mg/Kg		88	60 - 120
4-Nitrophenol	2.67	3.15		mg/Kg		118	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.38		mg/Kg		104	56 - 118
N-Nitrosodiphenylamine	1.33	1.25		mg/Kg		94	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.47		mg/Kg		110	40 - 124
Pentachlorophenol	2.67	1.91		mg/Kg		72	13 - 112
Phenanthrene	1.33	1.26		mg/Kg		95	62 - 120
Phenol	1.33	1.34		mg/Kg		100	56 - 122
Pyrene	1.33	1.16		mg/Kg		87	61 - 128
1,2,4-Trichlorobenzene	1.33	1.25		mg/Kg		94	66 - 117
2,4,5-Trichlorophenol	1.33	1.31		mg/Kg		98	50 - 120
2,4,6-Trichlorophenol	1.33	1.30		mg/Kg		97	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: LCS 500-578995/2-A
Matrix: Solid
Analysis Batch: 579059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578995

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	103		43 - 145
2-Fluorophenol	104		31 - 166
Nitrobenzene-d5	108		37 - 147
Phenol-d5	103		30 - 153
Terphenyl-d14	97		42 - 157
2,4,6-Tribromophenol	112		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-579019/1-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579019

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Barium	<0.11		1.0	0.11	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Copper	<0.28		1.0	0.28	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Iron	<10		20	10	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Lead	<0.23		0.50	0.23	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Magnesium	<5.0		10	5.0	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Calcium	12.9	J	20	3.4	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Silver	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Potassium	<18		50	18	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Sodium	<15		100	15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1

Lab Sample ID: LCS 500-579019/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579019

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	44.3		mg/Kg		89		80 - 120
Arsenic	10.0	9.74		mg/Kg		97		80 - 120
Barium	200	198		mg/Kg		99		80 - 120
Beryllium	5.00	4.95		mg/Kg		99		80 - 120
Cadmium	5.00	4.75		mg/Kg		95		80 - 120
Chromium	20.0	19.9		mg/Kg		100		80 - 120
Cobalt	50.0	50.7		mg/Kg		101		80 - 120
Copper	25.0	24.6		mg/Kg		99		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: LCS 500-579019/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.83		mg/Kg		98	80 - 120
Magnesium	1000	994		mg/Kg		99	80 - 120
Calcium	1000	1030		mg/Kg		103	80 - 120
Manganese	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	50.0		mg/Kg		100	80 - 120
Selenium	10.0	8.85		mg/Kg		89	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Thallium	10.0	9.95		mg/Kg		100	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	49.6		mg/Kg		99	80 - 120
Potassium	1000	965		mg/Kg		97	80 - 120
Sodium	1000	984		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Nickel	0.500	0.541		mg/L		108	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Zinc	0.500	0.606	*+	mg/L		121	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.050		0.50	0.050	mg/L		01/04/21 17:53	01/05/21 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/05/21 23:59	1
Magnesium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Calcium	<0.50		5.0	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/05/21 23:59	1
Potassium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:27	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Zinc	0.0239	J	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:27	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 17:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 17:55	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:39	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579477/12-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:01	1

Lab Sample ID: LCS 500-579477/14-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-579346/1-B
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579477

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:03	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-579093/12-A
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/30/20 13:05	12/31/20 08:17	1

Lab Sample ID: LCS 500-579093/13-A
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Lab Sample ID: 500-192920-1 MS
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: 3972-COV-9-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 579093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.064		0.101	0.174		mg/Kg	☼	110	75 - 125

Lab Sample ID: 500-192920-1 MSD
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: 3972-COV-9-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 579093

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.064		0.101	0.178		mg/Kg	☼	113	75 - 125	2	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

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

Lab Sample ID: 500-192920-1 DU
 Matrix: Solid
 Analysis Batch: 579294

Client Sample ID: 3972-COV-9-B01 (0-1)
 Prep Type: Total/NA
 Prep Batch: 579093

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.064		0.0606		mg/Kg	☼	5	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578930/1-A
 Matrix: Solid
 Analysis Batch: 579127

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/29/20 14:12	12/29/20 16:00	1

Lab Sample ID: HLCS 500-578930/2-A
 Matrix: Solid
 Analysis Batch: 579127

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578930

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.4		mg/Kg		95	90 - 110

Lab Sample ID: LCS 500-578930/3-A
 Matrix: Solid
 Analysis Batch: 579127

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578930

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.70		mg/Kg		113	85 - 115

Lab Sample ID: LLCS 500-578930/4-A
 Matrix: Solid
 Analysis Batch: 579127

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578930

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.35		mg/Kg		113	75 - 125

Lab Sample ID: 500-192920-1 MS
 Matrix: Solid
 Analysis Batch: 579127

Client Sample ID: 3972-COV-9-B01 (0-1)
 Prep Type: Total/NA
 Prep Batch: 578930

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.49	F1	1.46	1.60		mg/Kg	☼	76	75 - 125

Lab Sample ID: 500-192920-1 MSD
 Matrix: Solid
 Analysis Batch: 579127

Client Sample ID: 3972-COV-9-B01 (0-1)
 Prep Type: Total/NA
 Prep Batch: 578930

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	0.49	F1	1.48	1.58	F1	mg/Kg	☼	74	75 - 125	1	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Method: 9045D - pH

Lab Sample ID: 500-192920-1 DU

Matrix: Solid

Analysis Batch: 578810

Client Sample ID: 3972-COV-9-B01 (0-1)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.1		8.3		SU		3	

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

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

GC/MS VOA

Prep Batch: 578788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	5035	

Analysis Batch: 579222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	8260B	578788
MB 500-579222/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-579222/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-579222/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	3541	
MB 500-578995/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578995/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 579059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	8270D	578995
MB 500-578995/1-A	Method Blank	Total/NA	Solid	8270D	578995
LCS 500-578995/2-A	Lab Control Sample	Total/NA	Solid	8270D	578995

Metals

Prep Batch: 579019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	3050B	
MB 500-579019/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 579093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	7471B	
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-192920-1 MS	3972-COV-9-B01 (0-1)	Total/NA	Solid	7471B	
500-192920-1 MSD	3972-COV-9-B01 (0-1)	Total/NA	Solid	7471B	
500-192920-1 DU	3972-COV-9-B01 (0-1)	Total/NA	Solid	7471B	

Analysis Batch: 579294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	7471B	579093
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	579093
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	579093
500-192920-1 MS	3972-COV-9-B01 (0-1)	Total/NA	Solid	7471B	579093
500-192920-1 MSD	3972-COV-9-B01 (0-1)	Total/NA	Solid	7471B	579093
500-192920-1 DU	3972-COV-9-B01 (0-1)	Total/NA	Solid	7471B	579093

Leach Batch: 579346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	TCLP	Solid	1311	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Metals (Continued)

Leach Batch: 579346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-579346/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579346/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 579477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	TCLP	Solid	7470A	579346
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579346
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	TCLP	Solid	3010A	579346
LB 500-579346/1-C	Method Blank	TCLP	Solid	3010A	579346
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	6010B	579019
MB 500-579019/1-A	Method Blank	Total/NA	Solid	6010B	579019
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	6010B	579019

Analysis Batch: 579681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	TCLP	Solid	7470A	579477
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579477
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	579477
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	579477

Analysis Batch: 579700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	TCLP	Solid	6020A	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6020A	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6020A	579532

Analysis Batch: 579796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	6010B	579019

Analysis Batch: 579797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Analysis Batch: 579995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Metals

Analysis Batch: 580182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

General Chemistry

Analysis Batch: 578421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	Moisture	

Analysis Batch: 578810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	9045D	
LCS 500-578810/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578810/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-192920-1 DU	3972-COV-9-B01 (0-1)	Total/NA	Solid	9045D	

Prep Batch: 578930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	9010C	
MB 500-578930/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578930/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578930/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578930/4-A	Lab Control Sample	Total/NA	Solid	9010C	
500-192920-1 MS	3972-COV-9-B01 (0-1)	Total/NA	Solid	9010C	
500-192920-1 MSD	3972-COV-9-B01 (0-1)	Total/NA	Solid	9010C	

Analysis Batch: 579127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192920-1	3972-COV-9-B01 (0-1)	Total/NA	Solid	9012B	578930
MB 500-578930/1-A	Method Blank	Total/NA	Solid	9012B	578930
HLCS 500-578930/2-A	Lab Control Sample	Total/NA	Solid	9012B	578930
LCS 500-578930/3-A	Lab Control Sample	Total/NA	Solid	9012B	578930
LLCS 500-578930/4-A	Lab Control Sample	Total/NA	Solid	9012B	578930
500-192920-1 MS	3972-COV-9-B01 (0-1)	Total/NA	Solid	9012B	578930
500-192920-1 MSD	3972-COV-9-B01 (0-1)	Total/NA	Solid	9012B	578930

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Client Sample ID: 3972-COV-9-B01 (0-1)

Lab Sample ID: 500-192920-1

Date Collected: 12/22/20 14:10

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:53	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 22:14	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:42	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:07	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:37	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578810	12/28/20 17:46	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578421	12/24/20 07:45	LWN	TAL CHI

Client Sample ID: 3972-COV-9-B01 (0-1)

Lab Sample ID: 500-192920-1

Date Collected: 12/22/20 14:10

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578788	12/23/20 17:29	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579222	12/31/20 14:56	PMF	TAL CHI
Total/NA	Prep	3541			578995	12/29/20 20:35	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579059	12/30/20 17:16	NRJ	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 17:57	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579796	01/05/21 20:05	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 08:50	MJG	TAL CHI
Total/NA	Prep	9010C			578930	12/29/20 14:12	PSP	TAL CHI
Total/NA	Analysis	9012B		1	579127	12/29/20 16:07	PSP	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192920-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192920-1	3972-COV-9-B01 (0-1)	Solid	12/22/20 14:10	12/22/20 17:22	

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: Rick O'Brien		Site Contact:		Date: 12/22/20		COC No:		
Company Name: <i>TERRACON</i>		Tel/Email: <i>matt.wessel@terracon.com</i>		Lab Contact:		Carrier:		L of 1 COCs		
Address: <i>192 Exchange Blvd</i>		Analysis Turnaround Time								
City/State/Zip: <i>Glendale Heights, IL</i>										
Phone: <i>630-445-0166</i>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>VOCS</i> <i>SUDCS</i> <i>Total Organics/PAH</i> <i>TCU/23 Inorganics</i> <i>SUP 23 Inorganics</i>		 500-192920 COC		Sampler: <i>D.G.F.</i>		
Fax:		TAT if different from Below _____						For Lab Use Only:		
Project Name: <i>11207011W</i>		<input checked="" type="checkbox"/> 2 weeks						Walk-in Client: _____		
Site: <i>11207011W</i>		<input type="checkbox"/> 1 week						Lab Sampling: _____		
P O #		<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 day		Job / SDG No.:		<i>500-192920</i>		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
<i>3972-CON-9-B01 (0-1)</i>		<i>12/22/20</i>	<i>1410</i>	<i>G</i>	<i>2-1</i>	<i>6</i>	<i>MMXX</i>			
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 checked="" type="checkbox"/> Non-Hazardous <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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments: <i>*NO Aluminum</i> <i>* Hold SUP 23 Inorganics Per Terracon Instructions 3.8-3.5</i>										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Therm ID No.:		Corr'd: _____		
Relinquished by: <i>[Signature]</i>		Company: <i>TERRACON</i>		Date/Time: <i>12/22/20</i>		Received by: <i>P. Ned</i>		Company: <i>ETA</i>		
Relinquished by: <i>P. Ned</i>		Company: <i>ETA</i>		Date/Time: <i>12/23/20</i>		Received by: <i>[Signature]</i>		Company: <i>ETA-CPH</i>		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Date/Time: <i>12/23/20 0800</i>		

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192920-1

Login Number: 192920

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Irving Park (Westbound) IDOT STA 103+07 to 105+30 (ISGS Site 3972-COV-10)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Schaumburg

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

Latitude: 42.00524 Longitude: - 88.14236
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 19

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B02 was sampled adjacent to ISGS Site No 3972-COV-10. See Exhibit 2 and Table 15 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192915-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-10)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-10-B01 (0-1)	3972-COV-10-B02 (0-1)
		Chicago	MSAs		Sample Depth (feet)	(0-1)	(0-1)
					Date Collected	12/22/2020	12/22/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		<0.0076	0.032
2-Butanone	mg/kg	---	---	17		<0.0019	0.0087
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0071	0.033
Anthracene	mg/kg	0.25	0.4	12000		0.032	0.087
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.20	0.33
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.32	0.46
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.54	0.74
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.16	0.17
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.23	0.23
Chrysene	mg/kg	1.2	2.7	88		0.28	0.37
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.036	0.047
Fluoranthene	mg/kg	2.7	4.1	3100		0.56	0.99
Fluorene	mg/kg	0.1	0.18	560		0.0066	0.032
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.14	0.16
Phenanthrene	mg/kg	1.3	2.5	210		0.18	0.48
Pyrene	mg/kg	1.9	3.0	2300		0.48	0.86
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.8	7.5
Barium	mg/kg	---	110	1500		81	98
Cadmium	mg/kg	---	0.6	5.2		0.15	0.17
Chromium, total	mg/kg	---	16.2	21		17	21
Lead	mg/kg	---	36	107		41	67
Mercury	mg/kg	---	0.06	0.89		0.035	0.037
Selenium	mg/kg	---	0.48	1.3		0.35	<0.36
Silver	mg/kg	---	0.55	4.4		<0.072	<0.079
Antimony	mg/kg	---	4.0	5		0.64	0.52
Beryllium	mg/kg	---	0.59	22		0.62	0.75
Calcium	mg/kg	---	9,300	---		58000	33000
Cobalt	mg/kg	---	8.9	20		9.3	11
Copper	mg/kg	---	19.6	2900		21	25
Cyanide	mg/kg	---	0.51	---		0.32	0.25
Iron	mg/kg	---	15,900	15000		17000	20000
Magnesium	mg/kg	---	4,820	325000		25000	20000
Manganese	mg/kg	---	636	630		400	380
Nickel	mg/kg	---	18	100		22	28
Potassium	mg/kg	---	1,268	---		2300	2600
Sodium	mg/kg	---	130	---		130	580
Thallium	mg/kg	---	0.32	2.6		<0.28	<0.31
Vanadium	mg/kg	---	25.2	550		28	31
Zinc	mg/kg	---	95	5100		88	97
pH			6.25	9		8.2	8.5

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-10)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-10-B01 (0-1)	3972-COV-10-B02 (0-1)
		Chicago	MSAs		Sample Depth (feet)	(0-1)	(0-1)
					Date Collected	12/22/2020	12/22/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		--	0.58
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.47	0.57
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		340	340
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		100	100
Manganese,TCLP	mg/L	---	---	---		0.026	1.4
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		2.7	3.4
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.037	0.048

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192915-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
1/8/2021 11:10:13 AM

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

LINKS

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Job ID: 500-192915-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192915-1

Receipt

The samples were received on 12/22/2020 5:22 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-192915-F-1-E MS) and (500-192915-F-1-F MSD)

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

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-579346 and 500-579532 and analytical batch 500-579995 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

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: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B01 (0-1)

Lab Sample ID: 500-192915-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.032	J	0.039	0.0066	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.20		0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.32		0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.54		0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.16	F1	0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.23		0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.084	J	0.20	0.072	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.28		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.036	J F1	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.56		0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0066	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14	F1	0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.18		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.48		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.64	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.8		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	81		0.56	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.62		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.15		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.3		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	17000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	41		1.4	0.64	mg/Kg	5	✳	6010B	Total/NA
Magnesium	25000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	58000	B	56	9.4	mg/Kg	5	✳	6010B	Total/NA
Manganese	400		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	22		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.35	J	0.56	0.33	mg/Kg	1	✳	6010B	Total/NA
Vanadium	28		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	88		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	130		56	8.2	mg/Kg	1	✳	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J B **	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.035		0.020	0.0065	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.32		0.28	0.14	mg/Kg	1	✳	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-10-B02 (0-1)

Lab Sample ID: 500-192915-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032		0.019	0.0084	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0087		0.0048	0.0021	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.033	J	0.041	0.0074	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.087		0.041	0.0068	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.33		0.041	0.0055	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B02 (0-1) (Continued)

Lab Sample ID: 500-192915-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.46		0.041	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.74		0.041	0.0088	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.17		0.041	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.23		0.041	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.37		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.047		0.041	0.0079	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.99		0.041	0.0076	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.032	J	0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.48		0.041	0.0057	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.86		0.041	0.0081	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.52	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.5		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	98		0.61	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.75		0.25	0.057	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.17		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	21		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.31	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		12	6.4	mg/Kg	1	✳	6010B	Total/NA
Lead	67		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	20000		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	33000	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	380		0.61	0.089	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Vanadium	31		0.31	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	97		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Potassium	2600		31	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	580		61	9.1	mg/Kg	1	✳	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.048	J B **	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.58		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.021	0.0069	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.25	J	0.29	0.14	mg/Kg	1	✳	9012B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B01 (0-1)

Lab Sample ID: 500-192915-1

Date Collected: 12/22/20 14:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.017	0.0076	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Benzene	<0.00045		0.0017	0.00045	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Bromodichloromethane	<0.00036		0.0017	0.00036	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Carbon tetrachloride	<0.00051		0.0017	0.00051	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Chloroform	<0.00061		0.0017	0.00061	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
cis-1,3-Dichloropropene	<0.00053		0.0017	0.00053	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
1,2-Dichloropropene	<0.00045		0.0017	0.00045	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Ethylbenzene	<0.00084		0.0017	0.00084	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Tetrachloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
1,1,1-Trichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	12/22/20 18:05	12/30/20 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	12/22/20 18:05	12/30/20 15:08	1
Dibromofluoromethane	102		75 - 126	12/22/20 18:05	12/30/20 15:08	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/22/20 18:05	12/30/20 15:08	1
Toluene-d8 (Surr)	92		75 - 124	12/22/20 18:05	12/30/20 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
Anthracene	0.032	J	0.039	0.0066	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
Benzo[a]anthracene	0.20		0.039	0.0053	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B01 (0-1)

Lab Sample ID: 500-192915-1

Date Collected: 12/22/20 14:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.32		0.039	0.0076	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Benzo[b]fluoranthene	0.54		0.039	0.0085	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Benzo[g,h,i]perylene	0.16	F1	0.039	0.013	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Benzo[k]fluoranthene	0.23		0.039	0.012	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Bis(2-ethylhexyl) phthalate	0.084	J	0.20	0.072	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Carbazole	<0.098		0.20	0.098	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Chrysene	0.28		0.039	0.011	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Dibenz(a,h)anthracene	0.036	J F1	0.039	0.0076	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
3,3'-Dichlorobenzidine	<0.055	F1	0.20	0.055	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
4,6-Dinitro-2-methylphenol	<0.32	F1	0.79	0.32	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2,4-Dinitrophenol	<0.69	F1	0.79	0.69	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Di-n-octyl phthalate	<0.064	F1	0.20	0.064	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Fluoranthene	0.56		0.039	0.0073	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Fluorene	0.0066	J	0.039	0.0055	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Hexachlorocyclopentadiene	<0.23	F1	0.79	0.23	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Hexachloroethane	<0.060	F1	0.20	0.060	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Indeno[1,2,3-cd]pyrene	0.14	F1	0.039	0.010	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Isophorone	<0.044		0.20	0.044	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	✳	12/30/20 07:24	12/31/20 00:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B01 (0-1)

Lab Sample ID: 500-192915-1

Date Collected: 12/22/20 14:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
Phenanthrene	0.18		0.039	0.0055	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
Pyrene	0.48		0.039	0.0078	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	12/30/20 07:24	12/31/20 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		43 - 145				12/30/20 07:24	12/31/20 00:27	1
2-Fluorophenol	95		31 - 166				12/30/20 07:24	12/31/20 00:27	1
Nitrobenzene-d5	76		37 - 147				12/30/20 07:24	12/31/20 00:27	1
Phenol-d5	79		30 - 153				12/30/20 07:24	12/31/20 00:27	1
Terphenyl-d14	105		42 - 157				12/30/20 07:24	12/31/20 00:27	1
2,4,6-Tribromophenol	67		31 - 143				12/30/20 07:24	12/31/20 00:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.1	0.22	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Arsenic	6.8		0.56	0.19	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Barium	81		0.56	0.063	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Beryllium	0.62		0.22	0.052	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Cadmium	0.15		0.11	0.020	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Chromium	17		0.56	0.28	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Cobalt	9.3		0.28	0.073	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Copper	21		0.56	0.16	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Iron	17000		11	5.8	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Lead	41		1.4	0.64	mg/Kg	☼	12/30/20 06:38	01/05/21 19:52	5
Magnesium	25000		5.6	2.8	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Calcium	58000	B	56	9.4	mg/Kg	☼	12/30/20 06:38	01/05/21 19:52	5
Manganese	400		0.56	0.081	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Nickel	22		0.56	0.16	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Selenium	0.35	J	0.56	0.33	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Silver	<0.072		0.28	0.072	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Vanadium	28		0.28	0.066	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Zinc	88		1.1	0.49	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Potassium	2300		28	9.9	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1
Sodium	130		56	8.2	mg/Kg	☼	12/30/20 06:38	01/04/21 17:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:33	1
Barium	0.47	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:12	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B01 (0-1)

Lab Sample ID: 500-192915-1

Date Collected: 12/22/20 14:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:12	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:33	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:33	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:33	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:02	1
Magnesium	100		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:12	1
Manganese	0.026		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:12	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:33	1
Potassium	2.7		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:12	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:02	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:33	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:33	1
Zinc	0.037	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0065	mg/Kg	⊛	12/29/20 12:50	12/30/20 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.32		0.28	0.14	mg/Kg	⊛	12/28/20 13:48	12/28/20 15:42	1
pH	8.2		0.2	0.2	SU			12/23/20 17:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B02 (0-1)

Lab Sample ID: 500-192915-2

Date Collected: 12/22/20 14:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.032		0.019	0.0084	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
2-Butanone (MEK)	0.0087		0.0048	0.0021	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Chloroethane	<0.0014		0.0048	0.0014	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Chloroform	<0.00067		0.0019	0.00067	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
1,2-Dichloropropene	<0.00050		0.0019	0.00050	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
1,3-Dichloropropene, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Ethylbenzene	<0.00092		0.0019	0.00092	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Vinyl chloride	<0.00085		0.0019	0.00085	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	12/22/20 18:05	12/30/20 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	12/22/20 18:05	12/30/20 15:33	1
Dibromofluoromethane	100		75 - 126	12/22/20 18:05	12/30/20 15:33	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	12/22/20 18:05	12/30/20 15:33	1
Toluene-d8 (Surr)	93		75 - 124	12/22/20 18:05	12/30/20 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.033	J	0.041	0.0074	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
Anthracene	0.087		0.041	0.0068	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
Benzo[a]anthracene	0.33		0.041	0.0055	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B02 (0-1)

Lab Sample ID: 500-192915-2

Date Collected: 12/22/20 14:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.46		0.041	0.0079	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Benzo[b]fluoranthene	0.74		0.041	0.0088	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Benzo[g,h,i]perylene	0.17		0.041	0.013	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Benzo[k]fluoranthene	0.23		0.041	0.012	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Bis(2-chloroethyl)ether	<0.061		0.21	0.061	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Carbazole	<0.10		0.21	0.10	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Chrysene	0.37		0.041	0.011	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Dibenz(a,h)anthracene	0.047		0.041	0.0079	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
3,3'-Dichlorobenzidine	<0.057		0.21	0.057	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2,4-Dichlorophenol	<0.097		0.41	0.097	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Diethyl phthalate	<0.069		0.21	0.069	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Di-n-butyl phthalate	<0.062		0.21	0.062	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2,4-Dinitrophenol	<0.72		0.83	0.72	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Fluoranthene	0.99		0.041	0.0076	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Fluorene	0.032 J		0.041	0.0058	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Hexachlorobenzene	<0.0095		0.083	0.0095	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Hexachlorobutadiene	<0.064		0.21	0.064	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Indeno[1,2,3-cd]pyrene	0.16		0.041	0.011	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Isophorone	<0.046		0.21	0.046	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2-Methylnaphthalene	<0.0075		0.083	0.0075	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
3 & 4 Methylphenol	<0.068		0.21	0.068	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1
2-Nitrophenol	<0.097		0.41	0.097	mg/Kg	✱	12/30/20 07:24	12/30/20 23:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B02 (0-1)

Lab Sample ID: 500-192915-2

Date Collected: 12/22/20 14:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
N-Nitrosodi-n-propylamine	<0.050		0.083	0.050	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
Phenanthrene	0.48		0.041	0.0057	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
Phenol	<0.091		0.21	0.091	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
Pyrene	0.86		0.041	0.0081	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	12/30/20 07:24	12/30/20 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		43 - 145				12/30/20 07:24	12/30/20 23:58	1
2-Fluorophenol	77		31 - 166				12/30/20 07:24	12/30/20 23:58	1
Nitrobenzene-d5	68		37 - 147				12/30/20 07:24	12/30/20 23:58	1
Phenol-d5	65		30 - 153				12/30/20 07:24	12/30/20 23:58	1
Terphenyl-d14	92		42 - 157				12/30/20 07:24	12/30/20 23:58	1
2,4,6-Tribromophenol	69		31 - 143				12/30/20 07:24	12/30/20 23:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.24	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Arsenic	7.5		0.61	0.21	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Barium	98		0.61	0.070	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Beryllium	0.75		0.25	0.057	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Cadmium	0.17		0.12	0.022	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Chromium	21		0.61	0.30	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Cobalt	11		0.31	0.080	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Copper	25		0.61	0.17	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Iron	20000		12	6.4	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Lead	67		0.31	0.14	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Magnesium	20000		6.1	3.0	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Calcium	33000	B	12	2.1	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Manganese	380		0.61	0.089	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Nickel	28		0.61	0.18	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Selenium	<0.36		0.61	0.36	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Silver	<0.079		0.31	0.079	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Thallium	<0.31		0.61	0.31	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Vanadium	31		0.31	0.072	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Zinc	97		1.2	0.54	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Potassium	2600		31	11	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1
Sodium	580		61	9.1	mg/Kg	☼	12/30/20 06:38	01/04/21 17:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:37	1
Barium	0.57		0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:16	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B02 (0-1)

Lab Sample ID: 500-192915-2

Date Collected: 12/22/20 14:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:16	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:37	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:37	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:37	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:05	1
Magnesium	100		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:16	1
Manganese	1.4		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:16	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:37	1
Potassium	3.4		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:16	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:05	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:37	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:37	1
Zinc	0.048	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.58		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.021	0.0069	mg/Kg	✱	12/29/20 12:50	12/30/20 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.25	J	0.29	0.14	mg/Kg	✱	12/28/20 13:48	12/28/20 15:47	1
pH	8.5		0.2	0.2	SU			12/23/20 17:26	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192915-1	3972-COV-10-B01 (0-1)	95	102	91	92
500-192915-2	3972-COV-10-B02 (0-1)	91	100	90	93
LCS 500-579020/4	Lab Control Sample	85	90	77	94
LCS 500-579020/5	Lab Control Sample Dup	86	90	77	96
MB 500-579020/7	Method Blank	96	92	80	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192915-1	3972-COV-10-B01 (0-1)	77	95	76	79	105	67
500-192915-1 MS	3972-COV-10-B01 (0-1)	76	91	71	71	113	72
500-192915-1 MSD	3972-COV-10-B01 (0-1)	89	99	77	81	113	93
500-192915-2	3972-COV-10-B02 (0-1)	70	77	68	65	92	69
LCS 500-579030/2-A	Lab Control Sample	93	102	91	91	85	112
MB 500-579030/1-A	Method Blank	85	105	89	85	87	97

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: MB 500-579020/7
Matrix: Solid
Analysis Batch: 579020

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/30/20 10:02	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/30/20 10:02	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/30/20 10:02	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/30/20 10:02	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/30/20 10:02	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/30/20 10:02	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/30/20 10:02	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/30/20 10:02	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/30/20 10:02	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/30/20 10:02	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/30/20 10:02	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/30/20 10:02	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/30/20 10:02	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/30/20 10:02	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/30/20 10:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		75 - 131		12/30/20 10:02	1
Dibromofluoromethane	92		75 - 126		12/30/20 10:02	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		12/30/20 10:02	1
Toluene-d8 (Surr)	92		75 - 124		12/30/20 10:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: LCS 500-579020/4
Matrix: Solid
Analysis Batch: 579020

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	0.0504		mg/Kg		101	40 - 150
Benzene	0.0500	0.0511		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0457		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0465		mg/Kg		93	68 - 136
Bromomethane	0.0500	0.0432		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0401		mg/Kg		80	47 - 138
Carbon disulfide	0.0500	0.0547		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0500	0.0545		mg/Kg		109	75 - 125
Chlorobenzene	0.0500	0.0514		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0562		mg/Kg		112	75 - 125
Chloroform	0.0500	0.0482		mg/Kg		96	57 - 135
Chloromethane	0.0500	0.0526		mg/Kg		105	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0408		mg/Kg		82	70 - 125
Dibromochloromethane	0.0500	0.0494		mg/Kg		99	69 - 125
1,1-Dichloroethane	0.0500	0.0575		mg/Kg		115	70 - 125
1,2-Dichloroethane	0.0500	0.0435		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0542		mg/Kg		108	70 - 120
1,2-Dichloropropane	0.0500	0.0526		mg/Kg		105	70 - 125
Ethylbenzene	0.0500	0.0540		mg/Kg		108	61 - 136
2-Hexanone	0.0500	0.0377		mg/Kg		75	48 - 146
Methylene Chloride	0.0500	0.0479		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0367		mg/Kg		73	50 - 148
Methyl tert-butyl ether	0.0500	0.0389		mg/Kg		78	50 - 140
Styrene	0.0500	0.0516		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0404		mg/Kg		81	70 - 122
Tetrachloroethene	0.0500	0.0534		mg/Kg		107	70 - 124
Toluene	0.0500	0.0523		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0541		mg/Kg		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0384		mg/Kg		77	70 - 125
1,1,1-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 128
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125
Trichloroethene	0.0500	0.0548		mg/Kg		110	70 - 125
Vinyl acetate	0.0500	0.0334		mg/Kg		67	40 - 153
Vinyl chloride	0.0500	0.0569		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0999		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	85		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: LCSD 500-579020/5
Matrix: Solid
Analysis Batch: 579020

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	0.0467		mg/Kg		93	40 - 150	8	30
Benzene	0.0500	0.0564		mg/Kg		113	70 - 125	10	30
Bromodichloromethane	0.0500	0.0505		mg/Kg		101	67 - 129	10	30
Bromoform	0.0500	0.0524		mg/Kg		105	68 - 136	12	30
Bromomethane	0.0500	0.0465		mg/Kg		93	70 - 130	8	30
2-Butanone (MEK)	0.0500	0.0387		mg/Kg		77	47 - 138	4	30
Carbon disulfide	0.0500	0.0594		mg/Kg		119	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0593		mg/Kg		119	75 - 125	8	30
Chlorobenzene	0.0500	0.0574		mg/Kg		115	50 - 150	11	30
Chloroethane	0.0500	0.0595		mg/Kg		119	75 - 125	6	30
Chloroform	0.0500	0.0527		mg/Kg		105	57 - 135	9	30
Chloromethane	0.0500	0.0556		mg/Kg		111	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 125	9	30
cis-1,3-Dichloropropene	0.0500	0.0463		mg/Kg		93	70 - 125	13	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0622		mg/Kg		124	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130	9	30
1,1-Dichloroethene	0.0500	0.0583		mg/Kg		117	70 - 120	7	30
1,2-Dichloropropane	0.0500	0.0580		mg/Kg		116	70 - 125	10	30
Ethylbenzene	0.0500	0.0600		mg/Kg		120	61 - 136	11	30
2-Hexanone	0.0500	0.0413		mg/Kg		83	48 - 146	9	30
Methylene Chloride	0.0500	0.0520		mg/Kg		104	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0409		mg/Kg		82	50 - 148	11	30
Methyl tert-butyl ether	0.0500	0.0434		mg/Kg		87	50 - 140	11	30
Styrene	0.0500	0.0578		mg/Kg		116	70 - 125	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0457		mg/Kg		91	70 - 122	12	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	11	30
Toluene	0.0500	0.0582		mg/Kg		116	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0592		mg/Kg		118	70 - 125	9	30
trans-1,3-Dichloropropene	0.0500	0.0431		mg/Kg		86	70 - 125	12	30
1,1,1-Trichloroethane	0.0500	0.0559		mg/Kg		112	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0502		mg/Kg		100	70 - 125	13	30
Trichloroethene	0.0500	0.0598		mg/Kg		120	70 - 125	9	30
Vinyl acetate	0.0500	0.0333		mg/Kg		67	40 - 153	0	30
Vinyl chloride	0.0500	0.0613		mg/Kg		123	70 - 125	7	30
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147	11	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: MB 500-579030/1-A

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 579030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: MB 500-579030/1-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	12/30/20 07:24	12/30/20 19:14	1
2-Fluorophenol	105		31 - 166	12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene-d5	89		37 - 147	12/30/20 07:24	12/30/20 19:14	1
Phenol-d5	85		30 - 153	12/30/20 07:24	12/30/20 19:14	1
Terphenyl-d14	87		42 - 157	12/30/20 07:24	12/30/20 19:14	1
2,4,6-Tribromophenol	97		31 - 143	12/30/20 07:24	12/30/20 19:14	1

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124
Acenaphthylene	1.33	1.22		mg/Kg		91	68 - 120
Anthracene	1.33	1.12		mg/Kg		84	70 - 114
Benzo[a]anthracene	1.33	1.08		mg/Kg		81	67 - 122
Benzo[a]pyrene	1.33	1.26		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	69 - 129
Benzo[g,h,i]perylene	1.33	1.41		mg/Kg		106	72 - 131
Benzo[k]fluoranthene	1.33	1.25		mg/Kg		94	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.21		mg/Kg		90	60 - 112
Bis(2-chloroethyl)ether	1.33	1.19		mg/Kg		89	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.11		mg/Kg		83	72 - 131
4-Bromophenyl phenyl ether	1.33	1.23		mg/Kg		92	68 - 118
Butyl benzyl phthalate	1.33	1.08		mg/Kg		81	71 - 129
Carbazole	1.33	1.29		mg/Kg		97	65 - 142
4-Chloroaniline	1.33	1.10		mg/Kg		82	30 - 150
4-Chloro-3-methylphenol	1.33	1.35		mg/Kg		101	65 - 122
2-Chloronaphthalene	1.33	1.20		mg/Kg		90	69 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: LCS 500-579030/2-A

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.24		mg/Kg		93	66 - 115
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	65 - 124
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.925		mg/Kg		69	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.06		mg/Kg		79	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		94	69 - 116
Di-n-butyl phthalate	1.33	1.14		mg/Kg		86	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.24		mg/Kg		47	10 - 110
2,4-Dinitrophenol	2.67	0.795		mg/Kg		30	10 - 100
2,4-Dinitrotoluene	1.33	1.29		mg/Kg		97	69 - 124
2,6-Dinitrotoluene	1.33	1.28		mg/Kg		96	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.18		mg/Kg		88	62 - 120
Fluorene	1.33	1.21		mg/Kg		90	62 - 120
Hexachlorobenzene	1.33	1.39		mg/Kg		104	63 - 124
Hexachlorobutadiene	1.33	1.43		mg/Kg		107	56 - 120
Hexachlorocyclopentadiene	1.33	0.506	J	mg/Kg		38	10 - 133
Hexachloroethane	1.33	1.21		mg/Kg		91	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.38		mg/Kg		104	68 - 130
Isophorone	1.33	1.23		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.18		mg/Kg		89	69 - 112
2-Methylphenol	1.33	1.44		mg/Kg		108	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		95	57 - 120
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
3-Nitroaniline	1.33	1.02		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.08		mg/Kg		81	60 - 160
Nitrobenzene	1.33	1.24		mg/Kg		93	60 - 116
2-Nitrophenol	1.33	1.18		mg/Kg		88	60 - 120
4-Nitrophenol	2.67	2.95		mg/Kg		110	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	56 - 118
N-Nitrosodiphenylamine	1.33	1.14		mg/Kg		85	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.07		mg/Kg		80	40 - 124
Pentachlorophenol	2.67	1.69		mg/Kg		63	13 - 112
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Phenol	1.33	1.17		mg/Kg		88	56 - 122
Pyrene	1.33	1.06		mg/Kg		80	61 - 128
1,2,4-Trichlorobenzene	1.33	1.27		mg/Kg		96	66 - 117
2,4,5-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		94	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	93		43 - 145
2-Fluorophenol	102		31 - 166
Nitrobenzene-d5	91		37 - 147
Phenol-d5	91		30 - 153
Terphenyl-d14	85		42 - 157
2,4,6-Tribromophenol	112		31 - 143

Lab Sample ID: 500-192915-1 MS
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: 3972-COV-10-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 579030

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	<0.0071		1.62	1.32		mg/Kg	☼	82	65 - 124
Acenaphthylene	<0.0052		1.62	1.32		mg/Kg	☼	82	68 - 120
Anthracene	0.032	J	1.62	1.29		mg/Kg	☼	78	70 - 114
Benzo[a]anthracene	0.20		1.62	1.40		mg/Kg	☼	74	67 - 122
Benzo[a]pyrene	0.32		1.62	1.72		mg/Kg	☼	87	65 - 133
Benzo[b]fluoranthene	0.54		1.62	2.13		mg/Kg	☼	98	69 - 129
Benzo[g,h,i]perylene	0.16	F1	1.62	0.887	F1	mg/Kg	☼	45	72 - 131
Benzo[k]fluoranthene	0.23		1.62	2.06		mg/Kg	☼	113	68 - 127
Bis(2-chloroethoxy)methane	<0.040		1.62	1.31		mg/Kg	☼	81	60 - 112
Bis(2-chloroethyl)ether	<0.059		1.62	1.24		mg/Kg	☼	76	55 - 111
Bis(2-ethylhexyl) phthalate	0.084	J	1.62	1.78		mg/Kg	☼	105	72 - 131
4-Bromophenyl phenyl ether	<0.052		1.62	1.32		mg/Kg	☼	82	68 - 118
Butyl benzyl phthalate	<0.075		1.62	1.78		mg/Kg	☼	110	71 - 129
Carbazole	<0.098		1.62	1.46		mg/Kg	☼	91	65 - 142
4-Chloroaniline	<0.18		1.62	0.960		mg/Kg	☼	59	30 - 150
4-Chloro-3-methylphenol	<0.13		1.62	1.54		mg/Kg	☼	95	65 - 122
2-Chloronaphthalene	<0.043		1.62	1.29		mg/Kg	☼	80	69 - 114
2-Chlorophenol	<0.067		1.62	1.35		mg/Kg	☼	83	64 - 110
4-Chlorophenyl phenyl ether	<0.046		1.62	1.35		mg/Kg	☼	83	62 - 119
Chrysene	0.28		1.62	1.46		mg/Kg	☼	73	63 - 120
Dibenz(a,h)anthracene	0.036	J F1	1.62	0.882	F1	mg/Kg	☼	52	64 - 131
Dibenzofuran	<0.046		1.62	1.33		mg/Kg	☼	82	66 - 115
1,2-Dichlorobenzene	<0.047		1.62	1.12		mg/Kg	☼	69	62 - 110
1,3-Dichlorobenzene	<0.044		1.62	1.17		mg/Kg	☼	72	60 - 110
1,4-Dichlorobenzene	<0.050		1.62	1.15		mg/Kg	☼	71	61 - 110
3,3'-Dichlorobenzidine	<0.055	F1	1.62	0.445	F1	mg/Kg	☼	28	35 - 128
2,4-Dichlorophenol	<0.093		1.62	1.37		mg/Kg	☼	84	58 - 120
Diethyl phthalate	<0.067		1.62	1.47		mg/Kg	☼	91	58 - 120
2,4-Dimethylphenol	<0.15		1.62	1.24		mg/Kg	☼	77	60 - 110
Dimethyl phthalate	<0.051		1.62	1.38		mg/Kg	☼	85	69 - 116
Di-n-butyl phthalate	<0.060		1.62	1.35		mg/Kg	☼	84	65 - 120
4,6-Dinitro-2-methylphenol	<0.32	F1	3.23	0.351	J	mg/Kg	☼	11	10 - 110
2,4-Dinitrophenol	<0.69	F1	3.23	<0.71	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.062		1.62	1.37		mg/Kg	☼	85	69 - 124
2,6-Dinitrotoluene	<0.077		1.62	1.36		mg/Kg	☼	84	70 - 123
Di-n-octyl phthalate	<0.064	F1	1.62	0.973	F1	mg/Kg	☼	60	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: 500-192915-1 MS
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: 3972-COV-10-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 579030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	0.56		1.62	1.69		mg/Kg	✱	70	62 - 120
Fluorene	0.0066	J	1.62	1.37		mg/Kg	✱	84	62 - 120
Hexachlorobenzene	<0.0091		1.62	1.51		mg/Kg	✱	93	63 - 124
Hexachlorobutadiene	<0.062		1.62	1.48		mg/Kg	✱	91	56 - 120
Hexachlorocyclopentadiene	<0.23	F1	1.62	<0.23	F1	mg/Kg	✱	0	10 - 133
Hexachloroethane	<0.060	F1	1.62	0.937	F1	mg/Kg	✱	58	60 - 114
Indeno[1,2,3-cd]pyrene	0.14	F1	1.62	0.951	F1	mg/Kg	✱	50	68 - 130
Isophorone	<0.044		1.62	1.28		mg/Kg	✱	79	55 - 110
2-Methylnaphthalene	<0.0072		1.62	1.33		mg/Kg	✱	83	69 - 112
2-Methylphenol	<0.063		1.62	1.58		mg/Kg	✱	97	60 - 120
3 & 4 Methylphenol	<0.066		1.62	1.28		mg/Kg	✱	79	57 - 120
Naphthalene	<0.0060		1.62	1.28		mg/Kg	✱	79	63 - 110
2-Nitroaniline	<0.053		1.62	1.32		mg/Kg	✱	81	57 - 124
3-Nitroaniline	<0.12		1.62	1.08		mg/Kg	✱	67	40 - 122
4-Nitroaniline	<0.16		1.62	1.26		mg/Kg	✱	78	60 - 160
Nitrobenzene	<0.0098		1.62	1.28		mg/Kg	✱	79	60 - 116
2-Nitrophenol	<0.093		1.62	1.29		mg/Kg	✱	80	60 - 120
4-Nitrophenol	<0.37		3.23	3.49		mg/Kg	✱	108	30 - 122
N-Nitrosodi-n-propylamine	<0.048		1.62	1.18		mg/Kg	✱	73	56 - 118
N-Nitrosodiphenylamine	<0.046		1.62	1.28		mg/Kg	✱	79	65 - 112
2,2'-oxybis[1-chloropropane]	<0.046		1.62	0.975		mg/Kg	✱	60	40 - 124
Pentachlorophenol	<0.63		3.23	1.16		mg/Kg	✱	36	13 - 112
Phenanthrene	0.18		1.62	1.43		mg/Kg	✱	77	62 - 120
Phenol	<0.087		1.62	1.36		mg/Kg	✱	84	56 - 122
Pyrene	0.48		1.62	2.17		mg/Kg	✱	104	61 - 128
1,2,4-Trichlorobenzene	<0.042		1.62	1.33		mg/Kg	✱	82	66 - 117
2,4,5-Trichlorophenol	<0.090		1.62	1.39		mg/Kg	✱	86	50 - 120
2,4,6-Trichlorophenol	<0.13		1.62	1.13		mg/Kg	✱	70	57 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorobiphenyl	76		43 - 145
2-Fluorophenol	91		31 - 166
Nitrobenzene-d5	71		37 - 147
Phenol-d5	71		30 - 153
Terphenyl-d14	113		42 - 157
2,4,6-Tribromophenol	72		31 - 143

Lab Sample ID: 500-192915-1 MSD
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: 3972-COV-10-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 579030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<0.0071		1.61	1.34		mg/Kg	✱	83	65 - 124	1	30
Acenaphthylene	<0.0052		1.61	1.29		mg/Kg	✱	81	68 - 120	2	30
Anthracene	0.032	J	1.61	1.27		mg/Kg	✱	77	70 - 114	1	30
Benzo[a]anthracene	0.20		1.61	1.34		mg/Kg	✱	71	67 - 122	4	30
Benzo[a]pyrene	0.32		1.61	1.55		mg/Kg	✱	77	65 - 133	10	30
Benzo[b]fluoranthene	0.54		1.61	2.02		mg/Kg	✱	92	69 - 129	5	30

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: 500-192915-1 MSD

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: 3972-COV-10-B01 (0-1)

Prep Type: Total/NA

Prep Batch: 579030

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzo[g,h,i]perylene	0.16	F1	1.61	0.830	F1	mg/Kg	*	42	72 - 131	7	30
Benzo[k]fluoranthene	0.23		1.61	1.84		mg/Kg	*	101	68 - 127	11	30
Bis(2-chloroethoxy)methane	<0.040		1.61	1.27		mg/Kg	*	79	60 - 112	3	30
Bis(2-chloroethyl)ether	<0.059		1.61	1.27		mg/Kg	*	79	55 - 111	3	30
Bis(2-ethylhexyl) phthalate	0.084	J	1.61	1.69		mg/Kg	*	100	72 - 131	5	30
4-Bromophenyl phenyl ether	<0.052		1.61	1.32		mg/Kg	*	82	68 - 118	0	30
Butyl benzyl phthalate	<0.075		1.61	1.80		mg/Kg	*	112	71 - 129	1	30
Carbazole	<0.098		1.61	1.45		mg/Kg	*	90	65 - 142	1	30
4-Chloroaniline	<0.18		1.61	0.988		mg/Kg	*	61	30 - 150	3	30
4-Chloro-3-methylphenol	<0.13		1.61	1.46		mg/Kg	*	91	65 - 122	5	30
2-Chloronaphthalene	<0.043		1.61	1.38		mg/Kg	*	86	69 - 114	7	30
2-Chlorophenol	<0.067		1.61	1.36		mg/Kg	*	85	64 - 110	1	30
4-Chlorophenyl phenyl ether	<0.046		1.61	1.37		mg/Kg	*	85	62 - 119	1	30
Chrysene	0.28		1.61	1.40		mg/Kg	*	70	63 - 120	4	30
Dibenz(a,h)anthracene	0.036	J F1	1.61	0.785	F1	mg/Kg	*	47	64 - 131	12	30
Dibenzofuran	<0.046		1.61	1.35		mg/Kg	*	84	66 - 115	1	30
1,2-Dichlorobenzene	<0.047		1.61	1.20		mg/Kg	*	75	62 - 110	7	30
1,3-Dichlorobenzene	<0.044		1.61	1.10		mg/Kg	*	69	60 - 110	6	30
1,4-Dichlorobenzene	<0.050		1.61	1.09		mg/Kg	*	68	61 - 110	5	30
3,3'-Dichlorobenzidine	<0.055	F1	1.61	0.428	F1	mg/Kg	*	27	35 - 128	4	30
2,4-Dichlorophenol	<0.093		1.61	1.36		mg/Kg	*	85	58 - 120	1	30
Diethyl phthalate	<0.067		1.61	1.44		mg/Kg	*	90	58 - 120	2	30
2,4-Dimethylphenol	<0.15		1.61	1.19		mg/Kg	*	74	60 - 110	4	30
Dimethyl phthalate	<0.051		1.61	1.46		mg/Kg	*	91	69 - 116	6	30
Di-n-butyl phthalate	<0.060		1.61	1.31		mg/Kg	*	81	65 - 120	3	30
4,6-Dinitro-2-methylphenol	<0.32	F1	3.21	<0.32	F1	mg/Kg	*	0	10 - 110	NC	30
2,4-Dinitrophenol	<0.69	F1	3.21	<0.71	F1	mg/Kg	*	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.062		1.61	1.33		mg/Kg	*	82	69 - 124	3	30
2,6-Dinitrotoluene	<0.077		1.61	1.35		mg/Kg	*	84	70 - 123	1	30
Di-n-octyl phthalate	<0.064	F1	1.61	0.945	F1	mg/Kg	*	59	68 - 134	3	30
Fluoranthene	0.56		1.61	1.67		mg/Kg	*	69	62 - 120	1	30
Fluorene	0.0066	J	1.61	1.32		mg/Kg	*	82	62 - 120	3	30
Hexachlorobenzene	<0.0091		1.61	1.47		mg/Kg	*	91	63 - 124	3	30
Hexachlorobutadiene	<0.062		1.61	1.40		mg/Kg	*	87	56 - 120	5	30
Hexachlorocyclopentadiene	<0.23	F1	1.61	<0.23	F1	mg/Kg	*	0	10 - 133	NC	30
Hexachloroethane	<0.060	F1	1.61	0.976		mg/Kg	*	61	60 - 114	4	30
Indeno[1,2,3-cd]pyrene	0.14	F1	1.61	0.863	F1	mg/Kg	*	45	68 - 130	10	30
Isophorone	<0.044		1.61	1.25		mg/Kg	*	78	55 - 110	2	30
2-Methylnaphthalene	<0.0072		1.61	1.32		mg/Kg	*	82	69 - 112	1	30
2-Methylphenol	<0.063		1.61	1.69		mg/Kg	*	105	60 - 120	7	30
3 & 4 Methylphenol	<0.066		1.61	1.51		mg/Kg	*	94	57 - 120	16	30
Naphthalene	<0.0060		1.61	1.28		mg/Kg	*	79	63 - 110	0	30
2-Nitroaniline	<0.053		1.61	1.41		mg/Kg	*	88	57 - 124	6	30
3-Nitroaniline	<0.12		1.61	1.10		mg/Kg	*	68	40 - 122	1	30
4-Nitroaniline	<0.16		1.61	1.20		mg/Kg	*	75	60 - 160	5	30
Nitrobenzene	<0.0098		1.61	1.29		mg/Kg	*	80	60 - 116	1	30
2-Nitrophenol	<0.093		1.61	1.24		mg/Kg	*	77	60 - 120	4	30
4-Nitrophenol	<0.37		3.21	3.36		mg/Kg	*	104	30 - 122	4	30
N-Nitrosodi-n-propylamine	<0.048		1.61	1.34		mg/Kg	*	84	56 - 118	13	30

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: 500-192915-1 MSD

Client Sample ID: 3972-COV-10-B01 (0-1)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 579167

Prep Batch: 579030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiphenylamine	<0.046		1.61	1.18		mg/Kg	☼	73	65 - 112	9	30
2,2'-oxybis[1-chloropropane]	<0.046		1.61	1.12		mg/Kg	☼	70	40 - 124	14	30
Pentachlorophenol	<0.63		3.21	1.14		mg/Kg	☼	35	13 - 112	1	30
Phenanthrene	0.18		1.61	1.39		mg/Kg	☼	75	62 - 120	3	30
Phenol	<0.087		1.61	1.48		mg/Kg	☼	92	56 - 122	8	30
Pyrene	0.48		1.61	2.16		mg/Kg	☼	105	61 - 128	0	30
1,2,4-Trichlorobenzene	<0.042		1.61	1.27		mg/Kg	☼	79	66 - 117	4	30
2,4,5-Trichlorophenol	<0.090		1.61	1.59		mg/Kg	☼	99	50 - 120	14	30
2,4,6-Trichlorophenol	<0.13		1.61	1.32		mg/Kg	☼	82	57 - 120	16	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	89		43 - 145
2-Fluorophenol	99		31 - 166
Nitrobenzene-d5	77		37 - 147
Phenol-d5	81		30 - 153
Terphenyl-d14	113		42 - 157
2,4,6-Tribromophenol	93		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-579019/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 579576

Prep Batch: 579019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.39		2.0	0.39	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Barium	<0.11		1.0	0.11	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Copper	<0.28		1.0	0.28	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Iron	<10		20	10	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Lead	<0.23		0.50	0.23	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Magnesium	<5.0		10	5.0	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Calcium	12.9	J	20	3.4	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Silver	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Potassium	<18		50	18	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Sodium	<15		100	15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: LCS 500-579019/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579019
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.3		mg/Kg		89	80 - 120
Arsenic	10.0	9.74		mg/Kg		97	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.95		mg/Kg		99	80 - 120
Cadmium	5.00	4.75		mg/Kg		95	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Cobalt	50.0	50.7		mg/Kg		101	80 - 120
Copper	25.0	24.6		mg/Kg		99	80 - 120
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.83		mg/Kg		98	80 - 120
Magnesium	1000	994		mg/Kg		99	80 - 120
Calcium	1000	1030		mg/Kg		103	80 - 120
Manganese	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	50.0		mg/Kg		100	80 - 120
Selenium	10.0	8.85		mg/Kg		89	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Thallium	10.0	9.95		mg/Kg		100	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	49.6		mg/Kg		99	80 - 120
Potassium	1000	965		mg/Kg		97	80 - 120
Sodium	1000	984		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Nickel	0.500	0.541		mg/L		108	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Zinc	0.500	0.606	*+	mg/L		121	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120

Lab Sample ID: LCS 500-579535/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.491		mg/L		98	80 - 120

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.050		0.50	0.050	mg/L		01/04/21 17:53	01/05/21 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/05/21 23:59	1
Magnesium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Calcium	<0.50		5.0	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/05/21 23:59	1
Potassium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:27	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Zinc	0.0239	J	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:27	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 17:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 17:55	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

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

Lab Sample ID: LB 500-579349/1-B
 Matrix: Solid
 Analysis Batch: 579797

Client Sample ID: Method Blank
 Prep Type: SPLP East
 Prep Batch: 579535

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 01:52	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579532/2-A
 Matrix: Solid
 Analysis Batch: 579700

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.492		mg/L		98	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LB 500-579346/1-C
 Matrix: Solid
 Analysis Batch: 579700

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:39	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579477/12-A
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 579477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:01	1

Lab Sample ID: LCS 500-579477/14-A
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-579346/1-B
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579477

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:03	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578888/12-A
 Matrix: Solid
 Analysis Batch: 579052

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/29/20 12:50	12/30/20 06:57	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: LCS 500-578888/13-A
Matrix: Solid
Analysis Batch: 579052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578888
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.174		mg/Kg		104	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578679/1-A
Matrix: Solid
Analysis Batch: 578735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/28/20 13:48	12/28/20 15:06	1

Lab Sample ID: HLCS 500-578679/2-A
Matrix: Solid
Analysis Batch: 578735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578679
 %Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.7		mg/Kg		98	90 - 110

Lab Sample ID: LCS 500-578679/3-A
Matrix: Solid
Analysis Batch: 578735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578679
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.51		mg/Kg		105	85 - 115

Lab Sample ID: LLCS 500-578679/4-A
Matrix: Solid
Analysis Batch: 578735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578679
 %Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.26		mg/Kg		105	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

GC/MS VOA

Prep Batch: 578787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	5035	
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	5035	

Analysis Batch: 579020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	8260B	578787
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	8260B	578787
MB 500-579020/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-579020/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-579020/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 579030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	3541	
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	3541	
MB 500-579030/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-192915-1 MS	3972-COV-10-B01 (0-1)	Total/NA	Solid	3541	
500-192915-1 MSD	3972-COV-10-B01 (0-1)	Total/NA	Solid	3541	

Analysis Batch: 579167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	8270D	579030
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	8270D	579030
MB 500-579030/1-A	Method Blank	Total/NA	Solid	8270D	579030
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	8270D	579030
500-192915-1 MS	3972-COV-10-B01 (0-1)	Total/NA	Solid	8270D	579030
500-192915-1 MSD	3972-COV-10-B01 (0-1)	Total/NA	Solid	8270D	579030

Metals

Prep Batch: 578888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	7471B	
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	7471B	
MB 500-578888/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578888/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 579019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	3050B	
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	3050B	
MB 500-579019/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 579052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	7471B	578888
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	7471B	578888
MB 500-578888/12-A	Method Blank	Total/NA	Solid	7471B	578888

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Metals (Continued)

Analysis Batch: 579052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-578888/13-A	Lab Control Sample	Total/NA	Solid	7471B	578888

Leach Batch: 579346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	TCLP	Solid	1311	
500-192915-2	3972-COV-10-B02 (0-1)	TCLP	Solid	1311	
LB 500-579346/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579346/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 579349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-2	3972-COV-10-B02 (0-1)	SPLP East	Solid	1312	
LB 500-579349/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 579477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	TCLP	Solid	7470A	579346
500-192915-2	3972-COV-10-B02 (0-1)	TCLP	Solid	7470A	579346
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579346
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	TCLP	Solid	3010A	579346
500-192915-2	3972-COV-10-B02 (0-1)	TCLP	Solid	3010A	579346
LB 500-579346/1-C	Method Blank	TCLP	Solid	3010A	579346
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 579535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-2	3972-COV-10-B02 (0-1)	SPLP East	Solid	3010A	579349
LB 500-579349/1-B	Method Blank	SPLP East	Solid	3010A	579349
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	6010B	579019
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	6010B	579019
MB 500-579019/1-A	Method Blank	Total/NA	Solid	6010B	579019
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	6010B	579019

Analysis Batch: 579681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	TCLP	Solid	7470A	579477
500-192915-2	3972-COV-10-B02 (0-1)	TCLP	Solid	7470A	579477
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579477
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	579477
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	579477

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Metals

Analysis Batch: 579700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	TCLP	Solid	6020A	579532
500-192915-2	3972-COV-10-B02 (0-1)	TCLP	Solid	6020A	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6020A	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6020A	579532

Analysis Batch: 579796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	6010B	579019

Analysis Batch: 579797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	TCLP	Solid	6010B	579532
500-192915-2	3972-COV-10-B02 (0-1)	SPLP East	Solid	6010B	579535
500-192915-2	3972-COV-10-B02 (0-1)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LB 500-579349/1-B	Method Blank	SPLP East	Solid	6010B	579535
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	6010B	579535

Analysis Batch: 579995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	TCLP	Solid	6010B	579532
500-192915-2	3972-COV-10-B02 (0-1)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Analysis Batch: 580182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	TCLP	Solid	6010B	579532
500-192915-2	3972-COV-10-B02 (0-1)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

General Chemistry

Analysis Batch: 578304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	Moisture	
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	9045D	
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	9010C	
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	9010C	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

General Chemistry (Continued)

Prep Batch: 578679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-578679/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578679/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578679/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578679/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192915-1	3972-COV-10-B01 (0-1)	Total/NA	Solid	9012B	578679
500-192915-2	3972-COV-10-B02 (0-1)	Total/NA	Solid	9012B	578679
MB 500-578679/1-A	Method Blank	Total/NA	Solid	9012B	578679
HLCS 500-578679/2-A	Lab Control Sample	Total/NA	Solid	9012B	578679
LCS 500-578679/3-A	Lab Control Sample	Total/NA	Solid	9012B	578679
LLCS 500-578679/4-A	Lab Control Sample	Total/NA	Solid	9012B	578679

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B01 (0-1)

Lab Sample ID: 500-192915-1

Date Collected: 12/22/20 14:30

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:12	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 21:33	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:02	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 12:43	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:07	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 17:24	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578304	12/23/20 11:12	LWN	TAL CHI

Client Sample ID: 3972-COV-10-B01 (0-1)

Lab Sample ID: 500-192915-1

Date Collected: 12/22/20 14:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578787	12/22/20 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 15:08	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579167	12/31/20 00:27	NRJ	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 17:34	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579796	01/05/21 19:52	EEN	TAL CHI
Total/NA	Prep	7471B			578888	12/29/20 12:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579052	12/30/20 07:46	MJG	TAL CHI
Total/NA	Prep	9010C			578679	12/28/20 13:48	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578735	12/28/20 15:42	PSP	TAL CHI

Client Sample ID: 3972-COV-10-B02 (0-1)

Lab Sample ID: 500-192915-2

Date Collected: 12/22/20 14:50

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 02:02	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Client Sample ID: 3972-COV-10-B02 (0-1)

Lab Sample ID: 500-192915-2

Date Collected: 12/22/20 14:50

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:16	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 21:37	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:05	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 12:45	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:09	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 17:26	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578304	12/23/20 11:12	LWN	TAL CHI

Client Sample ID: 3972-COV-10-B02 (0-1)

Lab Sample ID: 500-192915-2

Date Collected: 12/22/20 14:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578787	12/22/20 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 15:33	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579167	12/30/20 23:58	NRJ	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 17:38	EEN	TAL CHI
Total/NA	Prep	7471B			578888	12/29/20 12:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579052	12/30/20 07:48	MJG	TAL CHI
Total/NA	Prep	9010C			578679	12/28/20 13:48	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578735	12/28/20 15:47	PSP	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192915-1	3972-COV-10-B01 (0-1)	Solid	12/22/20 14:30	12/22/20 17:22	
500-192915-2	3972-COV-10-B02 (0-1)	Solid	12/22/20 14:50	12/22/20 17:22	

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>TERRACON</u> Address: <u>192 Exchange Blvd</u> City/State/Zip: <u>Glendale Heights, IL</u> Phone: <u>630-445-0168</u> Fax: _____ Project Name: <u>11207011W</u> Site: <u>11207011W</u> P O # _____		Project Manager: <u>Rich O'Sien</u> Tel/Email: <u>matt.wass@terracon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>12/22/20</u> Carrier: _____		COC No: _____ _____ of _____ COCs Sampler: <u>D. G. A</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>580-192915</u>	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" 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) _____ <u>VOC's</u> <u>SLOES</u> <u>Total B Inorganics / pH</u> <u>ICP 23 Inorganics</u> <u>SLP 23 Inorganics</u>		 500-192915 COC		Sample Specific Notes: _____	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)		
1 3972-COV-10-B01 (0-1)	12/24/20	1430	G	Soil	6	N	M	X	X
2 3972-COV-10-B02 (0-1)	12/24/20	1450	G	Soil	6	N	M	X	X
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" 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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: * NO ALCAMS run * Hold SLP 23 Inorganics per Terracon Instructions 3.8 → 3.5									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____			
Relinquished by: <u>[Signature]</u>		Company: <u>Terracon</u>		Date/Time: <u>12/22/20</u>		Received by: <u>P. Neal</u>		Company: <u>EVA</u>	
Relinquished by: <u>P. Neal</u>		Company: <u>EVA</u>		Date/Time: <u>12/20/20</u>		Received by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>Paula Buehler</u>		Company: <u>ATA</u>	
						Date/Time: <u>12/20/20</u>		_____	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192915-1

Login Number: 192915

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Buckley, Paula M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Irving Park (W-bound) IDOT STA 100+00 to 103+10; Barrington (N-bound) IDOT STA 61+60 to 63+80 (ISGS 3972-COV-11)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Schaumburg

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

Latitude: 42.00548 Longitude: - 88.14447
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 103

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01, B02, B03 and B04 was sampled adjacent to ISGS Site No 3972-COV-11. See Exhibit 2 and Table 17 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report Nos. J192717-1 and J192921-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



[Empty box for P.E or L.P.G. Seal]

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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-11)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 8

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-11-B01 (0-3)	3972-COV-11-B02 (0-7.5)
		Chicago	MSAs		Sample Depth (feet)	(0-3)	(0-7.5)
					Date Collected	12/17/2020	12/22/2020
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0069	0.0078
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.012	<0.012
Chrysene	mg/kg	1.2	2.7	88		<0.011	<0.010
Phenanthrene	mg/kg	1.3	2.5	210		<0.0054	<0.0052
Pyrene	mg/kg	1.9	3.0	2300		<0.0077	<0.0074
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.3	7.5
Barium	mg/kg	---	110	1500		51	63
Cadmium	mg/kg	---	0.6	5.2		<0.021	<0.020
Chromium, total	mg/kg	---	16.2	21		18	17
Lead	mg/kg	---	36	107		17	14
Mercury	mg/kg	---	0.06	0.89		0.019	0.027
Selenium	mg/kg	---	0.48	1.3		<0.34	<0.33
Silver	mg/kg	---	0.55	4.4		<0.075	<0.072
Antimony	mg/kg	---	4.0	5		0.59	0.39
Beryllium	mg/kg	---	0.59	22		0.83	0.64
Calcium	mg/kg	---	9,300	---		69000	77000
Cobalt	mg/kg	---	8.9	20		14	12
Copper	mg/kg	---	19.6	2900		25	22
Cyanide	mg/kg	---	0.51	---		<0.13	<0.13
Iron	mg/kg	---	15,900	15000		20000	23000
Magnesium	mg/kg	---	4,820	325000		32000	41000
Manganese	mg/kg	---	636	630		380	390
Nickel	mg/kg	---	18	100		37	30
Potassium	mg/kg	---	1,268	---		3600	2800
Sodium	mg/kg	---	130	---		530	1100
Thallium	mg/kg	---	0.32	2.6		0.51	<0.28
Vanadium	mg/kg	---	25.2	550		20	22
Zinc	mg/kg	---	95	5100		57	61
pH			6.25	9		8.2	8.3

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-11)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 8

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-11-B01 (0-3)	3972-COV-11-B02 (0-7.5)
		Chicago	MSAs		Sample Depth (feet)	(0-3)	(0-7.5)
					Date Collected	12/17/2020	12/22/2020
Inorganic Analytical Parameters (SPLP)							
Antimony, SPLP	mg/L	---	---	---		--	--
Arsenic, SPLP	mg/L	---	---	---		--	--
Barium, SPLP	mg/L	---	---	---		--	--
Beryllium, SPLP	mg/L	---	---	---		--	--
Cadmium, SPLP	mg/L	---	---	---		--	--
Calcium, SPLP	mg/L	---	---	---		--	--
Chromium, SPLP	mg/L	---	---	---		--	--
Cobalt, SPLP	mg/L	---	---	---		--	--
Copper, SPLP	mg/L	---	---	---		--	--
Iron, SPLP	mg/L	---	---	---		--	--
Lead, SPLP	mg/L	---	---	---		0.096	--
Magnesium, SPLP	mg/L	---	---	---		--	--
Manganese, SPLP	mg/L	---	---	---		0.82	0.89
Mercury, SPLP	mg/L	---	---	---		--	--
Nickel, SPLP	mg/L	---	---	---		--	--
Potassium, SPLP	mg/L	---	---	---		--	--
Selenium, SPLP	mg/L	---	---	---		--	--
Silver, SPLP	mg/L	---	---	---		--	--
Sodium, SPLP	mg/L	---	---	---		--	--
Thallium, SPLP	mg/L	---	---	---		--	--
Vanadium, SPLP	mg/L	---	---	---		--	--
Zinc, SPLP	mg/L	---	---	---		--	--
Cyanide, SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic, TCLP	mg/L	---	---	---		<0.010	<0.010
Barium, TCLP	mg/L	---	---	---		0.46	0.60
Cadmium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium, TCLP	mg/L	---	---	---		<0.010	<0.010
Lead, TCLP	mg/L	---	---	---		0.0086	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.020	<0.020
Silver, TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		540	590
Cobalt, TCLP	mg/L	---	---	---		<0.010	<0.010
Copper, TCLP	mg/L	---	---	---		0.04	0.018
Cyanide, TCLP	mg/L	---	---	---		--	--
Iron, TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium, TCLP	mg/L	---	---	---		45	27
Manganese, TCLP	mg/L	---	---	---		0.50	1.7
Nickel, TCLP	mg/L	---	---	---		<0.010	0.012
Potassium, TCLP	mg/L	---	---	---		2.1	1.6
Sodium, TCLP	mg/L	---	---	---		--	--
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc, TCLP	mg/L	---	---	---		0.17	<0.020

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A
Preliminary Site Investigation
FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-11)
Hanover Park, Cook County, IL
Terracon Project No. 11207011W
Page 3 of 8

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-11-B02 (7.5-15)	3972-COV-11-B02 (7.5-15) DUP
		Chicago	MSAs		Sample Depth (feet)	(7.5-15)	(7.5-15)
					Date Collected	12/22/2020	12/22/2020
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0070	<0.0070
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.014	0.014
Chrysene	mg/kg	1.2	2.7	88		0.018	0.013
Phenanthrene	mg/kg	1.3	2.5	210		0.021	0.020
Pyrene	mg/kg	1.9	3.0	2300		0.011	0.012
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		12	10
Barium	mg/kg	---	110	1500		53	40
Cadmium	mg/kg	---	0.6	5.2		<0.021	<0.020
Chromium, total	mg/kg	---	16.2	21		20	20
Lead	mg/kg	---	36	107		16	14
Mercury	mg/kg	---	0.06	0.89		0.021	0.024
Selenium	mg/kg	---	0.48	1.3		<0.35	<0.32
Silver	mg/kg	---	0.55	4.4		<0.077	<0.070
Antimony	mg/kg	---	4.0	5		0.48	0.39
Beryllium	mg/kg	---	0.59	22		0.77	0.74
Calcium	mg/kg	---	9,300	---		67000	68000
Cobalt	mg/kg	---	8.9	20		20	12
Copper	mg/kg	---	19.6	2900		24	24
Cyanide	mg/kg	---	0.51	---		<0.12	<0.14
Iron	mg/kg	---	15,900	15000		23000	22000
Magnesium	mg/kg	---	4,820	325000		35000	32000
Manganese	mg/kg	---	636	630		600	390
Nickel	mg/kg	---	18	100		43	36
Potassium	mg/kg	---	1,268	---		4000	3500
Sodium	mg/kg	---	130	---		500	440
Thallium	mg/kg	---	0.32	2.6		0.39	0.41
Vanadium	mg/kg	---	25.2	550		23	21
Zinc	mg/kg	---	95	5100		62	62
pH			6.25	9		7.6	7.7

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-11)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 4 of 8

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-11-B02 (7.5-15)	3972-COV-11-B02 (7.5-15) DUP
		Chicago	MSAs		Sample Depth (feet)	(7.5-15)	(7.5-15)
					Date Collected	12/22/2020	12/22/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		<0.010	<0.010
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.53	0.37
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		480	480
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		0.017	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	0.21
Magnesium,TCLP	mg/L	---	---	---		90	82
Manganese,TCLP	mg/L	---	---	---		1.1	0.99
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		3.4	3.4
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.021	<0.020

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-11)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

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Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-11-B03 (0-7)	3972-COV-11-B03 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(7-13)
					Date Collected	12/22/2020	12/22/2020
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0067	<0.0069
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.012	0.017
Chrysene	mg/kg	1.2	2.7	88		<0.010	0.023
Phenanthrene	mg/kg	1.3	2.5	210		<0.0052	0.037
Pyrene	mg/kg	1.9	3.0	2300		<0.0075	0.021
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.1	10
Barium	mg/kg	---	110	1500		66	53
Cadmium	mg/kg	---	0.6	5.2		0.034	<0.020
Chromium, total	mg/kg	---	16.2	21		17	19
Lead	mg/kg	---	36	107		14	15
Mercury	mg/kg	---	0.06	0.89		0.025	0.029
Selenium	mg/kg	---	0.48	1.3		<0.31	<0.33
Silver	mg/kg	---	0.55	4.4		<0.068	<0.073
Antimony	mg/kg	---	4.0	5		0.38	0.48
Beryllium	mg/kg	---	0.59	22		0.62	0.76
Calcium	mg/kg	---	9,300	---		74000	82000
Cobalt	mg/kg	---	8.9	20		10	16
Copper	mg/kg	---	19.6	2900		21	23
Cyanide	mg/kg	---	0.51	---		<0.14	<0.13
Iron	mg/kg	---	15,900	15000		19000	29000
Magnesium	mg/kg	---	4,820	325000		31000	47000
Manganese	mg/kg	---	636	630		330	440
Nickel	mg/kg	---	18	100		29	33
Potassium	mg/kg	---	1,268	---		2600	3600
Sodium	mg/kg	---	130	---		1500	190
Thallium	mg/kg	---	0.32	2.6		0.50	<0.28
Vanadium	mg/kg	---	25.2	550		20	21
Zinc	mg/kg	---	95	5100		64	59
pH			6.25	9		8.2	7.9

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-11)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

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Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-11-B03 (0-7)	3972-COV-11-B03 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(7-13)
					Date Collected	12/22/2020	12/22/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.76	<0.010
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.49	0.67
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		730	250
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		25	120
Manganese,TCLP	mg/L	---	---	---		0.42	1.5
Nickel,TCLP	mg/L	---	---	---		<0.010	0.011
Potassium,TCLP	mg/L	---	---	---		1.9	1.8
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020	0.13

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A
Preliminary Site Investigation
FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-11)
Hanover Park, Cook County, IL
Terracon Project No. 11207011W
Page 7 of 8

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-11-B04 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/17/2020
Semivolatile Organic Analytical Parameters						
Acenaphthene	mg/kg	0.09	0.13	570		<0.0068
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.012
Chrysene	mg/kg	1.2	2.7	88		<0.010
Phenanthrene	mg/kg	1.3	2.5	210		<0.0053
Pyrene	mg/kg	1.9	3.0	2300		<0.0075
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		9.2
Barium	mg/kg	---	110	1500		44
Cadmium	mg/kg	---	0.6	5.2		<0.020
Chromium, total	mg/kg	---	16.2	21		16
Lead	mg/kg	---	36	107		14
Mercury	mg/kg	---	0.06	0.89		0.020
Selenium	mg/kg	---	0.48	1.3		<0.33
Silver	mg/kg	---	0.55	4.4		<0.072
Antimony	mg/kg	---	4.0	5		0.60
Beryllium	mg/kg	---	0.59	22		0.65
Calcium	mg/kg	---	9,300	---		59000
Cobalt	mg/kg	---	8.9	20		13
Copper	mg/kg	---	19.6	2900		22
Cyanide	mg/kg	---	0.51	---		<0.14
Iron	mg/kg	---	15,900	15000		21000
Magnesium	mg/kg	---	4,820	325000		30000
Manganese	mg/kg	---	636	630		420
Nickel	mg/kg	---	18	100		35
Potassium	mg/kg	---	1,268	---		2700
Sodium	mg/kg	---	130	---		150
Thallium	mg/kg	---	0.32	2.6		0.61
Vanadium	mg/kg	---	25.2	550		19
Zinc	mg/kg	---	95	5100		70
pH			6.25	9		8.3

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-11)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

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Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-11-B04 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/17/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		0.053
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.38
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		600
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		0.069
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		93
Manganese,TCLP	mg/L	---	---	---		0.28
Nickel,TCLP	mg/L	---	---	---		0.011
Potassium,TCLP	mg/L	---	---	---		2.9
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.081

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192717-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/30/2020 4:53:44 PM

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Job ID: 500-192717-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192717-1

Receipt

The samples were received on 12/17/2020 5:30 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.2° C and 1.1° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-578372 and analytical batch 500-578463 had 1 analyte outside control limits: 3,3'-Dichlorobenzidine. These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-578372 and analytical batch 500-578463 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries was within acceptance limits.

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

Metals

Method 6010B: The method blank for preparation batch 500-578212 and analytical batch 500-579158 contained Potassium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B01 (0-3)

Lab Sample ID: 500-192717-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.59	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.83		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	17		1.5	0.67	mg/Kg	5	☼	6010B	Total/NA
Magnesium	32000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000		58	9.9	mg/Kg	5	☼	6010B	Total/NA
Manganese	380		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.51	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	3600	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	530	B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0086		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.096		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.82		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-11-B04 (0-3)

Lab Sample ID: 500-192717-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.2		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	14		1.4	0.65	mg/Kg	5	☼	6010B	Total/NA
Magnesium	30000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000		56	9.5	mg/Kg	5	☼	6010B	Total/NA
Manganese	420		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.61		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700	B	28	9.9	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B04 (0-3) (Continued)

Lab Sample ID: 500-192717-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	150	B	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	600		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.069		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	93		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.081	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.053		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B01 (0-3)

Lab Sample ID: 500-192717-1

Date Collected: 12/17/20 12:55

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0068		0.016	0.0068	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Bromoform	<0.00045		0.0016	0.00045	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Chlorobenzene	<0.00057		0.0016	0.00057	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
cis-1,2-Dichloroethene	<0.00043		0.0016	0.00043	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
1,1-Dichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
1,1-Dichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
1,2-Dichloropropene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Ethylbenzene	<0.00074		0.0016	0.00074	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	12/18/20 17:43	12/23/20 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	12/18/20 17:43	12/23/20 17:57	1
Dibromofluoromethane	99		75 - 126	12/18/20 17:43	12/23/20 17:57	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	12/18/20 17:43	12/23/20 17:57	1
Toluene-d8 (Surr)	93		75 - 124	12/18/20 17:43	12/23/20 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B01 (0-3)

Lab Sample ID: 500-192717-1

Date Collected: 12/17/20 12:55

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0075		0.038	0.0075	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Benzo[b]fluoranthene	<0.0083		0.038	0.0083	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
4-Chloroaniline	<0.18	F2	0.78	0.18	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Chrysene	<0.011		0.038	0.011	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
3,3'-Dichlorobenzidine	<0.054	*	0.19	0.054	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2,4-Dinitrophenol	<0.68	F1	0.78	0.68	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Fluoranthene	<0.0071		0.038	0.0071	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Hexachlorocyclopentadiene	<0.22	F1	0.78	0.22	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	12/23/20 16:09	12/24/20 12:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B01 (0-3)

Lab Sample ID: 500-192717-1

Date Collected: 12/17/20 12:55

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
Pentachlorophenol	<0.62	F1	0.78	0.62	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
Phenanthrene	<0.0054		0.038	0.0054	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
Phenol	<0.086		0.19	0.086	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
Pyrene	<0.0077		0.038	0.0077	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	✳	12/23/20 16:09	12/24/20 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145	12/23/20 16:09	12/24/20 12:31	1
2-Fluorophenol	97		31 - 166	12/23/20 16:09	12/24/20 12:31	1
Nitrobenzene-d5	95		37 - 147	12/23/20 16:09	12/24/20 12:31	1
Phenol-d5	98		30 - 153	12/23/20 16:09	12/24/20 12:31	1
Terphenyl-d14	90		42 - 157	12/23/20 16:09	12/24/20 12:31	1
2,4,6-Tribromophenol	90		31 - 143	12/23/20 16:09	12/24/20 12:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.2	0.23	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Arsenic	7.3		0.58	0.20	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Barium	51		0.58	0.066	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Beryllium	0.83		0.23	0.054	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Cadmium	<0.021		0.12	0.021	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Chromium	18		0.58	0.29	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Cobalt	14		0.29	0.076	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Copper	25		0.58	0.16	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Iron	20000		12	6.0	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Lead	17		1.5	0.67	mg/Kg	✳	12/23/20 07:37	12/30/20 11:38	5
Magnesium	32000		5.8	2.9	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Calcium	69000		58	9.9	mg/Kg	✳	12/23/20 07:37	12/30/20 11:38	5
Manganese	380		0.58	0.084	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Nickel	37		0.58	0.17	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Selenium	<0.34		0.58	0.34	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Silver	<0.075		0.29	0.075	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Thallium	0.51	J	0.58	0.29	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Vanadium	20		0.29	0.069	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Zinc	57		1.2	0.51	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Potassium	3600	B	29	10	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1
Sodium	530	B	58	8.6	mg/Kg	✳	12/23/20 07:37	12/30/20 10:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:48	1
Barium	0.46	J	0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:48	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B01 (0-3)

Lab Sample ID: 500-192717-1

Date Collected: 12/17/20 12:55

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	540		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 22:48	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:48	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:48	1
Copper	0.040		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:48	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:48	1
Lead	0.0086		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 22:48	1
Magnesium	45		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:48	1
Manganese	0.50		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:48	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:48	1
Potassium	2.1 J		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:48	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:48	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:48	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:48	1
Zinc	0.17 J		0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:48	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.096		0.0075	0.0075	mg/L		12/29/20 06:44	12/29/20 20:41	1
Manganese	0.82		0.025	0.010	mg/L		12/29/20 06:44	12/29/20 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 14:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 14:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0058	mg/Kg	✱	12/23/20 13:40	12/24/20 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.25	0.13	mg/Kg	✱	12/23/20 12:32	12/23/20 14:20	1
pH	8.2		0.2	0.2	SU			12/22/20 21:34	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B04 (0-3)

Lab Sample ID: 500-192717-2

Date Collected: 12/17/20 12:25

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0064		0.015	0.0064	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Benzene	<0.00037		0.0015	0.00037	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Bromoform	<0.00043		0.0015	0.00043	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Bromomethane	<0.0014		0.0037	0.0014	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
2-Butanone (MEK)	<0.0016		0.0037	0.0016	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Carbon disulfide	<0.00076		0.0037	0.00076	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Carbon tetrachloride	<0.00042		0.0015	0.00042	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Chlorobenzene	<0.00054		0.0015	0.00054	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Chloroethane	<0.0011		0.0037	0.0011	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Chloroform	<0.00051		0.0015	0.00051	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Chloromethane	<0.0015		0.0037	0.0015	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
cis-1,2-Dichloroethene	<0.00041		0.0015	0.00041	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
cis-1,3-Dichloropropene	<0.00044		0.0015	0.00044	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Dibromochloromethane	<0.00048		0.0015	0.00048	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
1,1-Dichloroethane	<0.00050		0.0015	0.00050	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
1,2-Dichloroethane	<0.0011		0.0037	0.0011	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
1,1-Dichloroethene	<0.00050		0.0015	0.00050	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
1,2-Dichloropropene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
1,3-Dichloropropene, Total	<0.00051		0.0015	0.00051	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Ethylbenzene	<0.00070		0.0015	0.00070	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
2-Hexanone	<0.0011		0.0037	0.0011	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Methylene Chloride	<0.0014		0.0037	0.0014	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0037	0.0011	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Methyl tert-butyl ether	<0.00043		0.0015	0.00043	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Styrene	<0.00044		0.0015	0.00044	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
1,1,2,2-Tetrachloroethane	<0.00047		0.0015	0.00047	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Tetrachloroethene	<0.00050		0.0015	0.00050	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Toluene	<0.00037		0.0015	0.00037	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
trans-1,2-Dichloroethene	<0.00065		0.0015	0.00065	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
trans-1,3-Dichloropropene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
1,1,1-Trichloroethane	<0.00049		0.0015	0.00049	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
1,1,2-Trichloroethane	<0.00063		0.0015	0.00063	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Trichloroethene	<0.00049		0.0015	0.00049	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Vinyl acetate	<0.0013		0.0037	0.0013	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Vinyl chloride	<0.00065		0.0015	0.00065	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1
Xylenes, Total	<0.00047		0.0029	0.00047	mg/Kg	✳	12/18/20 17:43	12/23/20 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	12/18/20 17:43	12/23/20 18:22	1
Dibromofluoromethane	99		75 - 126	12/18/20 17:43	12/23/20 18:22	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/18/20 17:43	12/23/20 18:22	1
Toluene-d8 (Surr)	93		75 - 124	12/18/20 17:43	12/23/20 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
Benzo[a]anthracene	<0.0051		0.038	0.0051	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B04 (0-3)

Lab Sample ID: 500-192717-2

Date Collected: 12/17/20 12:25

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0073		0.038	0.0073	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Benzo[b]fluoranthene	<0.0082		0.038	0.0082	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Dibenz(a,h)anthracene	<0.0073		0.038	0.0073	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
3,3'-Dichlorobenzidine	<0.053	*	0.19	0.053	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Fluoranthene	<0.0070		0.038	0.0070	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.038	0.0098	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2-Methylnaphthalene	<0.0070		0.076	0.0070	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	12/23/20 16:09	12/24/20 13:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B04 (0-3)

Lab Sample ID: 500-192717-2

Date Collected: 12/17/20 12:25

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
Phenanthrene	<0.0053		0.038	0.0053	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
Phenol	<0.084		0.19	0.084	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
Pyrene	<0.0075		0.038	0.0075	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	✳	12/23/20 16:09	12/24/20 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		43 - 145	12/23/20 16:09	12/24/20 13:20	1
2-Fluorophenol	98		31 - 166	12/23/20 16:09	12/24/20 13:20	1
Nitrobenzene-d5	98		37 - 147	12/23/20 16:09	12/24/20 13:20	1
Phenol-d5	98		30 - 153	12/23/20 16:09	12/24/20 13:20	1
Terphenyl-d14	89		42 - 157	12/23/20 16:09	12/24/20 13:20	1
2,4,6-Tribromophenol	80		31 - 143	12/23/20 16:09	12/24/20 13:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.1	0.22	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Arsenic	9.2		0.56	0.19	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Barium	44		0.56	0.064	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Beryllium	0.65		0.22	0.052	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Cadmium	<0.020		0.11	0.020	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Chromium	16		0.56	0.28	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Cobalt	13		0.28	0.073	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Copper	22		0.56	0.16	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Iron	21000		11	5.8	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Lead	14		1.4	0.65	mg/Kg	✳	12/23/20 07:37	12/30/20 11:42	5
Magnesium	30000		5.6	2.8	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Calcium	59000		56	9.5	mg/Kg	✳	12/23/20 07:37	12/30/20 11:42	5
Manganese	420		0.56	0.081	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Nickel	35		0.56	0.16	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Selenium	<0.33		0.56	0.33	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Silver	<0.072		0.28	0.072	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Thallium	0.61		0.56	0.28	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Vanadium	19		0.28	0.066	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Zinc	70		1.1	0.49	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Potassium	2700	B	28	9.9	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1
Sodium	150	B	56	8.3	mg/Kg	✳	12/23/20 07:37	12/30/20 10:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:52	1
Barium	0.38	J	0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:52	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B04 (0-3)

Lab Sample ID: 500-192717-2

Date Collected: 12/17/20 12:25

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	600		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 22:52	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:52	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:52	1
Copper	0.069		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:52	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 22:52	1
Magnesium	93		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:52	1
Manganese	0.28		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:52	1
Nickel	0.011	J	0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:52	1
Potassium	2.9		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:52	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:52	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:52	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:52	1
Zinc	0.081	J	0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.053		0.025	0.010	mg/L		12/29/20 06:44	12/29/20 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 15:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 15:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0060	mg/Kg	☼	12/23/20 13:40	12/24/20 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.27	0.14	mg/Kg	☼	12/23/20 12:32	12/23/20 14:25	1
pH	8.3		0.2	0.2	SU			12/22/20 21:36	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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)
500-192717-1	3972-COV-11-B01 (0-3)	101	99	94	93
500-192717-2	3972-COV-11-B04 (0-3)	105	99	91	93
LCS 500-578187/26	Lab Control Sample	96	89	80	97
LCS 500-578187/5	Lab Control Sample Dup	93	87	76	97
MB 500-578187/7	Method Blank	100	95	85	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-192717-1	3972-COV-11-B01 (0-3)	97	97	95	98	90	90
500-192717-1 MS	3972-COV-11-B01 (0-3)	98	109	104	107	97	101
500-192717-1 MSD	3972-COV-11-B01 (0-3)	96	103	99	100	88	88
500-192717-2	3972-COV-11-B04 (0-3)	95	98	98	98	89	80
LCS 500-578372/2-A	Lab Control Sample	100	98	105	96	93	76
MB 500-578372/1-A	Method Blank	101	94	102	100	97	78

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: MB 500-578187/7
Matrix: Solid
Analysis Batch: 578187

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/23/20 12:48	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/23/20 12:48	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/23/20 12:48	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/23/20 12:48	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/23/20 12:48	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/23/20 12:48	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/23/20 12:48	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/23/20 12:48	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/23/20 12:48	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/23/20 12:48	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/23/20 12:48	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/23/20 12:48	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/23/20 12:48	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/23/20 12:48	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/23/20 12:48	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/23/20 12:48	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/23/20 12:48	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/23/20 12:48	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/23/20 12:48	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/23/20 12:48	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/23/20 12:48	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/23/20 12:48	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/23/20 12:48	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/23/20 12:48	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/23/20 12:48	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/23/20 12:48	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/23/20 12:48	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/23/20 12:48	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/23/20 12:48	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/23/20 12:48	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/23/20 12:48	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/23/20 12:48	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/23/20 12:48	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/23/20 12:48	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		75 - 131		12/23/20 12:48	1
Dibromofluoromethane	95		75 - 126		12/23/20 12:48	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134		12/23/20 12:48	1
Toluene-d8 (Surr)	95		75 - 124		12/23/20 12:48	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: LCS 500-578187/26

Matrix: Solid

Analysis Batch: 578187

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	0.0287		mg/Kg		57	40 - 150
Benzene	0.0500	0.0512		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0454		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0437		mg/Kg		87	68 - 136
Bromomethane	0.0500	0.0381		mg/Kg		76	70 - 130
2-Butanone (MEK)	0.0500	0.0254		mg/Kg		51	47 - 138
Carbon disulfide	0.0500	0.0521		mg/Kg		104	70 - 129
Carbon tetrachloride	0.0500	0.0533		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0531		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0508		mg/Kg		102	75 - 125
Chloroform	0.0500	0.0473		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0539		mg/Kg		108	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0560		mg/Kg		112	70 - 125
1,2-Dichloroethane	0.0500	0.0437		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 120
1,2-Dichloropropane	0.0500	0.0538		mg/Kg		108	70 - 125
Ethylbenzene	0.0500	0.0547		mg/Kg		109	61 - 136
2-Hexanone	0.0500	0.0256		mg/Kg		51	48 - 146
Methylene Chloride	0.0500	0.0449		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0258		mg/Kg		52	50 - 148
Methyl tert-butyl ether	0.0500	0.0357		mg/Kg		71	50 - 140
Styrene	0.0500	0.0522		mg/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0420		mg/Kg		84	70 - 122
Tetrachloroethene	0.0500	0.0523		mg/Kg		105	70 - 124
Toluene	0.0500	0.0538		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0515		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0424		mg/Kg		85	70 - 125
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128
1,1,2-Trichloroethane	0.0500	0.0446		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0537		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0271		mg/Kg		54	40 - 153
Vinyl chloride	0.0500	0.0518		mg/Kg		104	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	89		75 - 126
1,2-Dichloroethane-d4 (Surr)	80		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: LCSD 500-578187/5
Matrix: Solid
Analysis Batch: 578187

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	0.0335		mg/Kg		67	40 - 150	15	30
Benzene	0.0500	0.0558		mg/Kg		112	70 - 125	9	30
Bromodichloromethane	0.0500	0.0503		mg/Kg		101	67 - 129	10	30
Bromoform	0.0500	0.0484		mg/Kg		97	68 - 136	10	30
Bromomethane	0.0500	0.0437		mg/Kg		87	70 - 130	14	30
2-Butanone (MEK)	0.0500	0.0264		mg/Kg		53	47 - 138	4	30
Carbon disulfide	0.0500	0.0589		mg/Kg		118	70 - 129	12	30
Carbon tetrachloride	0.0500	0.0592		mg/Kg		118	75 - 125	11	30
Chlorobenzene	0.0500	0.0581		mg/Kg		116	50 - 150	9	30
Chloroethane	0.0500	0.0560		mg/Kg		112	75 - 125	10	30
Chloroform	0.0500	0.0524		mg/Kg		105	57 - 135	10	30
Chloromethane	0.0500	0.0617		mg/Kg		123	70 - 125	14	30
cis-1,2-Dichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125	11	30
cis-1,3-Dichloropropene	0.0500	0.0491		mg/Kg		98	70 - 125	10	30
Dibromochloromethane	0.0500	0.0524		mg/Kg		105	69 - 125	7	30
1,1-Dichloroethane	0.0500	0.0610		mg/Kg		122	70 - 125	9	30
1,2-Dichloroethane	0.0500	0.0475		mg/Kg		95	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0571		mg/Kg		114	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0590		mg/Kg		118	70 - 125	9	30
Ethylbenzene	0.0500	0.0601		mg/Kg		120	61 - 136	9	30
2-Hexanone	0.0500	0.0305		mg/Kg		61	48 - 146	17	30
Methylene Chloride	0.0500	0.0501		mg/Kg		100	70 - 126	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0295		mg/Kg		59	50 - 148	13	30
Methyl tert-butyl ether	0.0500	0.0414		mg/Kg		83	50 - 140	15	30
Styrene	0.0500	0.0570		mg/Kg		114	70 - 125	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.0470		mg/Kg		94	70 - 122	11	30
Tetrachloroethene	0.0500	0.0566		mg/Kg		113	70 - 124	8	30
Toluene	0.0500	0.0588		mg/Kg		118	70 - 125	9	30
trans-1,2-Dichloroethene	0.0500	0.0568		mg/Kg		114	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125	8	30
1,1,1-Trichloroethane	0.0500	0.0552		mg/Kg		110	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125	11	30
Trichloroethene	0.0500	0.0589		mg/Kg		118	70 - 125	9	30
Vinyl acetate	0.0500	0.0265		mg/Kg		53	40 - 153	2	30
Vinyl chloride	0.0500	0.0584		mg/Kg		117	70 - 125	12	30
Xylenes, Total	0.100	0.113		mg/Kg		113	53 - 147	10	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: MB 500-578372/1-A

Matrix: Solid

Analysis Batch: 578463

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 578372

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/23/20 16:09	12/24/20 11:42	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: MB 500-578372/1-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/23/20 16:09	12/24/20 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		43 - 145	12/23/20 16:09	12/24/20 11:42	1
2-Fluorophenol	94		31 - 166	12/23/20 16:09	12/24/20 11:42	1
Nitrobenzene-d5	102		37 - 147	12/23/20 16:09	12/24/20 11:42	1
Phenol-d5	100		30 - 153	12/23/20 16:09	12/24/20 11:42	1
Terphenyl-d14	97		42 - 157	12/23/20 16:09	12/24/20 11:42	1
2,4,6-Tribromophenol	78		31 - 143	12/23/20 16:09	12/24/20 11:42	1

Lab Sample ID: LCS 500-578372/2-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.24		mg/Kg		93	65 - 124
Acenaphthylene	1.33	1.20		mg/Kg		90	68 - 120
Anthracene	1.33	1.25		mg/Kg		93	70 - 114
Benzo[a]anthracene	1.33	1.19		mg/Kg		89	67 - 122
Benzo[a]pyrene	1.33	1.39		mg/Kg		104	65 - 133
Benzo[b]fluoranthene	1.33	1.37		mg/Kg		103	69 - 129
Benzo[g,h,i]perylene	1.33	1.48		mg/Kg		111	72 - 131
Benzo[k]fluoranthene	1.33	1.40		mg/Kg		105	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.29		mg/Kg		97	60 - 112
Bis(2-chloroethyl)ether	1.33	1.21		mg/Kg		91	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		100	72 - 131
4-Bromophenyl phenyl ether	1.33	1.35		mg/Kg		101	68 - 118
Butyl benzyl phthalate	1.33	1.27		mg/Kg		95	71 - 129
Carbazole	1.33	1.34		mg/Kg		101	65 - 142
4-Chloroaniline	1.33	0.794		mg/Kg		60	30 - 150
4-Chloro-3-methylphenol	1.33	1.31		mg/Kg		99	65 - 122
2-Chloronaphthalene	1.33	1.27		mg/Kg		95	69 - 114
2-Chlorophenol	1.33	1.20		mg/Kg		90	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: LCS 500-578372/2-A

Matrix: Solid

Analysis Batch: 578463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		91	62 - 119
Chrysene	1.33	1.24		mg/Kg		93	63 - 120
Dibenz(a,h)anthracene	1.33	1.46		mg/Kg		109	64 - 131
Dibenzofuran	1.33	1.26		mg/Kg		94	66 - 115
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.14		mg/Kg		85	65 - 124
1,4-Dichlorobenzene	1.33	1.14		mg/Kg		86	61 - 110
3,3'-Dichlorobenzidine	1.33	0.446	*	mg/Kg		33	35 - 128
2,4-Dichlorophenol	1.33	1.21		mg/Kg		91	58 - 120
Diethyl phthalate	1.33	1.33		mg/Kg		99	58 - 120
2,4-Dimethylphenol	1.33	0.998		mg/Kg		75	60 - 110
Dimethyl phthalate	1.33	1.27		mg/Kg		95	69 - 116
Di-n-butyl phthalate	1.33	1.36		mg/Kg		102	65 - 120
4,6-Dinitro-2-methylphenol	2.67	2.31		mg/Kg		87	10 - 110
2,4-Dinitrophenol	2.67	1.85		mg/Kg		69	10 - 100
2,4-Dinitrotoluene	1.33	1.30		mg/Kg		98	69 - 124
2,6-Dinitrotoluene	1.33	1.31		mg/Kg		98	70 - 123
Di-n-octyl phthalate	1.33	1.43		mg/Kg		108	68 - 134
Fluoranthene	1.33	1.28		mg/Kg		96	62 - 120
Fluorene	1.33	1.16		mg/Kg		87	62 - 120
Hexachlorobenzene	1.33	1.29		mg/Kg		97	63 - 124
Hexachlorobutadiene	1.33	1.27		mg/Kg		95	56 - 120
Hexachlorocyclopentadiene	1.33	0.401	J	mg/Kg		30	10 - 133
Hexachloroethane	1.33	1.24		mg/Kg		93	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.48		mg/Kg		111	68 - 130
Isophorone	1.33	1.31		mg/Kg		99	55 - 110
2-Methylnaphthalene	1.33	1.25		mg/Kg		94	69 - 112
2-Methylphenol	1.33	1.10		mg/Kg		83	60 - 120
3 & 4 Methylphenol	1.33	1.28		mg/Kg		96	57 - 120
Naphthalene	1.33	1.20		mg/Kg		90	63 - 110
2-Nitroaniline	1.33	1.57		mg/Kg		118	57 - 124
3-Nitroaniline	1.33	0.765		mg/Kg		57	40 - 122
4-Nitroaniline	1.33	0.879		mg/Kg		66	60 - 160
Nitrobenzene	1.33	1.32		mg/Kg		99	60 - 116
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
4-Nitrophenol	2.67	3.02		mg/Kg		113	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.37		mg/Kg		103	56 - 118
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.42		mg/Kg		107	40 - 124
Pentachlorophenol	2.67	2.00		mg/Kg		75	13 - 112
Phenanthrene	1.33	1.28		mg/Kg		96	62 - 120
Phenol	1.33	1.32		mg/Kg		99	56 - 122
Pyrene	1.33	1.18		mg/Kg		89	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.35		mg/Kg		101	50 - 120
2,4,6-Trichlorophenol	1.33	1.18		mg/Kg		89	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: LCS 500-578372/2-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578372

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	100		43 - 145
2-Fluorophenol	98		31 - 166
Nitrobenzene-d5	105		37 - 147
Phenol-d5	96		30 - 153
Terphenyl-d14	93		42 - 157
2,4,6-Tribromophenol	76		31 - 143

Lab Sample ID: 500-192717-1 MS
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: 3972-COV-11-B01 (0-3)
Prep Type: Total/NA
Prep Batch: 578372

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	<0.0069		1.54	1.46		mg/Kg	☼	94	65 - 124
Acenaphthylene	<0.0051		1.54	1.41		mg/Kg	☼	91	68 - 120
Anthracene	<0.0064		1.54	1.40		mg/Kg	☼	91	70 - 114
Benzo[a]anthracene	<0.0052		1.54	1.38		mg/Kg	☼	90	67 - 122
Benzo[a]pyrene	<0.0075		1.54	1.55		mg/Kg	☼	100	65 - 133
Benzo[b]fluoranthene	<0.0083		1.54	1.59		mg/Kg	☼	103	69 - 129
Benzo[g,h,i]perylene	<0.012		1.54	1.33		mg/Kg	☼	86	72 - 131
Benzo[k]fluoranthene	<0.011		1.54	1.64		mg/Kg	☼	106	68 - 127
Bis(2-chloroethoxy)methane	<0.039		1.54	1.52		mg/Kg	☼	98	60 - 112
Bis(2-chloroethyl)ether	<0.058		1.54	1.52		mg/Kg	☼	99	55 - 111
Bis(2-ethylhexyl) phthalate	<0.070		1.54	1.43		mg/Kg	☼	92	72 - 131
4-Bromophenyl phenyl ether	<0.051		1.54	1.55		mg/Kg	☼	101	68 - 118
Butyl benzyl phthalate	<0.073		1.54	1.38		mg/Kg	☼	89	71 - 129
Carbazole	<0.096		1.54	1.58		mg/Kg	☼	102	65 - 142
4-Chloroaniline	<0.18	F2	1.54	0.772	J	mg/Kg	☼	50	30 - 150
4-Chloro-3-methylphenol	<0.13		1.54	1.63		mg/Kg	☼	105	65 - 122
2-Chloronaphthalene	<0.043		1.54	1.45		mg/Kg	☼	94	69 - 114
2-Chlorophenol	<0.066		1.54	1.46		mg/Kg	☼	95	64 - 110
4-Chlorophenyl phenyl ether	<0.045		1.54	1.49		mg/Kg	☼	96	62 - 119
Chrysene	<0.011		1.54	1.44		mg/Kg	☼	93	63 - 120
Dibenz(a,h)anthracene	<0.0074		1.54	1.46		mg/Kg	☼	95	64 - 131
Dibenzofuran	<0.045		1.54	1.47		mg/Kg	☼	95	66 - 115
1,2-Dichlorobenzene	<0.046		1.54	1.40		mg/Kg	☼	91	62 - 110
1,3-Dichlorobenzene	<0.043		1.54	1.29		mg/Kg	☼	84	60 - 110
1,4-Dichlorobenzene	<0.049		1.54	1.31		mg/Kg	☼	85	61 - 110
3,3'-Dichlorobenzidine	<0.054	*-	1.54	0.807		mg/Kg	☼	52	35 - 128
2,4-Dichlorophenol	<0.092		1.54	1.47		mg/Kg	☼	95	58 - 120
Diethyl phthalate	<0.065		1.54	1.48		mg/Kg	☼	96	58 - 120
2,4-Dimethylphenol	<0.15		1.54	1.19		mg/Kg	☼	77	60 - 110
Dimethyl phthalate	<0.050		1.54	1.44		mg/Kg	☼	94	69 - 116
Di-n-butyl phthalate	<0.059		1.54	1.44		mg/Kg	☼	93	65 - 120
4,6-Dinitro-2-methylphenol	<0.31		3.09	0.700	J	mg/Kg	☼	23	10 - 110
2,4-Dinitrophenol	<0.68	F1	3.09	<0.68	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.061		1.54	1.43		mg/Kg	☼	93	69 - 124
2,6-Dinitrotoluene	<0.076		1.54	1.44		mg/Kg	☼	93	70 - 123
Di-n-octyl phthalate	<0.063		1.54	1.46		mg/Kg	☼	95	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: 500-192717-1 MS

Matrix: Solid

Analysis Batch: 578463

Client Sample ID: 3972-COV-11-B01 (0-3)

Prep Type: Total/NA

Prep Batch: 578372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	<0.0071		1.54	1.38		mg/Kg	☼	89	62 - 120
Fluorene	<0.0054		1.54	1.45		mg/Kg	☼	94	62 - 120
Hexachlorobenzene	<0.0089		1.54	1.51		mg/Kg	☼	98	63 - 124
Hexachlorobutadiene	<0.061		1.54	1.47		mg/Kg	☼	95	56 - 120
Hexachlorocyclopentadiene	<0.22	F1	1.54	<0.22	F1	mg/Kg	☼	0	10 - 133
Hexachloroethane	<0.059		1.54	1.25		mg/Kg	☼	81	60 - 114
Indeno[1,2,3-cd]pyrene	<0.010		1.54	1.41		mg/Kg	☼	91	68 - 130
Isophorone	<0.043		1.54	1.51		mg/Kg	☼	98	55 - 110
2-Methylnaphthalene	<0.0071		1.54	1.43		mg/Kg	☼	92	69 - 112
2-Methylphenol	<0.062		1.54	1.78		mg/Kg	☼	115	60 - 120
3 & 4 Methylphenol	<0.064		1.54	1.63		mg/Kg	☼	106	57 - 120
Naphthalene	<0.0059		1.54	1.41		mg/Kg	☼	91	63 - 110
2-Nitroaniline	<0.052		1.54	1.74		mg/Kg	☼	113	57 - 124
3-Nitroaniline	<0.12		1.54	0.983		mg/Kg	☼	64	40 - 122
4-Nitroaniline	<0.16		1.54	1.06		mg/Kg	☼	69	60 - 160
Nitrobenzene	<0.0096		1.54	1.52		mg/Kg	☼	99	60 - 116
2-Nitrophenol	<0.091		1.54	1.40		mg/Kg	☼	91	60 - 120
4-Nitrophenol	<0.37		3.09	3.27		mg/Kg	☼	106	30 - 122
N-Nitrosodi-n-propylamine	<0.047		1.54	1.72		mg/Kg	☼	111	56 - 118
N-Nitrosodiphenylamine	<0.045		1.54	1.45		mg/Kg	☼	94	65 - 112
2,2'-oxybis[1-chloropropane]	<0.045		1.54	1.82		mg/Kg	☼	118	40 - 124
Pentachlorophenol	<0.62	F1	3.09	1.43		mg/Kg	☼	46	13 - 112
Phenanthrene	<0.0054		1.54	1.40		mg/Kg	☼	91	62 - 120
Phenol	<0.086		1.54	1.53		mg/Kg	☼	99	56 - 122
Pyrene	<0.0077		1.54	1.35		mg/Kg	☼	88	61 - 128
1,2,4-Trichlorobenzene	<0.042		1.54	1.40		mg/Kg	☼	91	66 - 117
2,4,5-Trichlorophenol	<0.088		1.54	1.56		mg/Kg	☼	101	50 - 120
2,4,6-Trichlorophenol	<0.13		1.54	1.45		mg/Kg	☼	94	57 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorobiphenyl	98		43 - 145
2-Fluorophenol	109		31 - 166
Nitrobenzene-d5	104		37 - 147
Phenol-d5	107		30 - 153
Terphenyl-d14	97		42 - 157
2,4,6-Tribromophenol	101		31 - 143

Lab Sample ID: 500-192717-1 MSD

Matrix: Solid

Analysis Batch: 578463

Client Sample ID: 3972-COV-11-B01 (0-3)

Prep Type: Total/NA

Prep Batch: 578372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<0.0069		1.54	1.41		mg/Kg	☼	91	65 - 124	3	30
Acenaphthylene	<0.0051		1.54	1.36		mg/Kg	☼	89	68 - 120	3	30
Anthracene	<0.0064		1.54	1.39		mg/Kg	☼	90	70 - 114	1	30
Benzo[a]anthracene	<0.0052		1.54	1.29		mg/Kg	☼	84	67 - 122	7	30
Benzo[a]pyrene	<0.0075		1.54	1.50		mg/Kg	☼	97	65 - 133	3	30
Benzo[b]fluoranthene	<0.0083		1.54	1.58		mg/Kg	☼	103	69 - 129	1	30

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: 500-192717-1 MSD

Matrix: Solid

Analysis Batch: 578463

Client Sample ID: 3972-COV-11-B01 (0-3)

Prep Type: Total/NA

Prep Batch: 578372

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[g,h,i]perylene	<0.012		1.54	1.24		mg/Kg	☼	80	72 - 131	8	30
Benzo[k]fluoranthene	<0.011		1.54	1.56		mg/Kg	☼	102	68 - 127	5	30
Bis(2-chloroethoxy)methane	<0.039		1.54	1.46		mg/Kg	☼	95	60 - 112	4	30
Bis(2-chloroethyl)ether	<0.058		1.54	1.39		mg/Kg	☼	90	55 - 111	9	30
Bis(2-ethylhexyl) phthalate	<0.070		1.54	1.36		mg/Kg	☼	88	72 - 131	5	30
4-Bromophenyl phenyl ether	<0.051		1.54	1.46		mg/Kg	☼	95	68 - 118	6	30
Butyl benzyl phthalate	<0.073		1.54	1.32		mg/Kg	☼	85	71 - 129	5	30
Carbazole	<0.096		1.54	1.53		mg/Kg	☼	99	65 - 142	3	30
4-Chloroaniline	<0.18	F2	1.54	1.18	F2	mg/Kg	☼	77	30 - 150	42	30
4-Chloro-3-methylphenol	<0.13		1.54	1.51		mg/Kg	☼	98	65 - 122	8	30
2-Chloronaphthalene	<0.043		1.54	1.42		mg/Kg	☼	92	69 - 114	2	30
2-Chlorophenol	<0.066		1.54	1.36		mg/Kg	☼	88	64 - 110	7	30
4-Chlorophenyl phenyl ether	<0.045		1.54	1.46		mg/Kg	☼	95	62 - 119	2	30
Chrysene	<0.011		1.54	1.36		mg/Kg	☼	88	63 - 120	6	30
Dibenz(a,h)anthracene	<0.0074		1.54	1.34		mg/Kg	☼	87	64 - 131	9	30
Dibenzofuran	<0.045		1.54	1.43		mg/Kg	☼	93	66 - 115	2	30
1,2-Dichlorobenzene	<0.046		1.54	1.34		mg/Kg	☼	87	62 - 110	5	30
1,3-Dichlorobenzene	<0.043		1.54	1.29		mg/Kg	☼	84	60 - 110	1	30
1,4-Dichlorobenzene	<0.049		1.54	1.29		mg/Kg	☼	84	61 - 110	2	30
3,3'-Dichlorobenzidine	<0.054	*-	1.54	0.838		mg/Kg	☼	54	35 - 128	4	30
2,4-Dichlorophenol	<0.092		1.54	1.38		mg/Kg	☼	90	58 - 120	6	30
Diethyl phthalate	<0.065		1.54	1.44		mg/Kg	☼	93	58 - 120	3	30
2,4-Dimethylphenol	<0.15		1.54	1.46		mg/Kg	☼	95	60 - 110	20	30
Dimethyl phthalate	<0.050		1.54	1.39		mg/Kg	☼	91	69 - 116	4	30
Di-n-butyl phthalate	<0.059		1.54	1.43		mg/Kg	☼	93	65 - 120	1	30
4,6-Dinitro-2-methylphenol	<0.31		3.08	0.580	J	mg/Kg	☼	19	10 - 110	19	30
2,4-Dinitrophenol	<0.68	F1	3.08	<0.68	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.061		1.54	1.39		mg/Kg	☼	91	69 - 124	2	30
2,6-Dinitrotoluene	<0.076		1.54	1.41		mg/Kg	☼	92	70 - 123	2	30
Di-n-octyl phthalate	<0.063		1.54	1.41		mg/Kg	☼	91	68 - 134	4	30
Fluoranthene	<0.0071		1.54	1.35		mg/Kg	☼	87	62 - 120	3	30
Fluorene	<0.0054		1.54	1.39		mg/Kg	☼	90	62 - 120	4	30
Hexachlorobenzene	<0.0089		1.54	1.43		mg/Kg	☼	93	63 - 124	5	30
Hexachlorobutadiene	<0.061		1.54	1.40		mg/Kg	☼	91	56 - 120	5	30
Hexachlorocyclopentadiene	<0.22	F1	1.54	0.312	J	mg/Kg	☼	20	10 - 133	NC	30
Hexachloroethane	<0.059		1.54	1.37		mg/Kg	☼	89	60 - 114	10	30
Indeno[1,2,3-cd]pyrene	<0.010		1.54	1.33		mg/Kg	☼	86	68 - 130	6	30
Isophorone	<0.043		1.54	1.44		mg/Kg	☼	94	55 - 110	5	30
2-Methylnaphthalene	<0.0071		1.54	1.37		mg/Kg	☼	89	69 - 112	4	30
2-Methylphenol	<0.062		1.54	1.57		mg/Kg	☼	102	60 - 120	13	30
3 & 4 Methylphenol	<0.064		1.54	1.56		mg/Kg	☼	101	57 - 120	5	30
Naphthalene	<0.0059		1.54	1.35		mg/Kg	☼	87	63 - 110	5	30
2-Nitroaniline	<0.052		1.54	1.71		mg/Kg	☼	111	57 - 124	2	30
3-Nitroaniline	<0.12		1.54	1.09		mg/Kg	☼	71	40 - 122	10	30
4-Nitroaniline	<0.16		1.54	1.14		mg/Kg	☼	74	60 - 160	7	30
Nitrobenzene	<0.0096		1.54	1.48		mg/Kg	☼	96	60 - 116	3	30
2-Nitrophenol	<0.091		1.54	1.34		mg/Kg	☼	87	60 - 120	4	30
4-Nitrophenol	<0.37		3.08	2.82		mg/Kg	☼	92	30 - 122	15	30
N-Nitrosodi-n-propylamine	<0.047		1.54	1.53		mg/Kg	☼	99	56 - 118	12	30

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: 500-192717-1 MSD

Client Sample ID: 3972-COV-11-B01 (0-3)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 578463

Prep Batch: 578372

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
N-Nitrosodiphenylamine	<0.045		1.54	1.43		mg/Kg	☼	93	65 - 112	2	30
2,2'-oxybis[1-chloropropane]	<0.045		1.54	1.65		mg/Kg	☼	107	40 - 124	10	30
Pentachlorophenol	<0.62	F1	3.08	<0.62	F1	mg/Kg	☼	0	13 - 112	NC	30
Phenanthrene	<0.0054		1.54	1.38		mg/Kg	☼	90	62 - 120	2	30
Phenol	<0.086		1.54	1.54		mg/Kg	☼	100	56 - 122	1	30
Pyrene	<0.0077		1.54	1.29		mg/Kg	☼	84	61 - 128	5	30
1,2,4-Trichlorobenzene	<0.042		1.54	1.35		mg/Kg	☼	88	66 - 117	4	30
2,4,5-Trichlorophenol	<0.088		1.54	1.50		mg/Kg	☼	97	50 - 120	4	30
2,4,6-Trichlorophenol	<0.13		1.54	1.35		mg/Kg	☼	88	57 - 120	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	96		43 - 145
2-Fluorophenol	103		31 - 166
Nitrobenzene-d5	99		37 - 147
Phenol-d5	100		30 - 153
Terphenyl-d14	88		42 - 157
2,4,6-Tribromophenol	88		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578212/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 579158

Prep Batch: 578212

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Barium	<0.11		1.0	0.11	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Copper	<0.28		1.0	0.28	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Iron	<10		20	10	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Lead	<0.23		0.50	0.23	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Magnesium	<5.0		10	5.0	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Calcium	<3.4		20	3.4	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Silver	<0.13		0.50	0.13	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Potassium	62.2		50	18	mg/Kg		12/23/20 07:37	12/30/20 08:36	1
Sodium	17.2	J	100	15	mg/Kg		12/23/20 07:37	12/30/20 08:36	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: LCS 500-578212/2-A
Matrix: Solid
Analysis Batch: 579158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.9		mg/Kg		94	80 - 120
Arsenic	10.0	10.4		mg/Kg		104	80 - 120
Barium	200	212		mg/Kg		106	80 - 120
Beryllium	5.00	5.26		mg/Kg		105	80 - 120
Cadmium	5.00	4.92		mg/Kg		98	80 - 120
Chromium	20.0	19.3		mg/Kg		96	80 - 120
Cobalt	50.0	50.8		mg/Kg		102	80 - 120
Copper	25.0	25.1		mg/Kg		101	80 - 120
Iron	100	106		mg/Kg		106	80 - 120
Lead	10.0	9.70		mg/Kg		97	80 - 120
Magnesium	1000	988		mg/Kg		99	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Manganese	50.0	50.2		mg/Kg		100	80 - 120
Nickel	50.0	50.5		mg/Kg		101	80 - 120
Selenium	10.0	9.50		mg/Kg		95	80 - 120
Silver	5.00	4.57		mg/Kg		91	80 - 120
Thallium	10.0	10.3		mg/Kg		103	80 - 120
Vanadium	50.0	49.8		mg/Kg		100	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120
Potassium	1000	1040		mg/Kg		104	80 - 120
Sodium	1000	1050		mg/Kg		105	80 - 120

Lab Sample ID: LCS 500-578797/2-A
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.498	J	mg/L		100	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Cadmium	0.0500	0.0517		mg/L		103	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.500	0.536		mg/L		107	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Iron	1.00	0.990		mg/L		99	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	9.37		mg/L		94	80 - 120
Calcium	10.0	9.99		mg/L		100	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.537		mg/L		107	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0537		mg/L		107	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120
Zinc	0.500	0.594		mg/L		119	80 - 120
Potassium	10.0	11.3		mg/L		113	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: LCS 500-578798/2-A
Matrix: Solid
Analysis Batch: 579009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.100		mg/L		100	80 - 120
Manganese	0.500	0.518		mg/L		104	80 - 120

Lab Sample ID: LB 500-578634/1-B
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578797

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Barium	<0.050		0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:31	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 22:31	1
Magnesium	<0.50		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1
Calcium	<0.50		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Potassium	<0.50		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1

Lab Sample ID: LB 500-578638/2-B
Matrix: Solid
Analysis Batch: 579009

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 578798

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:44	12/29/20 20:25	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 06:44	12/29/20 20:25	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-578797/2-A
Matrix: Solid
Analysis Batch: 578960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.484		mg/L		97	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

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

Lab Sample ID: LB 500-578634/1-B
 Matrix: Solid
 Analysis Batch: 578960

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 578797

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 14:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 14:49	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-578876/12-A
 Matrix: Solid
 Analysis Batch: 579109

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:40	1

Lab Sample ID: LCS 500-578876/14-A
 Matrix: Solid
 Analysis Batch: 579109

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00207		mg/L		103	80 - 120

Lab Sample ID: LB 500-578634/1-C
 Matrix: Solid
 Analysis Batch: 579109

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 578876

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:42	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578273/12-A
 Matrix: Solid
 Analysis Batch: 578504

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/23/20 13:40	12/24/20 09:27	1

Lab Sample ID: LCS 500-578273/13-A
 Matrix: Solid
 Analysis Batch: 578504

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.175		mg/Kg		105	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578315/1-A
 Matrix: Solid
 Analysis Batch: 578364

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.122	J	0.24	0.12	mg/Kg		12/23/20 12:32	12/23/20 14:04	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: HLCS 500-578315/2-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315
%Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	12.8		mg/Kg		106	90 - 110

Lab Sample ID: LCS 500-578315/3-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.73		mg/Kg		114	85 - 115

Lab Sample ID: LLCS 500-578315/4-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.49		mg/Kg		124	75 - 125



QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

GC/MS VOA

Prep Batch: 578173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	5035	
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 578187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	8260B	578173
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	8260B	578173
MB 500-578187/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578187/26	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578187/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	3541	
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	3541	
MB 500-578372/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578372/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-192717-1 MS	3972-COV-11-B01 (0-3)	Total/NA	Solid	3541	
500-192717-1 MSD	3972-COV-11-B01 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 578463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	8270D	578372
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	8270D	578372
MB 500-578372/1-A	Method Blank	Total/NA	Solid	8270D	578372
LCS 500-578372/2-A	Lab Control Sample	Total/NA	Solid	8270D	578372
500-192717-1 MS	3972-COV-11-B01 (0-3)	Total/NA	Solid	8270D	578372
500-192717-1 MSD	3972-COV-11-B01 (0-3)	Total/NA	Solid	8270D	578372

Metals

Prep Batch: 578212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	3050B	
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	3050B	
MB 500-578212/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578212/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 578273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	7471B	
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	7471B	
MB 500-578273/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578273/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 578504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	7471B	578273
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	7471B	578273
MB 500-578273/12-A	Method Blank	Total/NA	Solid	7471B	578273

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Metals (Continued)

Analysis Batch: 578504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-578273/13-A	Lab Control Sample	Total/NA	Solid	7471B	578273

Leach Batch: 578634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	TCLP	Solid	1311	
500-192717-2	3972-COV-11-B04 (0-3)	TCLP	Solid	1311	
LB 500-578634/1-B	Method Blank	TCLP	Solid	1311	
LB 500-578634/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 578638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	SPLP East	Solid	1312	
500-192717-2	3972-COV-11-B04 (0-3)	SPLP East	Solid	1312	
LB 500-578638/2-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 578797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	TCLP	Solid	3010A	578634
500-192717-2	3972-COV-11-B04 (0-3)	TCLP	Solid	3010A	578634
LB 500-578634/1-B	Method Blank	TCLP	Solid	3010A	578634
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 578798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	SPLP East	Solid	3010A	578638
500-192717-2	3972-COV-11-B04 (0-3)	SPLP East	Solid	3010A	578638
LB 500-578638/2-B	Method Blank	SPLP East	Solid	3010A	578638
LCS 500-578798/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 578876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	TCLP	Solid	7470A	578634
500-192717-2	3972-COV-11-B04 (0-3)	TCLP	Solid	7470A	578634
LB 500-578634/1-C	Method Blank	TCLP	Solid	7470A	578634
MB 500-578876/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-578876/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 578960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	TCLP	Solid	6020A	578797
500-192717-2	3972-COV-11-B04 (0-3)	TCLP	Solid	6020A	578797
LB 500-578634/1-B	Method Blank	TCLP	Solid	6020A	578797
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	6020A	578797

Analysis Batch: 579009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	SPLP East	Solid	6010B	578798
500-192717-2	3972-COV-11-B04 (0-3)	SPLP East	Solid	6010B	578798
LB 500-578638/2-B	Method Blank	SPLP East	Solid	6010B	578798
LCS 500-578798/2-A	Lab Control Sample	Total/NA	Solid	6010B	578798

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Metals

Analysis Batch: 579010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	TCLP	Solid	6010B	578797
500-192717-2	3972-COV-11-B04 (0-3)	TCLP	Solid	6010B	578797
LB 500-578634/1-B	Method Blank	TCLP	Solid	6010B	578797
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	6010B	578797

Analysis Batch: 579109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	TCLP	Solid	7470A	578876
500-192717-2	3972-COV-11-B04 (0-3)	TCLP	Solid	7470A	578876
LB 500-578634/1-C	Method Blank	TCLP	Solid	7470A	578876
MB 500-578876/12-A	Method Blank	Total/NA	Solid	7470A	578876
LCS 500-578876/14-A	Lab Control Sample	Total/NA	Solid	7470A	578876

Analysis Batch: 579158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	6010B	578212
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	6010B	578212
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	6010B	578212
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	6010B	578212
MB 500-578212/1-A	Method Blank	Total/NA	Solid	6010B	578212
LCS 500-578212/2-A	Lab Control Sample	Total/NA	Solid	6010B	578212

General Chemistry

Analysis Batch: 578009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	Moisture	
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	Moisture	
500-192717-1 DU	3972-COV-11-B01 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 578223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	9045D	
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	9045D	
LCS 500-578223/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578223/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	9010C	
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	9010C	
MB 500-578315/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578315/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578315/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578315/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192717-1	3972-COV-11-B01 (0-3)	Total/NA	Solid	9012B	578315
500-192717-2	3972-COV-11-B04 (0-3)	Total/NA	Solid	9012B	578315
MB 500-578315/1-A	Method Blank	Total/NA	Solid	9012B	578315

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

General Chemistry (Continued)

Analysis Batch: 578364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 500-578315/2-A	Lab Control Sample	Total/NA	Solid	9012B	578315
LCS 500-578315/3-A	Lab Control Sample	Total/NA	Solid	9012B	578315
LLCS 500-578315/4-A	Lab Control Sample	Total/NA	Solid	9012B	578315

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B01 (0-3)

Lab Sample ID: 500-192717-1

Date Collected: 12/17/20 12:55

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			578638	12/24/20 16:34	OAJ	TAL CHI
SPLP East	Prep	3010A			578798	12/29/20 06:44	LMN	TAL CHI
SPLP East	Analysis	6010B		1	579009	12/29/20 20:41	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6010B		1	579010	12/29/20 22:48	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6020A		1	578960	12/29/20 14:59	FXG	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	7470A			578876	12/29/20 09:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 07:57	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578223	12/22/20 21:34	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	578009	12/22/20 10:25	LWN	TAL CHI

Client Sample ID: 3972-COV-11-B01 (0-3)

Lab Sample ID: 500-192717-1

Date Collected: 12/17/20 12:55

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578173	12/18/20 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578187	12/23/20 17:57	JDD	TAL CHI
Total/NA	Prep	3541			578372	12/23/20 16:09	JP1	TAL CHI
Total/NA	Analysis	8270D		1	578463	12/24/20 12:31	SS	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579158	12/30/20 10:04	EEN	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579158	12/30/20 11:38	EEN	TAL CHI
Total/NA	Prep	7471B			578273	12/23/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578504	12/24/20 09:58	MJG	TAL CHI
Total/NA	Prep	9010C			578315	12/23/20 12:32	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578364	12/23/20 14:20	PSP	TAL CHI

Client Sample ID: 3972-COV-11-B04 (0-3)

Lab Sample ID: 500-192717-2

Date Collected: 12/17/20 12:25

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			578638	12/24/20 16:34	OAJ	TAL CHI
SPLP East	Prep	3010A			578798	12/29/20 06:44	LMN	TAL CHI
SPLP East	Analysis	6010B		1	579009	12/29/20 20:54	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6010B		1	579010	12/29/20 22:52	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Client Sample ID: 3972-COV-11-B04 (0-3)

Lab Sample ID: 500-192717-2

Date Collected: 12/17/20 12:25

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6020A		1	578960	12/29/20 15:01	FXG	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	7470A			578876	12/29/20 09:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 07:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578223	12/22/20 21:36	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	578009	12/22/20 10:25	LWN	TAL CHI

Client Sample ID: 3972-COV-11-B04 (0-3)

Lab Sample ID: 500-192717-2

Date Collected: 12/17/20 12:25

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578173	12/18/20 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578187	12/23/20 18:22	JDD	TAL CHI
Total/NA	Prep	3541			578372	12/23/20 16:09	JP1	TAL CHI
Total/NA	Analysis	8270D		1	578463	12/24/20 13:20	SS	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579158	12/30/20 10:08	EEN	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579158	12/30/20 11:42	EEN	TAL CHI
Total/NA	Prep	7471B			578273	12/23/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578504	12/24/20 10:00	MJG	TAL CHI
Total/NA	Prep	9010C			578315	12/23/20 12:32	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578364	12/23/20 14:25	PSP	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192717-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192717-1	3972-COV-11-B01 (0-3)	Solid	12/17/20 12:55	12/17/20 17:30	
500-192717-2	3972-COV-11-B04 (0-3)	Solid	12/17/20 12:25	12/17/20 17:30	

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Chain of Custody Record 457498 eurofins

Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: <u>Rich O'Brien</u>		Site Contact:		Date: <u>12/17/2020</u>		COC No:					
Company Name: <u>Terracon</u>		Tel/Email: <u>nath.w@terracon.com</u>		Lab Contact:		Carrier:		of <u>1</u> COCs					
Address: <u>192 Exchange Blvd</u>		Analysis Turnaround Time		 500-192717 COC		For Lab Use Only: Walk-in Client: Lab Sampling:		Sampler: <u>V. Coit</u>					
City/State/Zip: <u>Greenville Heights, IL</u>		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						Job / SDG No.:		<u>500-192717</u>			
Phone: <u>630-445-0160</u>		<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)		VOC's SVOC's Total B3 Inorganics/P4 TCC B3 Inorganics SP2 B3 Inorganics		Sample Specific Notes:	
Fax:													
Project Name: <u>11207011W</u>													
Site: <u>11207011W</u>													
P O #													

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC's	SVOC's	Total B3 Inorganics/P4	TCC B3 Inorganics	SP2 B3 Inorganics
1 3972-COU-11-Boil (U-3)	12/17/20	1255	G	Soil	6	N	N	X	X	X	X	X
2 3972-COU-11-Boil (U-3)	12/17/20	1225	G	Soil	6	N	N	X	X	X	X	X

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

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

Non-Hazardous Flammable Skin Irritant Poison B Unknown

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

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:
 * NO Aluminum * Hold SP2 B3 Inorganics per Terracon 3.4 Instructions → 012

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Therm ID No.: _____

Relinquished by: Kenneth Company: TERRACON Date/Time: 12/17/20 1605 Received by: J. Lee Company: EA Date/Time: 12/17/20 1605

Relinquished by: P. Neal Company: EA Date/Time: 12/17/20 1730 Received by: [Signature] Company: [Signature] Date/Time: _____

Relinquished by: _____ Company: _____ Date/Time: _____ Received in Laboratory by: [Signature] Company: [Signature] Date/Time: 12/18/20 0630

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192717-1

Login Number: 192717

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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	1.1,-0.2 SAMPLES NOT FROZEN
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-192921-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
1/8/2021 11:18:10 AM

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

LINKS

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www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Job ID: 500-192921-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192921-1

Receipt

The samples were received on 12/22/2020 5:22 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 3.5° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-579346 and 500-579532 and analytical batch 500-579995 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

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: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (0-7.5)

Lab Sample ID: 500-192921-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0078	J	0.037	0.0067	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.39	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.5		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	63		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.64		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		56	29	mg/Kg	5	✳	6010B	Total/NA
Lead	14		1.4	0.65	mg/Kg	5	✳	6010B	Total/NA
Magnesium	41000		28	14	mg/Kg	5	✳	6010B	Total/NA
Calcium	77000	B	56	9.5	mg/Kg	5	✳	6010B	Total/NA
Manganese	390		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	30		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	61		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	2800		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	1100		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	590		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	27		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.89		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-11-B02 (7.5-15)

Lab Sample ID: 500-192921-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzof[g,h,i]perylene	0.014	J	0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.018	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.021	J	0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.48	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	12		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	53		0.59	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.77		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	20		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	16		1.5	0.69	mg/Kg	5	✳	6010B	Total/NA
Magnesium	35000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	67000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Manganese	600		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	43		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.39	J	0.59	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	23		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15) (Continued)

Lab Sample ID: 500-192921-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	62		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	4000		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	500		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	90		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J B **	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.021		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-11-B02 (7.5-15) Dup

Lab Sample ID: 500-192921-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0091	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.020	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.39	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	14		1.4	0.63	mg/Kg	5	☼	6010B	Total/NA
Magnesium	32000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000	B	55	9.2	mg/Kg	5	☼	6010B	Total/NA
Manganese	390		0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	82		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.024		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-11-B03 (0-7)

Lab Sample ID: 500-192921-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.38	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (0-7) (Continued)

Lab Sample ID: 500-192921-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	66		0.53	0.060	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.62		0.21	0.049	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.034	J	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.26	0.069	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		11	5.5	mg/Kg	1	✳	6010B	Total/NA
Lead	14		1.3	0.61	mg/Kg	5	✳	6010B	Total/NA
Magnesium	31000		5.3	2.6	mg/Kg	1	✳	6010B	Total/NA
Calcium	74000	B	53	9.0	mg/Kg	5	✳	6010B	Total/NA
Manganese	330		0.53	0.077	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.50	J	0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.26	0.062	mg/Kg	1	✳	6010B	Total/NA
Zinc	64		1.1	0.46	mg/Kg	1	✳	6010B	Total/NA
Potassium	2600		26	9.3	mg/Kg	1	✳	6010B	Total/NA
Sodium	1500		53	7.8	mg/Kg	1	✳	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	730		25	2.5	mg/L	5		6010B	TCLP
Magnesium	25		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-11-B03 (7-13)

Lab Sample ID: 500-192921-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.023	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.037	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.021	J	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.48	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	53		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.76		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	16		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	29000		57	30	mg/Kg	5	✳	6010B	Total/NA
Lead	15		1.4	0.66	mg/Kg	5	✳	6010B	Total/NA
Magnesium	47000		28	14	mg/Kg	5	✳	6010B	Total/NA
Calcium	82000	B	57	9.6	mg/Kg	5	✳	6010B	Total/NA
Manganese	440		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	33		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	59		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Potassium	3600		28	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	190		57	8.4	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (7-13) (Continued)

Lab Sample ID: 500-192921-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J B **	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.029		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (0-7.5)

Lab Sample ID: 500-192921-1

Date Collected: 12/22/20 10:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0065		0.015	0.0065	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Bromomethane	<0.0014		0.0038	0.0014	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Carbon disulfide	<0.00078		0.0038	0.00078	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Carbon tetrachloride	<0.00044		0.0015	0.00044	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Chloroethane	<0.0011		0.0038	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Chloroform	<0.00052		0.0015	0.00052	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Chloromethane	<0.0015		0.0038	0.0015	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Dibromochloromethane	<0.00049		0.0015	0.00049	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
1,1-Dichloroethene	<0.00052		0.0015	0.00052	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
1,2-Dichloropropene	<0.00039		0.0015	0.00039	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
1,3-Dichloropropene, Total	<0.00053		0.0015	0.00053	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Ethylbenzene	<0.00072		0.0015	0.00072	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Methyl tert-butyl ether	<0.00044		0.0015	0.00044	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Tetrachloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
trans-1,2-Dichloroethene	<0.00066		0.0015	0.00066	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
trans-1,3-Dichloropropene	<0.00053		0.0015	0.00053	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
1,1,2-Trichloroethane	<0.00064		0.0015	0.00064	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Trichloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Vinyl chloride	<0.00066		0.0015	0.00066	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1
Xylenes, Total	<0.00048		0.0030	0.00048	mg/Kg	✳	12/23/20 17:29	12/31/20 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	12/23/20 17:29	12/31/20 15:21	1
Dibromofluoromethane	96		75 - 126	12/23/20 17:29	12/31/20 15:21	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	12/23/20 17:29	12/31/20 15:21	1
Toluene-d8 (Surr)	92		75 - 124	12/23/20 17:29	12/31/20 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0078	J	0.037	0.0067	mg/Kg	✳	12/30/20 07:24	12/30/20 20:23	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	✳	12/30/20 07:24	12/30/20 20:23	1
Anthracene	<0.0062		0.037	0.0062	mg/Kg	✳	12/30/20 07:24	12/30/20 20:23	1
Benzo[a]anthracene	<0.0050		0.037	0.0050	mg/Kg	✳	12/30/20 07:24	12/30/20 20:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (0-7.5)

Lab Sample ID: 500-192921-1

Date Collected: 12/22/20 10:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0072		0.037	0.0072	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Benzo[b]fluoranthene	<0.0080		0.037	0.0080	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
4-Chloroaniline	<0.18		0.75	0.18	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2,4-Dinitrophenol	<0.66		0.75	0.66	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2,6-Dinitrotoluene	<0.073		0.19	0.073	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Fluoranthene	<0.0069		0.037	0.0069	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Hexachlorobenzene	<0.0086		0.075	0.0086	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Hexachlorocyclopentadiene	<0.21		0.75	0.21	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.037	0.0097	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2-Methylnaphthalene	<0.0069		0.075	0.0069	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Nitrobenzene	<0.0093		0.037	0.0093	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2-Nitrophenol	<0.088		0.37	0.088	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (0-7.5)

Lab Sample ID: 500-192921-1

Date Collected: 12/22/20 10:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.75	0.35	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
N-Nitrosodi-n-propylamine	<0.046		0.075	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Pentachlorophenol	<0.60		0.75	0.60	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Phenanthrene	<0.0052		0.037	0.0052	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Pyrene	<0.0074		0.037	0.0074	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2,4,5-Trichlorophenol	<0.085		0.37	0.085	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		43 - 145				12/30/20 07:24	12/30/20 20:23	1
2-Fluorophenol	91		31 - 166				12/30/20 07:24	12/30/20 20:23	1
Nitrobenzene-d5	79		37 - 147				12/30/20 07:24	12/30/20 20:23	1
Phenol-d5	90		30 - 153				12/30/20 07:24	12/30/20 20:23	1
Terphenyl-d14	98		42 - 157				12/30/20 07:24	12/30/20 20:23	1
2,4,6-Tribromophenol	70		31 - 143				12/30/20 07:24	12/30/20 20:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.1	0.22	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Arsenic	7.5		0.56	0.19	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Barium	63		0.56	0.064	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Beryllium	0.64		0.22	0.052	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Cadmium	<0.020		0.11	0.020	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Chromium	17		0.56	0.28	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Cobalt	12		0.28	0.073	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Copper	22		0.56	0.16	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Iron	23000		56	29	mg/Kg	☼	12/30/20 06:38	01/05/21 20:12	5
Lead	14		1.4	0.65	mg/Kg	☼	12/30/20 06:38	01/05/21 20:12	5
Magnesium	41000		28	14	mg/Kg	☼	12/30/20 06:38	01/05/21 20:12	5
Calcium	77000	B	56	9.5	mg/Kg	☼	12/30/20 06:38	01/05/21 20:12	5
Manganese	390		0.56	0.081	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Nickel	30		0.56	0.16	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Silver	<0.072		0.28	0.072	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Vanadium	22		0.28	0.066	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Zinc	61		1.1	0.49	mg/Kg	☼	12/30/20 06:38	01/05/21 20:08	1
Potassium	2800		28	9.9	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1
Sodium	1100		56	8.3	mg/Kg	☼	12/30/20 06:38	01/04/21 18:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 22:17	1
Barium	0.60		0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:56	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 22:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (0-7.5)

Lab Sample ID: 500-192921-1

Date Collected: 12/22/20 10:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	590		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:56	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:17	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:17	1
Copper	0.018	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:17	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 22:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:45	1
Magnesium	27		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:56	1
Manganese	1.7		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:56	1
Nickel	0.012	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:17	1
Potassium	1.6	J	2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:56	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:45	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:17	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:17	1
Zinc	<0.020	*+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.89		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 02:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0062	mg/Kg	☼	12/30/20 13:05	12/31/20 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.27	0.13	mg/Kg	☼	12/29/20 14:12	12/29/20 16:14	1
pH	8.3		0.2	0.2	SU			12/28/20 18:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15)

Lab Sample ID: 500-192921-2

Date Collected: 12/22/20 10:35

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0068		0.016	0.0068	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
1,1-Dichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
1,2-Dichloropropene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	12/23/20 17:29	12/31/20 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	12/23/20 17:29	12/31/20 15:47	1
Dibromofluoromethane	101		75 - 126	12/23/20 17:29	12/31/20 15:47	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/23/20 17:29	12/31/20 15:47	1
Toluene-d8 (Surr)	93		75 - 124	12/23/20 17:29	12/31/20 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	12/30/20 07:24	12/30/20 20:50	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	12/30/20 07:24	12/30/20 20:50	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	12/30/20 07:24	12/30/20 20:50	1
Benzo[a]anthracene	<0.0052		0.039	0.0052	mg/Kg	☼	12/30/20 07:24	12/30/20 20:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15)

Lab Sample ID: 500-192921-2

Date Collected: 12/22/20 10:35

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0075		0.039	0.0075	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Benzo[b]fluoranthene	<0.0084		0.039	0.0084	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Benzo[g,h,i]perylene	0.014	J	0.039	0.013	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Carbazole	<0.097		0.20	0.097	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Chrysene	0.018	J	0.039	0.011	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Fluoranthene	<0.0072		0.039	0.0072	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Hexachlorobenzene	<0.0090		0.079	0.0090	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Isophorone	<0.044		0.20	0.044	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	✱	12/30/20 07:24	12/30/20 20:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15)

Lab Sample ID: 500-192921-2

Date Collected: 12/22/20 10:35

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
Pentachlorophenol	<0.62		0.79	0.62	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
Phenanthrene	0.021	J	0.039	0.0054	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
Phenol	<0.087		0.20	0.087	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
Pyrene	0.011	J	0.039	0.0077	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	✳	12/30/20 07:24	12/30/20 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		43 - 145				12/30/20 07:24	12/30/20 20:50	1
2-Fluorophenol	84		31 - 166				12/30/20 07:24	12/30/20 20:50	1
Nitrobenzene-d5	75		37 - 147				12/30/20 07:24	12/30/20 20:50	1
Phenol-d5	82		30 - 153				12/30/20 07:24	12/30/20 20:50	1
Terphenyl-d14	96		42 - 157				12/30/20 07:24	12/30/20 20:50	1
2,4,6-Tribromophenol	77		31 - 143				12/30/20 07:24	12/30/20 20:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.23	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Arsenic	12		0.59	0.20	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Barium	53		0.59	0.068	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Beryllium	0.77		0.24	0.056	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Cadmium	<0.021		0.12	0.021	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Chromium	20		0.59	0.29	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Cobalt	20		0.30	0.078	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Copper	24		0.59	0.17	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Iron	23000		12	6.2	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Lead	16		1.5	0.69	mg/Kg	✳	12/30/20 06:38	01/05/21 20:18	5
Magnesium	35000		5.9	2.9	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Calcium	67000	B	59	10	mg/Kg	✳	12/30/20 06:38	01/05/21 20:18	5
Manganese	600		0.59	0.086	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Nickel	43		0.59	0.17	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Selenium	<0.35		0.59	0.35	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Silver	<0.077		0.30	0.077	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Thallium	0.39	J	0.59	0.30	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Vanadium	23		0.30	0.070	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Zinc	62		1.2	0.52	mg/Kg	✳	12/30/20 06:38	01/05/21 20:15	1
Potassium	4000		30	11	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1
Sodium	500		59	8.8	mg/Kg	✳	12/30/20 06:38	01/04/21 18:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 22:21	1
Barium	0.53		0.50	0.050	mg/L		01/04/21 17:53	01/06/21 01:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 01:00	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 22:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15)

Lab Sample ID: 500-192921-2

Date Collected: 12/22/20 10:35

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	480		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 01:00	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:21	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:21	1
Copper	0.017	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:21	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 22:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:58	1
Magnesium	90		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:00	1
Manganese	1.1		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 01:00	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:21	1
Potassium	3.4		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:00	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:58	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:21	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:21	1
Zinc	0.021	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 02:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0063	mg/Kg	✱	12/30/20 13:05	12/31/20 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.25	0.12	mg/Kg	✱	12/29/20 14:12	12/29/20 16:16	1
pH	7.6		0.2	0.2	SU			12/28/20 18:14	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15) Dup

Lab Sample ID: 500-192921-3

Date Collected: 12/22/20 10:40

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0081		0.019	0.0081	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Benzene	<0.00047		0.0019	0.00047	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Bromoform	<0.00054		0.0019	0.00054	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
2-Butanone (MEK)	<0.0021		0.0046	0.0021	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Carbon disulfide	<0.00096		0.0046	0.00096	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Chlorobenzene	<0.00068		0.0019	0.00068	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Chloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Chloroform	<0.00064		0.0019	0.00064	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Chloromethane	<0.0019		0.0046	0.0019	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
1,1-Dichloroethane	<0.00063		0.0019	0.00063	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
1,2-Dichloropropene	<0.00048		0.0019	0.00048	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
1,3-Dichloropropene, Total	<0.00065		0.0019	0.00065	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Methyl tert-butyl ether	<0.00054		0.0019	0.00054	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0019	0.00059	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Tetrachloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
trans-1,2-Dichloroethene	<0.00082		0.0019	0.00082	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
trans-1,3-Dichloropropene	<0.00065		0.0019	0.00065	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
1,1,1-Trichloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
1,1,2-Trichloroethane	<0.00079		0.0019	0.00079	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Vinyl chloride	<0.00082		0.0019	0.00082	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	12/23/20 17:29	12/31/20 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	12/23/20 17:29	12/31/20 16:13	1
Dibromofluoromethane	101		75 - 126	12/23/20 17:29	12/31/20 16:13	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	12/23/20 17:29	12/31/20 16:13	1
Toluene-d8 (Surr)	95		75 - 124	12/23/20 17:29	12/31/20 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Benzo[a]anthracene	0.0091	J	0.039	0.0052	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15) Dup

Lab Sample ID: 500-192921-3

Date Collected: 12/22/20 10:40

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0075		0.039	0.0075	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Benzo[b]fluoranthene	<0.0084		0.039	0.0084	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Benzo[g,h,i]perylene	0.014	J	0.039	0.012	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Chrysene	0.013	J	0.039	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Dibenzofuran	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Fluoranthene	<0.0072		0.039	0.0072	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	12/30/20 07:24	12/30/20 21:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15) Dup

Lab Sample ID: 500-192921-3

Date Collected: 12/22/20 10:40

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
Phenanthrene	0.020	J	0.039	0.0054	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
Phenol	<0.086		0.20	0.086	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
Pyrene	0.012	J	0.039	0.0077	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	✳	12/30/20 07:24	12/30/20 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		43 - 145				12/30/20 07:24	12/30/20 21:17	1
2-Fluorophenol	72		31 - 166				12/30/20 07:24	12/30/20 21:17	1
Nitrobenzene-d5	63		37 - 147				12/30/20 07:24	12/30/20 21:17	1
Phenol-d5	74		30 - 153				12/30/20 07:24	12/30/20 21:17	1
Terphenyl-d14	90		42 - 157				12/30/20 07:24	12/30/20 21:17	1
2,4,6-Tribromophenol	67		31 - 143				12/30/20 07:24	12/30/20 21:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.1	0.21	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Arsenic	10		0.55	0.19	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Barium	40		0.55	0.062	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Beryllium	0.74		0.22	0.051	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Cadmium	<0.020		0.11	0.020	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Chromium	20		0.55	0.27	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Cobalt	12		0.27	0.071	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Copper	24		0.55	0.15	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Iron	22000		11	5.7	mg/Kg	✳	12/30/20 06:38	01/05/21 20:22	1
Lead	14		1.4	0.63	mg/Kg	✳	12/30/20 06:38	01/05/21 20:25	5
Magnesium	32000		5.5	2.7	mg/Kg	✳	12/30/20 06:38	01/05/21 20:22	1
Calcium	68000	B	55	9.2	mg/Kg	✳	12/30/20 06:38	01/05/21 20:25	5
Manganese	390		0.55	0.079	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Nickel	36		0.55	0.16	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Selenium	<0.32		0.55	0.32	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Silver	<0.070		0.27	0.070	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Thallium	0.41	J	0.55	0.27	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Vanadium	21		0.27	0.064	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Zinc	62		1.1	0.48	mg/Kg	✳	12/30/20 06:38	01/05/21 20:22	1
Potassium	3500		27	9.7	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1
Sodium	440		55	8.1	mg/Kg	✳	12/30/20 06:38	01/04/21 18:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 22:24	1
Barium	0.37	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 01:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 01:03	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 22:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15) Dup

Lab Sample ID: 500-192921-3

Date Collected: 12/22/20 10:40

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	480		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 01:03	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:24	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:24	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:24	1
Iron	0.21	J	0.40	0.20	mg/L		01/04/21 17:53	01/06/21 22:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 19:02	1
Magnesium	82		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:03	1
Manganese	0.99		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 01:03	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:24	1
Potassium	3.4		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:03	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 19:02	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:24	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:24	1
Zinc	<0.020	*+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 03:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0062	mg/Kg	☆	12/30/20 13:05	12/31/20 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☆	12/29/20 14:12	12/29/20 16:21	1
pH	7.7		0.2	0.2	SU			12/28/20 18:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (0-7)

Lab Sample ID: 500-192921-4

Date Collected: 12/22/20 09:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0063		0.015	0.0063	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Benzene	<0.00037		0.0015	0.00037	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Bromoform	<0.00042		0.0015	0.00042	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Bromomethane	<0.0014		0.0036	0.0014	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
2-Butanone (MEK)	<0.0016		0.0036	0.0016	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Carbon disulfide	<0.00076		0.0036	0.00076	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Carbon tetrachloride	<0.00042		0.0015	0.00042	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Chlorobenzene	<0.00054		0.0015	0.00054	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Chloroethane	<0.0011		0.0036	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Chloroform	<0.00050		0.0015	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Chloromethane	<0.0015		0.0036	0.0015	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
cis-1,2-Dichloroethene	<0.00041		0.0015	0.00041	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
cis-1,3-Dichloropropene	<0.00044		0.0015	0.00044	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Dibromochloromethane	<0.00048		0.0015	0.00048	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
1,1-Dichloroethane	<0.00050		0.0015	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
1,2-Dichloroethane	<0.0011		0.0036	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
1,1-Dichloroethene	<0.00050		0.0015	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
1,2-Dichloropropene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
1,3-Dichloropropene, Total	<0.00051		0.0015	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Ethylbenzene	<0.00070		0.0015	0.00070	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
2-Hexanone	<0.0011		0.0036	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Methylene Chloride	<0.0014		0.0036	0.0014	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0036	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Methyl tert-butyl ether	<0.00043		0.0015	0.00043	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Styrene	<0.00044		0.0015	0.00044	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
1,1,2,2-Tetrachloroethane	<0.00046		0.0015	0.00046	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Tetrachloroethene	<0.00050		0.0015	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Toluene	<0.00037		0.0015	0.00037	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
trans-1,2-Dichloroethene	<0.00064		0.0015	0.00064	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
trans-1,3-Dichloropropene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
1,1,1-Trichloroethane	<0.00049		0.0015	0.00049	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
1,1,2-Trichloroethane	<0.00062		0.0015	0.00062	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Trichloroethene	<0.00049		0.0015	0.00049	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Vinyl acetate	<0.0013		0.0036	0.0013	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Vinyl chloride	<0.00064		0.0015	0.00064	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1
Xylenes, Total	<0.00047		0.0029	0.00047	mg/Kg	✳	12/23/20 17:29	12/31/20 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	12/23/20 17:29	12/31/20 16:39	1
Dibromofluoromethane	104		75 - 126	12/23/20 17:29	12/31/20 16:39	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	12/23/20 17:29	12/31/20 16:39	1
Toluene-d8 (Surr)	89		75 - 124	12/23/20 17:29	12/31/20 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	✳	12/30/20 07:24	12/30/20 21:44	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	✳	12/30/20 07:24	12/30/20 21:44	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	✳	12/30/20 07:24	12/30/20 21:44	1
Benzo[a]anthracene	<0.0050		0.037	0.0050	mg/Kg	✳	12/30/20 07:24	12/30/20 21:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (0-7)

Lab Sample ID: 500-192921-4

Date Collected: 12/22/20 09:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0073		0.037	0.0073	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Fluoranthene	<0.0070		0.037	0.0070	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.037	0.0097	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☆	12/30/20 07:24	12/30/20 21:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (0-7)

Lab Sample ID: 500-192921-4

Date Collected: 12/22/20 09:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
Phenanthrene	<0.0052		0.037	0.0052	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
Pyrene	<0.0075		0.037	0.0075	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		43 - 145	12/30/20 07:24	12/30/20 21:44	1
2-Fluorophenol	76		31 - 166	12/30/20 07:24	12/30/20 21:44	1
Nitrobenzene-d5	64		37 - 147	12/30/20 07:24	12/30/20 21:44	1
Phenol-d5	78		30 - 153	12/30/20 07:24	12/30/20 21:44	1
Terphenyl-d14	94		42 - 157	12/30/20 07:24	12/30/20 21:44	1
2,4,6-Tribromophenol	70		31 - 143	12/30/20 07:24	12/30/20 21:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.1	0.21	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Arsenic	7.1		0.53	0.18	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Barium	66		0.53	0.060	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Beryllium	0.62		0.21	0.049	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Cadmium	0.034	J	0.11	0.019	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Chromium	17		0.53	0.26	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Cobalt	10		0.26	0.069	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Copper	21		0.53	0.15	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Iron	19000		11	5.5	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Lead	14		1.3	0.61	mg/Kg	☼	12/30/20 06:38	01/05/21 20:32	5
Magnesium	31000		5.3	2.6	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Calcium	74000	B	53	9.0	mg/Kg	☼	12/30/20 06:38	01/05/21 20:32	5
Manganese	330		0.53	0.077	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Nickel	29		0.53	0.15	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Selenium	<0.31		0.53	0.31	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Silver	<0.068		0.26	0.068	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Thallium	0.50	J	0.53	0.26	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Vanadium	20		0.26	0.062	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Zinc	64		1.1	0.46	mg/Kg	☼	12/30/20 06:38	01/05/21 20:29	1
Potassium	2600		26	9.3	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1
Sodium	1500		53	7.8	mg/Kg	☼	12/30/20 06:38	01/04/21 18:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 22:27	1
Barium	0.49	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 01:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 01:07	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 22:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (0-7)

Lab Sample ID: 500-192921-4

Date Collected: 12/22/20 09:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	730		25	2.5	mg/L		01/04/21 17:53	01/06/21 22:31	5
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:27	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:27	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:27	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 22:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 19:05	1
Magnesium	25		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:07	1
Manganese	0.42		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 01:07	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:27	1
Potassium	1.9 J		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:07	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 19:05	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:27	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:27	1
Zinc	<0.020	*+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.76		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 03:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0061	mg/Kg	☼	12/30/20 13:05	12/31/20 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☼	12/29/20 14:12	12/29/20 16:22	1
pH	8.2		0.2	0.2	SU			12/28/20 18:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (7-13)

Lab Sample ID: 500-192921-5

Date Collected: 12/22/20 09:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0073		0.017	0.0073	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Carbon disulfide	<0.00088		0.0042	0.00088	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Chloroethane	<0.0012		0.0042	0.0012	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Chloroform	<0.00059		0.0017	0.00059	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
1,3-Dichloropropene, Total	<0.00059		0.0017	0.00059	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Ethylbenzene	<0.00081		0.0017	0.00081	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Methylene Chloride	<0.0017		0.0042	0.0017	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
trans-1,2-Dichloroethene	<0.00075		0.0017	0.00075	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
1,1,1-Trichloroethane	<0.00057		0.0017	0.00057	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Vinyl chloride	<0.00075		0.0017	0.00075	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	✳	12/23/20 17:29	12/31/20 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	12/23/20 17:29	12/31/20 17:04	1
Dibromofluoromethane	102		75 - 126	12/23/20 17:29	12/31/20 17:04	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	12/23/20 17:29	12/31/20 17:04	1
Toluene-d8 (Surr)	93		75 - 124	12/23/20 17:29	12/31/20 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (7-13)

Lab Sample ID: 500-192921-5

Date Collected: 12/22/20 09:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0074		0.038	0.0074	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Benzo[b]fluoranthene	<0.0083		0.038	0.0083	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Chrysene	0.023	J	0.038	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2,4-Dinitrophenol	<0.68		0.77	0.68	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Fluoranthene	<0.0071		0.038	0.0071	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Indeno[1,2,3-cd]pyrene	<0.0099		0.038	0.0099	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2-Methylnaphthalene	<0.0071		0.077	0.0071	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	12/30/20 07:24	12/30/20 22:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (7-13)

Lab Sample ID: 500-192921-5

Date Collected: 12/22/20 09:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
Pentachlorophenol	<0.62		0.77	0.62	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
Phenanthrene	0.037	J	0.038	0.0053	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
Phenol	<0.085		0.19	0.085	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
Pyrene	0.021	J	0.038	0.0076	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	✳	12/30/20 07:24	12/30/20 22:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		43 - 145				12/30/20 07:24	12/30/20 22:10	1
2-Fluorophenol	86		31 - 166				12/30/20 07:24	12/30/20 22:10	1
Nitrobenzene-d5	77		37 - 147				12/30/20 07:24	12/30/20 22:10	1
Phenol-d5	84		30 - 153				12/30/20 07:24	12/30/20 22:10	1
Terphenyl-d14	98		42 - 157				12/30/20 07:24	12/30/20 22:10	1
2,4,6-Tribromophenol	83		31 - 143				12/30/20 07:24	12/30/20 22:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.22	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Arsenic	10		0.57	0.19	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Barium	53		0.57	0.065	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Beryllium	0.76		0.23	0.053	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Cadmium	<0.020		0.11	0.020	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Chromium	19		0.57	0.28	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Cobalt	16		0.28	0.074	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Copper	23		0.57	0.16	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Iron	29000		57	30	mg/Kg	✳	12/30/20 06:38	01/05/21 20:49	5
Lead	15		1.4	0.66	mg/Kg	✳	12/30/20 06:38	01/05/21 20:49	5
Magnesium	47000		28	14	mg/Kg	✳	12/30/20 06:38	01/05/21 20:49	5
Calcium	82000	B	57	9.6	mg/Kg	✳	12/30/20 06:38	01/05/21 20:49	5
Manganese	440		0.57	0.082	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Nickel	33		0.57	0.17	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Selenium	<0.33		0.57	0.33	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Silver	<0.073		0.28	0.073	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Thallium	<0.28		0.57	0.28	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Vanadium	21		0.28	0.067	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Zinc	59		1.1	0.50	mg/Kg	✳	12/30/20 06:38	01/05/21 20:36	1
Potassium	3600		28	10	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1
Sodium	190		57	8.4	mg/Kg	✳	12/30/20 06:38	01/04/21 18:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 22:34	1
Barium	0.67		0.50	0.050	mg/L		01/04/21 17:53	01/06/21 01:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 01:10	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 22:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (7-13)

Lab Sample ID: 500-192921-5

Date Collected: 12/22/20 09:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 01:10	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:34	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:34	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:34	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 22:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 19:12	1
Magnesium	120		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:10	1
Manganese	1.5		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 01:10	1
Nickel	0.011	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:34	1
Potassium	1.8	J	2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:10	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 19:12	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:34	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:34	1
Zinc	0.13	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 22:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 03:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0064	mg/Kg	✱	12/30/20 13:05	12/31/20 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	✱	12/29/20 14:12	12/29/20 16:24	1
pH	7.9		0.2	0.2	SU			12/28/20 18:22	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192921-1	3972-COV-11-B02 (0-7.5)	90	96	87	92
500-192921-2	3972-COV-11-B02 (7.5-15)	92	101	91	93
500-192921-3	3972-COV-11-B02 (7.5-15)	92	101	90	95
	Dup				
500-192921-4	3972-COV-11-B03 (0-7)	87	104	94	89
500-192921-5	3972-COV-11-B03 (7-13)	88	102	93	93
LCS 500-579222/4	Lab Control Sample	87	88	76	96
LCS 500-579222/5	Lab Control Sample Dup	89	90	77	94
MB 500-579222/7	Method Blank	93	96	84	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192921-1	3972-COV-11-B02 (0-7.5)	73	91	79	90	98	70
500-192921-2	3972-COV-11-B02 (7.5-15)	78	84	75	82	96	77
500-192921-3	3972-COV-11-B02 (7.5-15)	66	72	63	74	90	67
	Dup						
500-192921-4	3972-COV-11-B03 (0-7)	68	76	64	78	94	70
500-192921-5	3972-COV-11-B03 (7-13)	83	86	77	84	98	83
LCS 500-579030/2-A	Lab Control Sample	93	102	91	91	85	112
MB 500-579030/1-A	Method Blank	85	105	89	85	87	97

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Lab Sample ID: MB 500-579222/7

Matrix: Solid

Analysis Batch: 579222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/31/20 11:07	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/31/20 11:07	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/31/20 11:07	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/31/20 11:07	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/31/20 11:07	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/31/20 11:07	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/31/20 11:07	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/31/20 11:07	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/31/20 11:07	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/31/20 11:07	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/31/20 11:07	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/31/20 11:07	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/31/20 11:07	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/31/20 11:07	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/31/20 11:07	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/31/20 11:07	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/31/20 11:07	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/31/20 11:07	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/31/20 11:07	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/31/20 11:07	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/31/20 11:07	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/31/20 11:07	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/31/20 11:07	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/31/20 11:07	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/31/20 11:07	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/31/20 11:07	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/31/20 11:07	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/31/20 11:07	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/31/20 11:07	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/31/20 11:07	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/31/20 11:07	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/31/20 11:07	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/31/20 11:07	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/31/20 11:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		75 - 131		12/31/20 11:07	1
Dibromofluoromethane	96		75 - 126		12/31/20 11:07	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		12/31/20 11:07	1
Toluene-d8 (Surr)	91		75 - 124		12/31/20 11:07	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Lab Sample ID: LCS 500-579222/4

Matrix: Solid

Analysis Batch: 579222

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	0.0413		mg/Kg		83	40 - 150
Benzene	0.0500	0.0499		mg/Kg		100	70 - 125
Bromodichloromethane	0.0500	0.0446		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0444		mg/Kg		89	68 - 136
Bromomethane	0.0500	0.0411		mg/Kg		82	70 - 130
2-Butanone (MEK)	0.0500	0.0312		mg/Kg		62	47 - 138
Carbon disulfide	0.0500	0.0533		mg/Kg		107	70 - 129
Carbon tetrachloride	0.0500	0.0528		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0505		mg/Kg		101	50 - 150
Chloroethane	0.0500	0.0537		mg/Kg		107	75 - 125
Chloroform	0.0500	0.0464		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0458		mg/Kg		92	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0398		mg/Kg		80	70 - 125
Dibromochloromethane	0.0500	0.0480		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0555		mg/Kg		111	70 - 125
1,2-Dichloroethane	0.0500	0.0410		mg/Kg		82	70 - 130
1,1-Dichloroethene	0.0500	0.0519		mg/Kg		104	70 - 120
1,2-Dichloropropane	0.0500	0.0515		mg/Kg		103	70 - 125
Ethylbenzene	0.0500	0.0529		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0338		mg/Kg		68	48 - 146
Methylene Chloride	0.0500	0.0455		mg/Kg		91	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0321		mg/Kg		64	50 - 148
Methyl tert-butyl ether	0.0500	0.0362		mg/Kg		72	50 - 140
Styrene	0.0500	0.0502		mg/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0390		mg/Kg		78	70 - 122
Tetrachloroethene	0.0500	0.0526		mg/Kg		105	70 - 124
Toluene	0.0500	0.0517		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0526		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0376		mg/Kg		75	70 - 125
1,1,1-Trichloroethane	0.0500	0.0495		mg/Kg		99	70 - 128
1,1,2-Trichloroethane	0.0500	0.0432		mg/Kg		86	70 - 125
Trichloroethene	0.0500	0.0532		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0286		mg/Kg		57	40 - 153
Vinyl chloride	0.0500	0.0528		mg/Kg		106	70 - 125
Xylenes, Total	0.100	0.0976		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	87		75 - 131
Dibromofluoromethane	88		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Lab Sample ID: LCSD 500-579222/5
Matrix: Solid
Analysis Batch: 579222

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	0.0382		mg/Kg		76	40 - 150	8	30
Benzene	0.0500	0.0520		mg/Kg		104	70 - 125	4	30
Bromodichloromethane	0.0500	0.0468		mg/Kg		94	67 - 129	5	30
Bromoform	0.0500	0.0482		mg/Kg		96	68 - 136	8	30
Bromomethane	0.0500	0.0395		mg/Kg		79	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0323		mg/Kg		65	47 - 138	4	30
Carbon disulfide	0.0500	0.0548		mg/Kg		110	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0551		mg/Kg		110	75 - 125	4	30
Chlorobenzene	0.0500	0.0531		mg/Kg		106	50 - 150	5	30
Chloroethane	0.0500	0.0529		mg/Kg		106	75 - 125	2	30
Chloroform	0.0500	0.0485		mg/Kg		97	57 - 135	4	30
Chloromethane	0.0500	0.0446		mg/Kg		89	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0426		mg/Kg		85	70 - 125	7	30
Dibromochloromethane	0.0500	0.0508		mg/Kg		102	69 - 125	6	30
1,1-Dichloroethane	0.0500	0.0575		mg/Kg		115	70 - 125	4	30
1,2-Dichloroethane	0.0500	0.0443		mg/Kg		89	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0538		mg/Kg		108	70 - 120	3	30
1,2-Dichloropropane	0.0500	0.0552		mg/Kg		110	70 - 125	7	30
Ethylbenzene	0.0500	0.0554		mg/Kg		111	61 - 136	5	30
2-Hexanone	0.0500	0.0362		mg/Kg		72	48 - 146	7	30
Methylene Chloride	0.0500	0.0466		mg/Kg		93	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0337		mg/Kg		67	50 - 148	5	30
Methyl tert-butyl ether	0.0500	0.0380		mg/Kg		76	50 - 140	5	30
Styrene	0.0500	0.0521		mg/Kg		104	70 - 125	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0419		mg/Kg		84	70 - 122	7	30
Tetrachloroethene	0.0500	0.0546		mg/Kg		109	70 - 124	4	30
Toluene	0.0500	0.0531		mg/Kg		106	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0410		mg/Kg		82	70 - 125	9	30
1,1,1-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 125	8	30
Trichloroethene	0.0500	0.0561		mg/Kg		112	70 - 125	5	30
Vinyl acetate	0.0500	0.0311		mg/Kg		62	40 - 153	8	30
Vinyl chloride	0.0500	0.0508		mg/Kg		102	70 - 125	4	30
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Lab Sample ID: MB 500-579030/1-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579030

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Lab Sample ID: MB 500-579030/1-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	12/30/20 07:24	12/30/20 19:14	1
2-Fluorophenol	105		31 - 166	12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene-d5	89		37 - 147	12/30/20 07:24	12/30/20 19:14	1
Phenol-d5	85		30 - 153	12/30/20 07:24	12/30/20 19:14	1
Terphenyl-d14	87		42 - 157	12/30/20 07:24	12/30/20 19:14	1
2,4,6-Tribromophenol	97		31 - 143	12/30/20 07:24	12/30/20 19:14	1

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124
Acenaphthylene	1.33	1.22		mg/Kg		91	68 - 120
Anthracene	1.33	1.12		mg/Kg		84	70 - 114
Benzo[a]anthracene	1.33	1.08		mg/Kg		81	67 - 122
Benzo[a]pyrene	1.33	1.26		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	69 - 129
Benzo[g,h,i]perylene	1.33	1.41		mg/Kg		106	72 - 131
Benzo[k]fluoranthene	1.33	1.25		mg/Kg		94	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.21		mg/Kg		90	60 - 112
Bis(2-chloroethyl)ether	1.33	1.19		mg/Kg		89	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.11		mg/Kg		83	72 - 131
4-Bromophenyl phenyl ether	1.33	1.23		mg/Kg		92	68 - 118
Butyl benzyl phthalate	1.33	1.08		mg/Kg		81	71 - 129
Carbazole	1.33	1.29		mg/Kg		97	65 - 142
4-Chloroaniline	1.33	1.10		mg/Kg		82	30 - 150
4-Chloro-3-methylphenol	1.33	1.35		mg/Kg		101	65 - 122
2-Chloronaphthalene	1.33	1.20		mg/Kg		90	69 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Lab Sample ID: LCS 500-579030/2-A

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.24		mg/Kg		93	66 - 115
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	65 - 124
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.925		mg/Kg		69	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.06		mg/Kg		79	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		94	69 - 116
Di-n-butyl phthalate	1.33	1.14		mg/Kg		86	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.24		mg/Kg		47	10 - 110
2,4-Dinitrophenol	2.67	0.795		mg/Kg		30	10 - 100
2,4-Dinitrotoluene	1.33	1.29		mg/Kg		97	69 - 124
2,6-Dinitrotoluene	1.33	1.28		mg/Kg		96	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.18		mg/Kg		88	62 - 120
Fluorene	1.33	1.21		mg/Kg		90	62 - 120
Hexachlorobenzene	1.33	1.39		mg/Kg		104	63 - 124
Hexachlorobutadiene	1.33	1.43		mg/Kg		107	56 - 120
Hexachlorocyclopentadiene	1.33	0.506	J	mg/Kg		38	10 - 133
Hexachloroethane	1.33	1.21		mg/Kg		91	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.38		mg/Kg		104	68 - 130
Isophorone	1.33	1.23		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.18		mg/Kg		89	69 - 112
2-Methylphenol	1.33	1.44		mg/Kg		108	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		95	57 - 120
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
3-Nitroaniline	1.33	1.02		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.08		mg/Kg		81	60 - 160
Nitrobenzene	1.33	1.24		mg/Kg		93	60 - 116
2-Nitrophenol	1.33	1.18		mg/Kg		88	60 - 120
4-Nitrophenol	2.67	2.95		mg/Kg		110	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	56 - 118
N-Nitrosodiphenylamine	1.33	1.14		mg/Kg		85	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.07		mg/Kg		80	40 - 124
Pentachlorophenol	2.67	1.69		mg/Kg		63	13 - 112
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Phenol	1.33	1.17		mg/Kg		88	56 - 122
Pyrene	1.33	1.06		mg/Kg		80	61 - 128
1,2,4-Trichlorobenzene	1.33	1.27		mg/Kg		96	66 - 117
2,4,5-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		94	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	93		43 - 145
2-Fluorophenol	102		31 - 166
Nitrobenzene-d5	91		37 - 147
Phenol-d5	91		30 - 153
Terphenyl-d14	85		42 - 157
2,4,6-Tribromophenol	112		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-579019/1-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579019

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Barium	<0.11		1.0	0.11	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Copper	<0.28		1.0	0.28	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Iron	<10		20	10	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Lead	<0.23		0.50	0.23	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Magnesium	<5.0		10	5.0	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Calcium	12.9	J	20	3.4	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Silver	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Potassium	<18		50	18	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Sodium	<15		100	15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1

Lab Sample ID: LCS 500-579019/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579019

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	44.3		mg/Kg		89		80 - 120
Arsenic	10.0	9.74		mg/Kg		97		80 - 120
Barium	200	198		mg/Kg		99		80 - 120
Beryllium	5.00	4.95		mg/Kg		99		80 - 120
Cadmium	5.00	4.75		mg/Kg		95		80 - 120
Chromium	20.0	19.9		mg/Kg		100		80 - 120
Cobalt	50.0	50.7		mg/Kg		101		80 - 120
Copper	25.0	24.6		mg/Kg		99		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Lab Sample ID: LCS 500-579019/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.83		mg/Kg		98	80 - 120
Magnesium	1000	994		mg/Kg		99	80 - 120
Calcium	1000	1030		mg/Kg		103	80 - 120
Manganese	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	50.0		mg/Kg		100	80 - 120
Selenium	10.0	8.85		mg/Kg		89	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Thallium	10.0	9.95		mg/Kg		100	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	49.6		mg/Kg		99	80 - 120
Potassium	1000	965		mg/Kg		97	80 - 120
Sodium	1000	984		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Nickel	0.500	0.541		mg/L		108	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Zinc	0.500	0.606	*+	mg/L		121	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

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

Lab Sample ID: LCS 500-579535/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579535
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.491		mg/L		98	80 - 120

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.050		0.50	0.050	mg/L		01/04/21 17:53	01/05/21 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/05/21 23:59	1
Magnesium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Calcium	<0.50		5.0	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/05/21 23:59	1
Potassium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:27	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Zinc	0.0239	J	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:27	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 17:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 17:55	1

Lab Sample ID: LB 500-579349/1-B
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579535

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 01:52	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.492		mg/L		98	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:39	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579477/12-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:01	1

Lab Sample ID: LCS 500-579477/14-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-579346/1-B
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579477

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:03	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-579093/12-A
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/30/20 13:05	12/31/20 08:17	1

Lab Sample ID: LCS 500-579093/13-A
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578930/1-A
Matrix: Solid
Analysis Batch: 579127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/29/20 14:12	12/29/20 16:00	1

Lab Sample ID: HLCS 500-578930/2-A
Matrix: Solid
Analysis Batch: 579127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578930

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	11.4		mg/Kg		95	90 - 110

Lab Sample ID: LCS 500-578930/3-A
Matrix: Solid
Analysis Batch: 579127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578930

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.70		mg/Kg		113	85 - 115

Lab Sample ID: LLCS 500-578930/4-A
Matrix: Solid
Analysis Batch: 579127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578930

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.35		mg/Kg		113	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

GC/MS VOA

Prep Batch: 578788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	5035	
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	5035	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	5035	
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	5035	
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	5035	

Analysis Batch: 579222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	8260B	578788
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	8260B	578788
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	8260B	578788
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	8260B	578788
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	8260B	578788
MB 500-579222/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-579222/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-579222/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 579030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	3541	
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	3541	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	3541	
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	3541	
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	3541	
MB 500-579030/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 579167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-579030/1-A	Method Blank	Total/NA	Solid	8270D	579030
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	8270D	579030

Analysis Batch: 579196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	8270D	579030
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	8270D	579030
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	8270D	579030
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	8270D	579030
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	8270D	579030

Metals

Prep Batch: 579019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	3050B	
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	3050B	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	3050B	
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	3050B	
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	3050B	
MB 500-579019/1-A	Method Blank	Total/NA	Solid	3050B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Metals (Continued)

Prep Batch: 579019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 579093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	7471B	
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	7471B	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	7471B	
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	7471B	
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	7471B	
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 579294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	7471B	579093
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	7471B	579093
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	7471B	579093
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	7471B	579093
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	7471B	579093
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	579093
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	579093

Leach Batch: 579346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	TCLP	Solid	1311	
500-192921-2	3972-COV-11-B02 (7.5-15)	TCLP	Solid	1311	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	TCLP	Solid	1311	
500-192921-4	3972-COV-11-B03 (0-7)	TCLP	Solid	1311	
500-192921-5	3972-COV-11-B03 (7-13)	TCLP	Solid	1311	
LB 500-579346/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579346/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 579349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	SPLP East	Solid	1312	
500-192921-2	3972-COV-11-B02 (7.5-15)	SPLP East	Solid	1312	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	SPLP East	Solid	1312	
500-192921-4	3972-COV-11-B03 (0-7)	SPLP East	Solid	1312	
500-192921-5	3972-COV-11-B03 (7-13)	SPLP East	Solid	1312	
LB 500-579349/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 579477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	TCLP	Solid	7470A	579346
500-192921-2	3972-COV-11-B02 (7.5-15)	TCLP	Solid	7470A	579346
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	TCLP	Solid	7470A	579346
500-192921-4	3972-COV-11-B03 (0-7)	TCLP	Solid	7470A	579346
500-192921-5	3972-COV-11-B03 (7-13)	TCLP	Solid	7470A	579346
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579346
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Metals

Prep Batch: 579532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	TCLP	Solid	3010A	579346
500-192921-2	3972-COV-11-B02 (7.5-15)	TCLP	Solid	3010A	579346
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	TCLP	Solid	3010A	579346
500-192921-4	3972-COV-11-B03 (0-7)	TCLP	Solid	3010A	579346
500-192921-5	3972-COV-11-B03 (7-13)	TCLP	Solid	3010A	579346
LB 500-579346/1-C	Method Blank	TCLP	Solid	3010A	579346
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 579535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	SPLP East	Solid	3010A	579349
500-192921-2	3972-COV-11-B02 (7.5-15)	SPLP East	Solid	3010A	579349
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	SPLP East	Solid	3010A	579349
500-192921-4	3972-COV-11-B03 (0-7)	SPLP East	Solid	3010A	579349
500-192921-5	3972-COV-11-B03 (7-13)	SPLP East	Solid	3010A	579349
LB 500-579349/1-B	Method Blank	SPLP East	Solid	3010A	579349
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	6010B	579019
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	6010B	579019
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	6010B	579019
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	6010B	579019
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	6010B	579019
MB 500-579019/1-A	Method Blank	Total/NA	Solid	6010B	579019
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	6010B	579019

Analysis Batch: 579681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	TCLP	Solid	7470A	579477
500-192921-2	3972-COV-11-B02 (7.5-15)	TCLP	Solid	7470A	579477
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	TCLP	Solid	7470A	579477
500-192921-4	3972-COV-11-B03 (0-7)	TCLP	Solid	7470A	579477
500-192921-5	3972-COV-11-B03 (7-13)	TCLP	Solid	7470A	579477
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579477
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	579477
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	579477

Analysis Batch: 579700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	TCLP	Solid	6020A	579532
500-192921-2	3972-COV-11-B02 (7.5-15)	TCLP	Solid	6020A	579532
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	TCLP	Solid	6020A	579532
500-192921-4	3972-COV-11-B03 (0-7)	TCLP	Solid	6020A	579532
500-192921-5	3972-COV-11-B03 (7-13)	TCLP	Solid	6020A	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6020A	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6020A	579532

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Metals

Analysis Batch: 579796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	6010B	579019
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	6010B	579019
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	6010B	579019
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	6010B	579019
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	6010B	579019
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	6010B	579019
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	6010B	579019
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	6010B	579019
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	6010B	579019
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	6010B	579019

Analysis Batch: 579797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	SPLP East	Solid	6010B	579535
500-192921-1	3972-COV-11-B02 (0-7.5)	TCLP	Solid	6010B	579532
500-192921-2	3972-COV-11-B02 (7.5-15)	SPLP East	Solid	6010B	579535
500-192921-2	3972-COV-11-B02 (7.5-15)	TCLP	Solid	6010B	579532
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	SPLP East	Solid	6010B	579535
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	TCLP	Solid	6010B	579532
500-192921-4	3972-COV-11-B03 (0-7)	SPLP East	Solid	6010B	579535
500-192921-4	3972-COV-11-B03 (0-7)	TCLP	Solid	6010B	579532
500-192921-5	3972-COV-11-B03 (7-13)	SPLP East	Solid	6010B	579535
500-192921-5	3972-COV-11-B03 (7-13)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LB 500-579349/1-B	Method Blank	SPLP East	Solid	6010B	579535
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	6010B	579535

Analysis Batch: 579995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	TCLP	Solid	6010B	579532
500-192921-2	3972-COV-11-B02 (7.5-15)	TCLP	Solid	6010B	579532
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	TCLP	Solid	6010B	579532
500-192921-4	3972-COV-11-B03 (0-7)	TCLP	Solid	6010B	579532
500-192921-4	3972-COV-11-B03 (0-7)	TCLP	Solid	6010B	579532
500-192921-5	3972-COV-11-B03 (7-13)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Analysis Batch: 580182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	TCLP	Solid	6010B	579532
500-192921-2	3972-COV-11-B02 (7.5-15)	TCLP	Solid	6010B	579532
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	TCLP	Solid	6010B	579532
500-192921-4	3972-COV-11-B03 (0-7)	TCLP	Solid	6010B	579532
500-192921-5	3972-COV-11-B03 (7-13)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

General Chemistry

Analysis Batch: 578696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	Moisture	
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	Moisture	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	Moisture	
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	Moisture	
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	Moisture	
500-192921-4 DU	3972-COV-11-B03 (0-7)	Total/NA	Solid	Moisture	

Analysis Batch: 578810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	9045D	
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	9045D	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	9045D	
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	9045D	
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	9045D	
LCS 500-578810/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578810/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	9010C	
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	9010C	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	9010C	
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	9010C	
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	9010C	
MB 500-578930/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578930/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578930/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578930/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 579127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192921-1	3972-COV-11-B02 (0-7.5)	Total/NA	Solid	9012B	578930
500-192921-2	3972-COV-11-B02 (7.5-15)	Total/NA	Solid	9012B	578930
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Total/NA	Solid	9012B	578930
500-192921-4	3972-COV-11-B03 (0-7)	Total/NA	Solid	9012B	578930
500-192921-5	3972-COV-11-B03 (7-13)	Total/NA	Solid	9012B	578930
MB 500-578930/1-A	Method Blank	Total/NA	Solid	9012B	578930
HLCS 500-578930/2-A	Lab Control Sample	Total/NA	Solid	9012B	578930
LCS 500-578930/3-A	Lab Control Sample	Total/NA	Solid	9012B	578930
LLCS 500-578930/4-A	Lab Control Sample	Total/NA	Solid	9012B	578930

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (0-7.5)

Lab Sample ID: 500-192921-1

Date Collected: 12/22/20 10:30

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 02:54	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:56	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 22:17	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:45	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:09	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:39	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578810	12/28/20 18:09	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578696	12/28/20 13:40	LWN	TAL CHI

Client Sample ID: 3972-COV-11-B02 (0-7.5)

Lab Sample ID: 500-192921-1

Date Collected: 12/22/20 10:30

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578788	12/23/20 17:29	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579222	12/31/20 15:21	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579196	12/30/20 20:23	NRJ	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 18:00	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579796	01/05/21 20:08	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579796	01/05/21 20:12	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 08:58	MJG	TAL CHI
Total/NA	Prep	9010C			578930	12/29/20 14:12	PSP	TAL CHI
Total/NA	Analysis	9012B		1	579127	12/29/20 16:14	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15)

Lab Sample ID: 500-192921-2

Date Collected: 12/22/20 10:35

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 02:57	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 01:00	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 22:21	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:58	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:11	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:41	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578810	12/28/20 18:14	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578696	12/28/20 13:40	LWN	TAL CHI

Client Sample ID: 3972-COV-11-B02 (7.5-15)

Lab Sample ID: 500-192921-2

Date Collected: 12/22/20 10:35

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578788	12/23/20 17:29	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579222	12/31/20 15:47	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579196	12/30/20 20:50	NRJ	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 18:03	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579796	01/05/21 20:15	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579796	01/05/21 20:18	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 09:00	MJG	TAL CHI
Total/NA	Prep	9010C			578930	12/29/20 14:12	PSP	TAL CHI
Total/NA	Analysis	9012B		1	579127	12/29/20 16:16	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B02 (7.5-15) Dup

Lab Sample ID: 500-192921-3

Date Collected: 12/22/20 10:40

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 03:01	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 01:03	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 22:24	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 19:02	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:13	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:44	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578810	12/28/20 18:17	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578696	12/28/20 13:40	LWN	TAL CHI

Client Sample ID: 3972-COV-11-B02 (7.5-15) Dup

Lab Sample ID: 500-192921-3

Date Collected: 12/22/20 10:40

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578788	12/23/20 17:29	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579222	12/31/20 16:13	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579196	12/30/20 21:17	NRJ	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 18:07	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579796	01/05/21 20:22	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579796	01/05/21 20:25	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 09:01	MJG	TAL CHI
Total/NA	Prep	9010C			578930	12/29/20 14:12	PSP	TAL CHI
Total/NA	Analysis	9012B		1	579127	12/29/20 16:21	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (0-7)

Lab Sample ID: 500-192921-4

Date Collected: 12/22/20 09:50

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 03:04	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 01:07	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 22:27	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		5	579995	01/06/21 22:31	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 19:05	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:15	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:50	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578810	12/28/20 18:19	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578696	12/28/20 13:40	LWN	TAL CHI

Client Sample ID: 3972-COV-11-B03 (0-7)

Lab Sample ID: 500-192921-4

Date Collected: 12/22/20 09:50

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578788	12/23/20 17:29	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579222	12/31/20 16:39	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579196	12/30/20 21:44	NRJ	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 18:10	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579796	01/05/21 20:29	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579796	01/05/21 20:32	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 09:03	MJG	TAL CHI
Total/NA	Prep	9010C			578930	12/29/20 14:12	PSP	TAL CHI
Total/NA	Analysis	9012B		1	579127	12/29/20 16:22	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Client Sample ID: 3972-COV-11-B03 (7-13)

Lab Sample ID: 500-192921-5

Date Collected: 12/22/20 09:55

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 03:07	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 01:10	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 22:34	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 19:12	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:17	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:52	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578810	12/28/20 18:22	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578696	12/28/20 13:40	LWN	TAL CHI

Client Sample ID: 3972-COV-11-B03 (7-13)

Lab Sample ID: 500-192921-5

Date Collected: 12/22/20 09:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578788	12/23/20 17:29	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579222	12/31/20 17:04	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579196	12/30/20 22:10	NRJ	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 18:13	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579796	01/05/21 20:36	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579796	01/05/21 20:49	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 09:17	MJG	TAL CHI
Total/NA	Prep	9010C			578930	12/29/20 14:12	PSP	TAL CHI
Total/NA	Analysis	9012B		1	579127	12/29/20 16:24	PSP	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192921-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192921-1	3972-COV-11-B02 (0-7.5)	Solid	12/22/20 10:30	12/22/20 17:22	
500-192921-2	3972-COV-11-B02 (7.5-15)	Solid	12/22/20 10:35	12/22/20 17:22	
500-192921-3	3972-COV-11-B02 (7.5-15) Dup	Solid	12/22/20 10:40	12/22/20 17:22	
500-192921-4	3972-COV-11-B03 (0-7)	Solid	12/22/20 09:50	12/22/20 17:22	
500-192921-5	3972-COV-11-B03 (7-13)	Solid	12/22/20 09:55	12/22/20 17:22	

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>Terracon</u> Address: <u>192 Fitchburg Blvd</u> City/State/Zip: <u>Glendale Heights, IL</u> Phone: <u>630-445-0160</u> Fax: _____ Project Name: <u>11207011W</u> Site: <u>11207011W</u> P O # _____		Project Manager: <u>Rich O'Brien</u> Tel/Email: <u>rich.o'brien@terracon.com</u> Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" 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		Site Contact: _____ Lab Contact: _____ Date: <u>12/22/20</u> Carrier: _____		COC No: _____ of _____ COCs Sampler: <u>D. G. Fl</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-192921</u>																													
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.		Filtered Sample (Y/N) Perform MS / MSD (Y/N)		500-192921 COC 		Sample Specific Notes:																			
1 3972-COV-11-B02 (0-7.5)		12/22/20		1030		G		Soil		6		UN X X X X X		VOC's		Total 23 Inorganics / PAH TCLP 23 Inorganics SPL 23 Inorganics		_____																	
2 3972-COV-11-B02 (7.5-15)		12/22/20		1035		G		Soil		6		UN X X X X X		_____		_____																			
3 3972-COV-11-B02 Dup (7.5-15)		12/22/20		1040		G		Soil		6		UN X X X X X		_____		_____																			
4 3972-COV-11-B03 (0-7)		12/22/20		0950		G		Soil		6		UN X X X X X		_____		_____																			
5 3972-COV-11-B03 (7-13)		12/22/20		0955		G		Soil		6		UN X X X X X		_____		_____																			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____												Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" 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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months																	
Special Instructions/QC Requirements & Comments: * No Aminoacids * Hold SPLP 23 Inorganics per Terracon Instructions 2.9+0.6-3.8 -> 3.5																																			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No						Custody Seal No.: _____						Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Therm No.: _____																							
Relinquished by: <u>Vanuz</u>						Company: <u>Terracon</u>						Date/Time: <u>12/22/20 1610</u>						Received by: <u>P. Neal</u>						Company: <u>EA</u>						Date/Time: <u>12/22/20 1610</u>					
Relinquished by: <u>P. Neal</u>						Company: <u>EA</u>						Date/Time: <u>12/22/20</u>						Received by: _____						Company: _____						Date/Time: _____					
Relinquished by: _____						Company: _____						Date/Time: _____						Received in Laboratory by: <u>Chun Zhao</u>						Company: <u>ETA-CH</u>						Date/Time: <u>12/23/20 0800</u>					

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192921-1

Login Number: 192921

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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	0.6,3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Irving Park Road (Westbound) IDOT STA 97+45 to 98+40, (ISGS 3972-COV-13)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Hanover

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

Latitude: 42.00575 Longitude: -88.14535

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 13

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 3972-COV-13. See Exhibit 2 and Table 19 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192811-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A
Preliminary Site Investigation
FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-13)
Hanover Park, Cook County, IL
Terracon Project No. 11207011W
Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-13-B01 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/18/2020
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		9.3
Barium	mg/kg	---	110	1500		79
Cadmium	mg/kg	---	0.6	5.2		<0.020
Chromium, total	mg/kg	---	16.2	21		22
Lead	mg/kg	---	36	107		16
Mercury	mg/kg	---	0.06	0.89		0.031
Selenium	mg/kg	---	0.48	1.3		<0.33
Silver	mg/kg	---	0.55	4.4		0.30
Antimony	mg/kg	---	4.0	5		<0.22
Beryllium	mg/kg	---	0.59	22		0.82
Calcium	mg/kg	---	9,300	---		29000
Cobalt	mg/kg	---	8.9	20		14
Copper	mg/kg	---	19.6	2900		27
Cyanide	mg/kg	---	0.51	---		<0.13
Iron	mg/kg	---	15,900	15000		23000
Magnesium	mg/kg	---	4,820	325000		20000
Manganese	mg/kg	---	636	630		380
Nickel	mg/kg	---	18	100		37
Potassium	mg/kg	---	1,268	---		3000
Sodium	mg/kg	---	130	---		850
Thallium	mg/kg	---	0.32	2.6		0.32
Vanadium	mg/kg	---	25.2	550		32
Zinc	mg/kg	---	95	5100		90
pH			6.25	9		9.0

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-13)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-13-B01 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/18/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		0.78
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.56
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		460
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		0.011
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		0.42
Magnesium,TCLP	mg/L	---	---	---		87
Manganese,TCLP	mg/L	---	---	---		0.68
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		1.5
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.024

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192811-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
1/4/2021 3:15:16 PM

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Job ID: 500-192811-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192811-1

Receipt

The samples were received on 12/18/2020 5:50 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The following sample contained one base surrogate outside acceptance limits: 3972-COV-13-B03 (7-13) (500-192811-5). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-579024 and 500-579184 and analytical batch 500-579386 recovered outside control limits for the following analytes: Iron. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

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: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B01 (0-3)

Lab Sample ID: 500-192811-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.3		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	79		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.82		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Chromium	22		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	27		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	20000	B	5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	29000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	380	B	0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	37		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.32	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	32		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	90	B	1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	3000		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	850		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.42	J	0.60	0.20	mg/L	1		6010B	TCLP
Magnesium	87		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.68		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.024	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.78	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-13-B02 (0-7.5)

Lab Sample ID: 500-192811-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.019		0.019	0.0081	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0052		0.0047	0.0021	mg/Kg	1	✳	8260B	Total/NA
Acenaphthylene	0.0084	J	0.042	0.0055	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.013	J	0.042	0.0070	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.069		0.042	0.0056	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.092		0.042	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.042	0.0090	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.074		0.042	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.043		0.042	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.095		0.042	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.042	0.0081	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.13		0.042	0.0077	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0066	J	0.042	0.0059	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.048		0.042	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.075		0.042	0.0058	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.15		0.042	0.0083	mg/Kg	1	✳	8270D	Total/NA
Arsenic	7.3		0.63	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	82		0.63	0.071	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (0-7.5) (Continued)

Lab Sample ID: 500-192811-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.69		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.13	0.023	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.082	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.63	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		13	6.5	mg/Kg	1	☼	6010B	Total/NA
Lead	110		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	6.3	3.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000	B	13	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	340	B	0.63	0.091	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.63	0.18	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.31	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	90	B	1.3	0.55	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	800		63	9.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	85		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.062	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.41	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.21	J	0.30	0.15	mg/Kg	1	☼	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-13-B02 (7.5-15)

Lab Sample ID: 500-192811-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.011	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.8		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	18		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	17		1.5	0.67	mg/Kg	5	☼	6010B	Total/NA
Magnesium	35000	B	5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	78000	B	58	9.9	mg/Kg	5	☼	6010B	Total/NA
Manganese	440	B	0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.19	J	0.29	0.075	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (7.5-15) (Continued)

Lab Sample ID: 500-192811-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	22		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	54	B	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	3600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	390		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	83		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.055		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.035	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-13-B03 (0-7)

Lab Sample ID: 500-192811-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0066	J	0.015	0.0066	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0053	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0081	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.6		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.56	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.81		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.029	J	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	21		1.4	0.64	mg/Kg	5	☼	6010B	Total/NA
Magnesium	29000	B	5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B	56	9.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	380	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.19	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.31	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	3600		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	840		56	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.52	J B **	0.60	0.20	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.16	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (7-13)

Lab Sample ID: 500-192811-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.012	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Arsenic	7.5		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	97		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.77		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	28		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	19		1.4	0.64	mg/Kg	5	✳	6010B	Total/NA
Magnesium	31000	B	5.5	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	70000	B	55	9.4	mg/Kg	5	✳	6010B	Total/NA
Manganese	750	B	0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	50		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Silver	0.15	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	63	B	1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	3800		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Sodium	640		55	8.2	mg/Kg	1	✳	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.29	J B **	0.60	0.20	mg/L	1		6010B	TCLP
Magnesium	80		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.98		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.63	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B01 (0-3)

Lab Sample ID: 500-192811-1

Date Collected: 12/18/20 11:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0075		0.017	0.0075	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Carbon disulfide	<0.00089		0.0043	0.00089	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Chlorobenzene	<0.00063		0.0017	0.00063	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
1,3-Dichloropropene, Total	<0.00060		0.0017	0.00060	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Tetrachloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
trans-1,3-Dichloropropene	<0.00060		0.0017	0.00060	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	☼	12/19/20 16:35	12/30/20 10:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	12/19/20 16:35	12/30/20 10:28	1
Dibromofluoromethane	99		75 - 126	12/19/20 16:35	12/30/20 10:28	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	12/19/20 16:35	12/30/20 10:28	1
Toluene-d8 (Surr)	91		75 - 124	12/19/20 16:35	12/30/20 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B01 (0-3)

Lab Sample ID: 500-192811-1

Date Collected: 12/18/20 11:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0076		0.039	0.0076	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Carbazole	<0.098		0.20	0.098	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Chrysene	<0.011		0.039	0.011	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Isophorone	<0.044		0.20	0.044	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	✱	12/30/20 16:55	12/31/20 11:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B01 (0-3)

Lab Sample ID: 500-192811-1

Date Collected: 12/18/20 11:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
Pyrene	<0.0078		0.039	0.0078	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	12/30/20 16:55	12/31/20 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		43 - 145	12/30/20 16:55	12/31/20 11:10	1
2-Fluorophenol	62		31 - 166	12/30/20 16:55	12/31/20 11:10	1
Nitrobenzene-d5	69		37 - 147	12/30/20 16:55	12/31/20 11:10	1
Phenol-d5	74		30 - 153	12/30/20 16:55	12/31/20 11:10	1
Terphenyl-d14	90		42 - 157	12/30/20 16:55	12/31/20 11:10	1
2,4,6-Tribromophenol	65		31 - 143	12/30/20 16:55	12/31/20 11:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Arsenic	9.3		0.56	0.19	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Barium	79		0.56	0.064	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Beryllium	0.82		0.22	0.052	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Cadmium	<0.020		0.11	0.020	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Chromium	22		0.56	0.28	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Cobalt	14		0.28	0.073	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Copper	27		0.56	0.16	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Iron	23000		11	5.8	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Lead	16		0.28	0.13	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Magnesium	20000	B	5.6	2.8	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Calcium	29000	B	11	1.9	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Manganese	380	B	0.56	0.081	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Nickel	37		0.56	0.16	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Silver	0.30		0.28	0.072	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Thallium	0.32	J	0.56	0.28	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Vanadium	32		0.28	0.066	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Zinc	90	B	1.1	0.49	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Potassium	3000		28	9.9	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1
Sodium	850		56	8.3	mg/Kg	☼	12/28/20 18:57	12/31/20 02:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 23:15	1
Barium	0.56		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 23:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 23:15	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 23:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B01 (0-3)

Lab Sample ID: 500-192811-1

Date Collected: 12/18/20 11:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	460		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 23:15	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:15	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:15	1
Copper	0.011	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:15	1
Iron	0.42	J	0.60	0.20	mg/L		12/30/20 17:33	12/31/20 23:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 23:15	1
Magnesium	87		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:15	1
Manganese	0.68		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:15	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:15	1
Potassium	1.5	J	2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:15	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 23:15	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:15	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:15	1
Zinc	0.024	J	0.50	0.020	mg/L		12/30/20 17:33	12/31/20 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.78	B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0063	mg/Kg	✱	12/28/20 13:30	12/29/20 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.27	0.13	mg/Kg	✱	12/28/20 10:55	12/28/20 13:20	1
pH	9.0		0.2	0.2	SU			12/23/20 16:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (0-7.5)

Lab Sample ID: 500-192811-2

Date Collected: 12/18/20 11:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.019	0.0081	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Benzene	<0.00047		0.0019	0.00047	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Bromoform	<0.00054		0.0019	0.00054	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
2-Butanone (MEK)	0.0052		0.0047	0.0021	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Carbon disulfide	<0.00097		0.0047	0.00097	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Chloroethane	<0.0014		0.0047	0.0014	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
1,2-Dichloropropene	<0.00048		0.0019	0.00048	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
1,3-Dichloropropene, Total	<0.00065		0.0019	0.00065	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Methylene Chloride	<0.0018		0.0047	0.0018	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0019	0.00059	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Tetrachloroethene	<0.00063		0.0019	0.00063	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
trans-1,2-Dichloroethene	<0.00082		0.0019	0.00082	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
trans-1,3-Dichloropropene	<0.00065		0.0019	0.00065	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
1,1,1-Trichloroethane	<0.00062		0.0019	0.00062	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
1,1,2-Trichloroethane	<0.00080		0.0019	0.00080	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Vinyl chloride	<0.00082		0.0019	0.00082	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1
Xylenes, Total	<0.00060		0.0037	0.00060	mg/Kg	✳	12/19/20 16:35	12/30/20 10:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	12/19/20 16:35	12/30/20 10:53	1
Dibromofluoromethane	92		75 - 126	12/19/20 16:35	12/30/20 10:53	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134	12/19/20 16:35	12/30/20 10:53	1
Toluene-d8 (Surr)	95		75 - 124	12/19/20 16:35	12/30/20 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.042	0.0075	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Acenaphthylene	0.0084	J	0.042	0.0055	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Anthracene	0.013	J	0.042	0.0070	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Benzo[a]anthracene	0.069		0.042	0.0056	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (0-7.5)

Lab Sample ID: 500-192811-2

Date Collected: 12/18/20 11:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.092		0.042	0.0081	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Benzo[b]fluoranthene	0.13		0.042	0.0090	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Benzo[g,h,i]perylene	0.074		0.042	0.013	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Benzo[k]fluoranthene	0.043		0.042	0.012	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Carbazole	<0.10		0.21	0.10	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Chrysene	0.095		0.042	0.011	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Dibenz(a,h)anthracene	0.015	J	0.042	0.0081	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2,4-Dichlorophenol	<0.099		0.42	0.099	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
4,6-Dinitro-2-methylphenol	<0.34		0.84	0.34	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2,4-Dinitrophenol	<0.74		0.84	0.74	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Fluoranthene	0.13		0.042	0.0077	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Fluorene	0.0066	J	0.042	0.0059	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Hexachlorobenzene	<0.0097		0.084	0.0097	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Indeno[1,2,3-cd]pyrene	0.048		0.042	0.011	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Isophorone	<0.047		0.21	0.047	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2-Methylnaphthalene	<0.0077		0.084	0.0077	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Naphthalene	<0.0064		0.042	0.0064	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
4-Nitroaniline	<0.17		0.42	0.17	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
Nitrobenzene	<0.010		0.042	0.010	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1
2-Nitrophenol	<0.099		0.42	0.099	mg/Kg	✳	12/30/20 16:55	12/31/20 13:18	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (0-7.5)

Lab Sample ID: 500-192811-2

Date Collected: 12/18/20 11:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
Phenanthrene	0.075		0.042	0.0058	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
Pyrene	0.15		0.042	0.0083	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
2,4,5-Trichlorophenol	<0.095		0.42	0.095	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	☼	12/30/20 16:55	12/31/20 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		43 - 145				12/30/20 16:55	12/31/20 13:18	1
2-Fluorophenol	49		31 - 166				12/30/20 16:55	12/31/20 13:18	1
Nitrobenzene-d5	54		37 - 147				12/30/20 16:55	12/31/20 13:18	1
Phenol-d5	63		30 - 153				12/30/20 16:55	12/31/20 13:18	1
Terphenyl-d14	81		42 - 157				12/30/20 16:55	12/31/20 13:18	1
2,4,6-Tribromophenol	65		31 - 143				12/30/20 16:55	12/31/20 13:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24		1.3	0.24	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Arsenic	7.3		0.63	0.21	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Barium	82		0.63	0.071	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Beryllium	0.69		0.25	0.058	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Cadmium	0.21		0.13	0.023	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Chromium	17		0.63	0.31	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Cobalt	12		0.31	0.082	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Copper	24		0.63	0.18	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Iron	18000		13	6.5	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Lead	110		0.31	0.14	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Magnesium	21000 B		6.3	3.1	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Calcium	33000 B		13	2.1	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Manganese	340 B		0.63	0.091	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Nickel	28		0.63	0.18	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Selenium	<0.37		0.63	0.37	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Silver	0.20 J		0.31	0.081	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Thallium	<0.31		0.63	0.31	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Vanadium	25		0.31	0.074	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Zinc	90 B		1.3	0.55	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Potassium	2300		31	11	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1
Sodium	800		63	9.3	mg/Kg	☼	12/28/20 18:57	12/31/20 02:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 23:25	1
Barium	0.71		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 23:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 23:25	1
Cadmium	0.0020 J		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 23:25	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (0-7.5)

Lab Sample ID: 500-192811-2

Date Collected: 12/18/20 11:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 23:25	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:25	1
Cobalt	0.020	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:25	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:25	1
Iron	<0.20		0.60	0.20	mg/L		12/30/20 17:33	12/31/20 23:25	1
Lead	0.016		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 23:25	1
Magnesium	85		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:25	1
Manganese	6.8		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:25	1
Nickel	0.016	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:25	1
Potassium	2.9		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:25	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 23:25	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:25	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:25	1
Zinc	0.062	J	0.50	0.020	mg/L		12/30/20 17:33	12/31/20 23:25	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.23		0.0075	0.0075	mg/L		12/30/20 17:38	01/01/21 01:46	1
Manganese	0.41	B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 11:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0066	mg/Kg	✱	12/28/20 13:30	12/29/20 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21	J	0.30	0.15	mg/Kg	✱	12/28/20 10:55	12/28/20 13:21	1
pH	8.2		0.2	0.2	SU			12/23/20 16:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (7.5-15)

Lab Sample ID: 500-192811-3

Date Collected: 12/18/20 11:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0068		0.016	0.0068	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
1,1-Dichloroethane	<0.00053		0.0016	0.00053	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
1,2-Dichloropropene	<0.00040		0.0016	0.00040	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	✱	12/19/20 16:35	12/30/20 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	12/19/20 16:35	12/30/20 11:19	1
Dibromofluoromethane	98		75 - 126	12/19/20 16:35	12/30/20 11:19	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/19/20 16:35	12/30/20 11:19	1
Toluene-d8 (Surr)	93		75 - 124	12/19/20 16:35	12/30/20 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	✱	12/30/20 16:55	12/31/20 12:52	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	✱	12/30/20 16:55	12/31/20 12:52	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	✱	12/30/20 16:55	12/31/20 12:52	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	✱	12/30/20 16:55	12/31/20 12:52	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (7.5-15)

Lab Sample ID: 500-192811-3

Date Collected: 12/18/20 11:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0076		0.039	0.0076	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2-Methylnaphthalene	0.011 J		0.079	0.0072	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☆	12/30/20 16:55	12/31/20 12:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (7.5-15)

Lab Sample ID: 500-192811-3

Date Collected: 12/18/20 11:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
Phenanthrene	0.031	J	0.039	0.0055	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
Pyrene	<0.0078		0.039	0.0078	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	12/30/20 16:55	12/31/20 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	47		43 - 145				12/30/20 16:55	12/31/20 12:52	1
2-Fluorophenol	40		31 - 166				12/30/20 16:55	12/31/20 12:52	1
Nitrobenzene-d5	47		37 - 147				12/30/20 16:55	12/31/20 12:52	1
Phenol-d5	51		30 - 153				12/30/20 16:55	12/31/20 12:52	1
Terphenyl-d14	74		42 - 157				12/30/20 16:55	12/31/20 12:52	1
2,4,6-Tribromophenol	56		31 - 143				12/30/20 16:55	12/31/20 12:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Arsenic	6.8		0.58	0.20	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Barium	55		0.58	0.066	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Beryllium	0.72		0.23	0.054	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Cadmium	<0.021		0.12	0.021	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Chromium	19		0.58	0.29	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Cobalt	18		0.29	0.076	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Copper	23		0.58	0.16	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Iron	19000		12	6.1	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Lead	17		1.5	0.67	mg/Kg	☼	12/28/20 18:57	12/31/20 18:35	5
Magnesium	35000	B	5.8	2.9	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Calcium	78000	B	58	9.9	mg/Kg	☼	12/28/20 18:57	12/31/20 18:35	5
Manganese	440	B	0.58	0.084	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Nickel	33		0.58	0.17	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Selenium	0.46	J	0.58	0.34	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Silver	0.19	J	0.29	0.075	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Vanadium	22		0.29	0.069	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Zinc	54	B	1.2	0.51	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Potassium	3600		29	10	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1
Sodium	390		58	8.6	mg/Kg	☼	12/28/20 18:57	12/31/20 02:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 23:28	1
Barium	0.35	J	0.50	0.050	mg/L		12/30/20 17:33	12/31/20 23:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 23:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 23:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (7.5-15)

Lab Sample ID: 500-192811-3

Date Collected: 12/18/20 11:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 23:28	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:28	1
Cobalt	0.027		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:28	1
Copper	0.011	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:28	1
Iron	<0.20		0.60	0.20	mg/L		12/30/20 17:33	12/31/20 23:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 23:28	1
Magnesium	83		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:28	1
Manganese	1.1		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:28	1
Nickel	0.055		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:28	1
Potassium	3.7		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 23:28	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 23:28	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:28	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 23:28	1
Zinc	0.027	J	0.50	0.020	mg/L		12/30/20 17:33	12/31/20 23:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.035	B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 11:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0061	mg/Kg	☼	12/28/20 13:30	12/29/20 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☼	12/28/20 10:55	12/28/20 13:23	1
pH	8.0		0.2	0.2	SU			12/23/20 16:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (0-7)

Lab Sample ID: 500-192811-4

Date Collected: 12/18/20 10:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0066	J	0.015	0.0066	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Bromomethane	<0.0014		0.0038	0.0014	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Carbon disulfide	<0.00079		0.0038	0.00079	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Carbon tetrachloride	<0.00044		0.0015	0.00044	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Chlorobenzene	<0.00056		0.0015	0.00056	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Chloroethane	<0.0011		0.0038	0.0011	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Chloroform	<0.00053		0.0015	0.00053	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Chloromethane	<0.0015		0.0038	0.0015	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
1,1-Dichloroethane	<0.00052		0.0015	0.00052	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
1,1-Dichloroethene	<0.00052		0.0015	0.00052	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
1,2-Dichloropropene	<0.00039		0.0015	0.00039	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
1,3-Dichloropropene, Total	<0.00053		0.0015	0.00053	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Ethylbenzene	<0.00073		0.0015	0.00073	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Styrene	<0.00046		0.0015	0.00046	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Tetrachloroethene	<0.00052		0.0015	0.00052	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
trans-1,2-Dichloroethene	<0.00067		0.0015	0.00067	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
trans-1,3-Dichloropropene	<0.00053		0.0015	0.00053	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
1,1,1-Trichloroethane	<0.00051		0.0015	0.00051	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
1,1,2-Trichloroethane	<0.00065		0.0015	0.00065	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Trichloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Vinyl chloride	<0.00067		0.0015	0.00067	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1
Xylenes, Total	<0.00049		0.0030	0.00049	mg/Kg	✳	12/19/20 16:35	12/30/20 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	12/19/20 16:35	12/30/20 11:44	1
Dibromofluoromethane	97		75 - 126	12/19/20 16:35	12/30/20 11:44	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/19/20 16:35	12/30/20 11:44	1
Toluene-d8 (Surr)	92		75 - 124	12/19/20 16:35	12/30/20 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
Benzo[a]anthracene	0.0053	J	0.039	0.0053	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (0-7)

Lab Sample ID: 500-192811-4

Date Collected: 12/18/20 10:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0077		0.039	0.0077	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	12/30/20 16:55	12/31/20 11:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (0-7)

Lab Sample ID: 500-192811-4

Date Collected: 12/18/20 10:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
Pentachlorophenol	<0.63		0.80	0.63	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
Phenol	<0.088		0.20	0.088	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
Pyrene	0.0081	J	0.039	0.0079	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	✳	12/30/20 16:55	12/31/20 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	46		43 - 145				12/30/20 16:55	12/31/20 11:36	1
2-Fluorophenol	43		31 - 166				12/30/20 16:55	12/31/20 11:36	1
Nitrobenzene-d5	46		37 - 147				12/30/20 16:55	12/31/20 11:36	1
Phenol-d5	55		30 - 153				12/30/20 16:55	12/31/20 11:36	1
Terphenyl-d14	74		42 - 157				12/30/20 16:55	12/31/20 11:36	1
2,4,6-Tribromophenol	54		31 - 143				12/30/20 16:55	12/31/20 11:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Arsenic	6.6		0.56	0.19	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Barium	55		0.56	0.063	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Beryllium	0.81		0.22	0.052	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Cadmium	0.029	J	0.11	0.020	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Chromium	20		0.56	0.28	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Cobalt	15		0.28	0.073	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Copper	24		0.56	0.16	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Iron	19000		11	5.8	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Lead	21		1.4	0.64	mg/Kg	✳	12/28/20 18:57	12/31/20 18:38	5
Magnesium	29000	B	5.6	2.8	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Calcium	67000	B	56	9.4	mg/Kg	✳	12/28/20 18:57	12/31/20 18:38	5
Manganese	380	B	0.56	0.081	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Nickel	36		0.56	0.16	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Selenium	<0.33		0.56	0.33	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Silver	0.19	J	0.28	0.072	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Thallium	0.31	J	0.56	0.28	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Vanadium	25		0.28	0.066	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Zinc	64	B	1.1	0.49	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Potassium	3600		28	9.8	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1
Sodium	840		56	8.2	mg/Kg	✳	12/28/20 18:57	12/31/20 02:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:35	12/31/20 17:13	1
Barium	0.36	J	0.50	0.050	mg/L		12/30/20 17:35	12/31/20 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:35	12/31/20 17:13	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:35	12/31/20 17:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (0-7)

Lab Sample ID: 500-192811-4

Date Collected: 12/18/20 10:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	410		5.0	0.50	mg/L		12/30/20 17:35	12/31/20 17:13	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:13	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:13	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:13	1
Iron	0.52	J B *+	0.60	0.20	mg/L		12/30/20 17:35	12/31/20 17:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:35	12/31/20 17:13	1
Magnesium	32		2.5	0.50	mg/L		12/30/20 17:35	12/31/20 17:13	1
Manganese	2.3		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:13	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:13	1
Potassium	2.1	J	2.5	0.50	mg/L		12/30/20 17:35	12/31/20 17:13	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:35	12/31/20 17:13	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:13	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:13	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:35	12/31/20 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16	B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:35	12/31/20 12:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:35	12/31/20 12:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 11:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0063	mg/Kg	✱	12/28/20 13:30	12/29/20 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.29	0.14	mg/Kg	✱	12/28/20 10:55	12/28/20 13:25	1
pH	8.9		0.2	0.2	SU			12/23/20 16:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (7-13)

Lab Sample ID: 500-192811-5

Date Collected: 12/18/20 10:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.017	0.0076	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Benzene	<0.00045		0.0017	0.00045	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Bromodichloromethane	<0.00036		0.0017	0.00036	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Carbon tetrachloride	<0.00051		0.0017	0.00051	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Chlorobenzene	<0.00065		0.0017	0.00065	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Chloroform	<0.00061		0.0017	0.00061	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
cis-1,3-Dichloropropene	<0.00053		0.0017	0.00053	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
1,2-Dichloropropene	<0.00045		0.0017	0.00045	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Ethylbenzene	<0.00084		0.0017	0.00084	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Tetrachloroethene	<0.00060		0.0017	0.00060	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
trans-1,2-Dichloroethene	<0.00078		0.0017	0.00078	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
1,1,1-Trichloroethane	<0.00059		0.0017	0.00059	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	✳	12/19/20 16:35	12/30/20 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	12/19/20 16:35	12/30/20 12:09	1
Dibromofluoromethane	99		75 - 126	12/19/20 16:35	12/30/20 12:09	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	12/19/20 16:35	12/30/20 12:09	1
Toluene-d8 (Surr)	92		75 - 124	12/19/20 16:35	12/30/20 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (7-13)

Lab Sample ID: 500-192811-5

Date Collected: 12/18/20 10:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0077		0.039	0.0077	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Benzo[b]fluoranthene	<0.0086		0.039	0.0086	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
4-Chloro-3-methylphenol	<0.14		0.39	0.14	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Dibenz(a,h)anthracene	<0.0077		0.039	0.0077	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Fluoranthene	<0.0074		0.039	0.0074	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1
2-Nitrophenol	<0.094		0.39	0.094	mg/Kg	☼	12/30/20 16:55	12/31/20 12:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (7-13)

Lab Sample ID: 500-192811-5

Date Collected: 12/18/20 10:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
Phenanthrene	0.012	J	0.039	0.0055	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
Phenol	<0.088		0.20	0.088	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
Pyrene	<0.0079		0.039	0.0079	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
2,4,5-Trichlorophenol	<0.091		0.39	0.091	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	✳	12/30/20 16:55	12/31/20 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	41	S1-	43 - 145	12/30/20 16:55	12/31/20 12:01	1
2-Fluorophenol	35		31 - 166	12/30/20 16:55	12/31/20 12:01	1
Nitrobenzene-d5	39		37 - 147	12/30/20 16:55	12/31/20 12:01	1
Phenol-d5	44		30 - 153	12/30/20 16:55	12/31/20 12:01	1
Terphenyl-d14	64		42 - 157	12/30/20 16:55	12/31/20 12:01	1
2,4,6-Tribromophenol	44		31 - 143	12/30/20 16:55	12/31/20 12:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Arsenic	7.5		0.55	0.19	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Barium	97		0.55	0.063	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Beryllium	0.77		0.22	0.052	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Cadmium	<0.020		0.11	0.020	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Chromium	19		0.55	0.27	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Cobalt	28		0.28	0.073	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Copper	25		0.55	0.16	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Iron	20000		11	5.8	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Lead	19		1.4	0.64	mg/Kg	✳	12/28/20 18:57	12/31/20 18:42	5
Magnesium	31000	B	5.5	2.8	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Calcium	70000	B	55	9.4	mg/Kg	✳	12/28/20 18:57	12/31/20 18:42	5
Manganese	750	B	0.55	0.080	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Nickel	50		0.55	0.16	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Selenium	<0.33		0.55	0.33	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Silver	0.15	J	0.28	0.072	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Thallium	<0.28		0.55	0.28	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Vanadium	22		0.28	0.065	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Zinc	63	B	1.1	0.49	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Potassium	3800		28	9.8	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1
Sodium	640		55	8.2	mg/Kg	✳	12/28/20 18:57	12/31/20 02:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:35	12/31/20 17:17	1
Barium	0.35	J	0.50	0.050	mg/L		12/30/20 17:35	12/31/20 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:35	12/31/20 17:17	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:35	12/31/20 17:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (7-13)

Lab Sample ID: 500-192811-5

Date Collected: 12/18/20 10:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	540		5.0	0.50	mg/L		12/30/20 17:35	12/31/20 17:17	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:17	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:17	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:17	1
Iron	0.29	J B *+	0.60	0.20	mg/L		12/30/20 17:35	12/31/20 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:35	12/31/20 17:17	1
Magnesium	80		2.5	0.50	mg/L		12/30/20 17:35	12/31/20 17:17	1
Manganese	0.98		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:17	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:17	1
Potassium	3.2		2.5	0.50	mg/L		12/30/20 17:35	12/31/20 17:17	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:35	12/31/20 17:17	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:17	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:17	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:35	12/31/20 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.63	B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:35	12/31/20 12:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:35	12/31/20 12:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 11:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0061	mg/Kg	✱	12/28/20 13:30	12/29/20 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.27	0.13	mg/Kg	✱	12/28/20 10:55	12/28/20 13:27	1
pH	8.1		0.2	0.2	SU			12/23/20 16:50	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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)
500-192811-1	3972-COV-13-B01 (0-3)	94	99	87	91
500-192811-2	3972-COV-13-B02 (0-7.5)	97	92	82	95
500-192811-3	3972-COV-13-B02 (7.5-15)	97	98	88	93
500-192811-4	3972-COV-13-B03 (0-7)	94	97	88	92
500-192811-5	3972-COV-13-B03 (7-13)	96	99	90	92
LCS 500-579020/4	Lab Control Sample	85	90	77	94
LCS 500-579020/5	Lab Control Sample Dup	86	90	77	96
MB 500-579020/7	Method Blank	96	92	80	92

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-192811-1	3972-COV-13-B01 (0-3)	68	62	69	74	90	65
500-192811-2	3972-COV-13-B02 (0-7.5)	57	49	54	63	81	65
500-192811-3	3972-COV-13-B02 (7.5-15)	47	40	47	51	74	56
500-192811-4	3972-COV-13-B03 (0-7)	46	43	46	55	74	54
500-192811-5	3972-COV-13-B03 (7-13)	41 S1-	35	39	44	64	44
LCS 500-579174/2-A	Lab Control Sample	110	77	99	90	92	89
MB 500-579174/1-A	Method Blank	86	66	82	74	90	69

Surrogate Legend

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: MB 500-579020/7
Matrix: Solid
Analysis Batch: 579020

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/30/20 10:02	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/30/20 10:02	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/30/20 10:02	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/30/20 10:02	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/30/20 10:02	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/30/20 10:02	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/30/20 10:02	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/30/20 10:02	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/30/20 10:02	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/30/20 10:02	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/30/20 10:02	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/30/20 10:02	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/30/20 10:02	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/30/20 10:02	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/30/20 10:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		75 - 131		12/30/20 10:02	1
Dibromofluoromethane	92		75 - 126		12/30/20 10:02	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		12/30/20 10:02	1
Toluene-d8 (Surr)	92		75 - 124		12/30/20 10:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: LCS 500-579020/4
Matrix: Solid
Analysis Batch: 579020

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	0.0504		mg/Kg		101	40 - 150
Benzene	0.0500	0.0511		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0457		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0465		mg/Kg		93	68 - 136
Bromomethane	0.0500	0.0432		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0401		mg/Kg		80	47 - 138
Carbon disulfide	0.0500	0.0547		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0500	0.0545		mg/Kg		109	75 - 125
Chlorobenzene	0.0500	0.0514		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0562		mg/Kg		112	75 - 125
Chloroform	0.0500	0.0482		mg/Kg		96	57 - 135
Chloromethane	0.0500	0.0526		mg/Kg		105	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0408		mg/Kg		82	70 - 125
Dibromochloromethane	0.0500	0.0494		mg/Kg		99	69 - 125
1,1-Dichloroethane	0.0500	0.0575		mg/Kg		115	70 - 125
1,2-Dichloroethane	0.0500	0.0435		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0542		mg/Kg		108	70 - 120
1,2-Dichloropropane	0.0500	0.0526		mg/Kg		105	70 - 125
Ethylbenzene	0.0500	0.0540		mg/Kg		108	61 - 136
2-Hexanone	0.0500	0.0377		mg/Kg		75	48 - 146
Methylene Chloride	0.0500	0.0479		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0367		mg/Kg		73	50 - 148
Methyl tert-butyl ether	0.0500	0.0389		mg/Kg		78	50 - 140
Styrene	0.0500	0.0516		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0404		mg/Kg		81	70 - 122
Tetrachloroethene	0.0500	0.0534		mg/Kg		107	70 - 124
Toluene	0.0500	0.0523		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0541		mg/Kg		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0384		mg/Kg		77	70 - 125
1,1,1-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 128
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125
Trichloroethene	0.0500	0.0548		mg/Kg		110	70 - 125
Vinyl acetate	0.0500	0.0334		mg/Kg		67	40 - 153
Vinyl chloride	0.0500	0.0569		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0999		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	85		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: LCSD 500-579020/5
Matrix: Solid
Analysis Batch: 579020

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	0.0467		mg/Kg		93	40 - 150	8	30
Benzene	0.0500	0.0564		mg/Kg		113	70 - 125	10	30
Bromodichloromethane	0.0500	0.0505		mg/Kg		101	67 - 129	10	30
Bromoform	0.0500	0.0524		mg/Kg		105	68 - 136	12	30
Bromomethane	0.0500	0.0465		mg/Kg		93	70 - 130	8	30
2-Butanone (MEK)	0.0500	0.0387		mg/Kg		77	47 - 138	4	30
Carbon disulfide	0.0500	0.0594		mg/Kg		119	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0593		mg/Kg		119	75 - 125	8	30
Chlorobenzene	0.0500	0.0574		mg/Kg		115	50 - 150	11	30
Chloroethane	0.0500	0.0595		mg/Kg		119	75 - 125	6	30
Chloroform	0.0500	0.0527		mg/Kg		105	57 - 135	9	30
Chloromethane	0.0500	0.0556		mg/Kg		111	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 125	9	30
cis-1,3-Dichloropropene	0.0500	0.0463		mg/Kg		93	70 - 125	13	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0622		mg/Kg		124	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130	9	30
1,1-Dichloroethene	0.0500	0.0583		mg/Kg		117	70 - 120	7	30
1,2-Dichloropropane	0.0500	0.0580		mg/Kg		116	70 - 125	10	30
Ethylbenzene	0.0500	0.0600		mg/Kg		120	61 - 136	11	30
2-Hexanone	0.0500	0.0413		mg/Kg		83	48 - 146	9	30
Methylene Chloride	0.0500	0.0520		mg/Kg		104	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0409		mg/Kg		82	50 - 148	11	30
Methyl tert-butyl ether	0.0500	0.0434		mg/Kg		87	50 - 140	11	30
Styrene	0.0500	0.0578		mg/Kg		116	70 - 125	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0457		mg/Kg		91	70 - 122	12	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	11	30
Toluene	0.0500	0.0582		mg/Kg		116	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0592		mg/Kg		118	70 - 125	9	30
trans-1,3-Dichloropropene	0.0500	0.0431		mg/Kg		86	70 - 125	12	30
1,1,1-Trichloroethane	0.0500	0.0559		mg/Kg		112	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0502		mg/Kg		100	70 - 125	13	30
Trichloroethene	0.0500	0.0598		mg/Kg		120	70 - 125	9	30
Vinyl acetate	0.0500	0.0333		mg/Kg		67	40 - 153	0	30
Vinyl chloride	0.0500	0.0613		mg/Kg		123	70 - 125	7	30
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147	11	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: MB 500-579174/1-A

Matrix: Solid

Analysis Batch: 579272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 579174

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/30/20 16:55	12/31/20 10:19	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: MB 500-579174/1-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/30/20 16:55	12/31/20 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		43 - 145	12/30/20 16:55	12/31/20 10:19	1
2-Fluorophenol	66		31 - 166	12/30/20 16:55	12/31/20 10:19	1
Nitrobenzene-d5	82		37 - 147	12/30/20 16:55	12/31/20 10:19	1
Phenol-d5	74		30 - 153	12/30/20 16:55	12/31/20 10:19	1
Terphenyl-d14	90		42 - 157	12/30/20 16:55	12/31/20 10:19	1
2,4,6-Tribromophenol	69		31 - 143	12/30/20 16:55	12/31/20 10:19	1

Lab Sample ID: LCS 500-579174/2-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.23		mg/Kg		93	65 - 124
Acenaphthylene	1.33	1.21		mg/Kg		91	68 - 120
Anthracene	1.33	1.22		mg/Kg		91	70 - 114
Benzo[a]anthracene	1.33	1.10		mg/Kg		83	67 - 122
Benzo[a]pyrene	1.33	1.31		mg/Kg		98	65 - 133
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	69 - 129
Benzo[g,h,i]perylene	1.33	1.36		mg/Kg		102	72 - 131
Benzo[k]fluoranthene	1.33	1.33		mg/Kg		100	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
Bis(2-chloroethyl)ether	1.33	1.12		mg/Kg		84	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.08		mg/Kg		81	72 - 131
4-Bromophenyl phenyl ether	1.33	1.17		mg/Kg		87	68 - 118
Butyl benzyl phthalate	1.33	1.05		mg/Kg		79	71 - 129
Carbazole	1.33	1.24		mg/Kg		93	65 - 142
4-Chloroaniline	1.33	1.08		mg/Kg		81	30 - 150
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	65 - 122
2-Chloronaphthalene	1.33	1.17		mg/Kg		88	69 - 114
2-Chlorophenol	1.33	0.970		mg/Kg		73	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: LCS 500-579174/2-A

Matrix: Solid

Analysis Batch: 579272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 579174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.20		mg/Kg		90	62 - 119
Chrysene	1.33	1.13		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.22		mg/Kg		91	66 - 115
1,2-Dichlorobenzene	1.33	1.02		mg/Kg		77	62 - 110
1,3-Dichlorobenzene	1.33	0.965		mg/Kg		72	65 - 124
1,4-Dichlorobenzene	1.33	0.990		mg/Kg		74	61 - 110
3,3'-Dichlorobenzidine	1.33	0.800		mg/Kg		60	35 - 128
2,4-Dichlorophenol	1.33	1.10		mg/Kg		82	58 - 120
Diethyl phthalate	1.33	1.39		mg/Kg		104	58 - 120
2,4-Dimethylphenol	1.33	1.05		mg/Kg		79	60 - 110
Dimethyl phthalate	1.33	1.29		mg/Kg		97	69 - 116
Di-n-butyl phthalate	1.33	1.19		mg/Kg		90	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.819		mg/Kg		31	10 - 110
2,4-Dinitrophenol	2.67	0.676		mg/Kg		25	10 - 100
2,4-Dinitrotoluene	1.33	1.29		mg/Kg		96	69 - 124
2,6-Dinitrotoluene	1.33	1.25		mg/Kg		94	70 - 123
Di-n-octyl phthalate	1.33	1.14		mg/Kg		86	68 - 134
Fluoranthene	1.33	1.24		mg/Kg		93	62 - 120
Fluorene	1.33	1.22		mg/Kg		92	62 - 120
Hexachlorobenzene	1.33	1.32		mg/Kg		99	63 - 124
Hexachlorobutadiene	1.33	1.14		mg/Kg		86	56 - 120
Hexachlorocyclopentadiene	1.33	0.651	J	mg/Kg		49	10 - 133
Hexachloroethane	1.33	1.03		mg/Kg		77	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.37		mg/Kg		103	68 - 130
Isophorone	1.33	1.32		mg/Kg		99	55 - 110
2-Methylnaphthalene	1.33	1.09		mg/Kg		81	69 - 112
2-Methylphenol	1.33	1.10		mg/Kg		83	60 - 120
3 & 4 Methylphenol	1.33	1.09		mg/Kg		82	57 - 120
Naphthalene	1.33	1.10		mg/Kg		83	63 - 110
2-Nitroaniline	1.33	1.38		mg/Kg		103	57 - 124
3-Nitroaniline	1.33	1.08		mg/Kg		81	40 - 122
4-Nitroaniline	1.33	1.14		mg/Kg		86	60 - 160
Nitrobenzene	1.33	1.20		mg/Kg		90	60 - 116
2-Nitrophenol	1.33	1.06		mg/Kg		80	60 - 120
4-Nitrophenol	2.67	2.88		mg/Kg		108	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.17		mg/Kg		88	56 - 118
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.25		mg/Kg		94	40 - 124
Pentachlorophenol	2.67	1.60		mg/Kg		60	13 - 112
Phenanthrene	1.33	1.19		mg/Kg		89	62 - 120
Phenol	1.33	1.11		mg/Kg		83	56 - 122
Pyrene	1.33	1.15		mg/Kg		86	61 - 128
1,2,4-Trichlorobenzene	1.33	1.07		mg/Kg		80	66 - 117
2,4,5-Trichlorophenol	1.33	1.24		mg/Kg		93	50 - 120
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: LCS 500-579174/2-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579174

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	110		43 - 145
2-Fluorophenol	77		31 - 166
Nitrobenzene-d5	99		37 - 147
Phenol-d5	90		30 - 153
Terphenyl-d14	92		42 - 157
2,4,6-Tribromophenol	89		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578769/1-A
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578769

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Barium	<0.11		1.0	0.11	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Copper	<0.28		1.0	0.28	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Iron	<10		20	10	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Lead	<0.23		0.50	0.23	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Magnesium	5.58	J	10	5.0	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Calcium	10.6	J	20	3.4	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Manganese	0.201	J	1.0	0.15	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Silver	<0.13		0.50	0.13	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Zinc	1.15	J	2.0	0.88	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Potassium	<18		50	18	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Sodium	<15		100	15	mg/Kg		12/28/20 18:57	12/31/20 01:28	1

Lab Sample ID: LCS 500-578769/2-A
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578769

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	44.1		mg/Kg		88		80 - 120
Arsenic	10.0	9.30		mg/Kg		93		80 - 120
Barium	200	195		mg/Kg		98		80 - 120
Beryllium	5.00	4.85		mg/Kg		97		80 - 120
Cadmium	5.00	4.58		mg/Kg		92		80 - 120
Chromium	20.0	19.2		mg/Kg		96		80 - 120
Cobalt	50.0	49.5		mg/Kg		99		80 - 120
Copper	25.0	24.1		mg/Kg		96		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: LCS 500-578769/2-A
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	98.4		mg/Kg		98	80 - 120
Lead	10.0	9.38		mg/Kg		94	80 - 120
Magnesium	1000	950		mg/Kg		95	80 - 120
Calcium	1000	980		mg/Kg		98	80 - 120
Manganese	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Selenium	10.0	8.13		mg/Kg		81	80 - 120
Silver	5.00	4.52		mg/Kg		90	80 - 120
Thallium	10.0	9.48		mg/Kg		95	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	47.8		mg/Kg		96	80 - 120
Potassium	1000	924		mg/Kg		92	80 - 120
Sodium	1000	954		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-579183/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.489	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0470		mg/L		94	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.209		mg/L		104	80 - 120
Cobalt	0.500	0.525		mg/L		105	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	8.94		mg/L		89	80 - 120
Calcium	10.0	9.53		mg/L		95	80 - 120
Manganese	0.500	0.457		mg/L		91	80 - 120
Nickel	0.500	0.521		mg/L		104	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Silver	0.0500	0.0548		mg/L		110	80 - 120
Vanadium	0.500	0.530		mg/L		106	80 - 120
Zinc	0.500	0.574		mg/L		115	80 - 120
Potassium	10.0	10.9		mg/L		109	80 - 120

Lab Sample ID: LCS 500-579184/2-A
Matrix: Solid
Analysis Batch: 579386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.107		mg/L		107	80 - 120
Barium	0.500	0.502		mg/L		100	80 - 120
Beryllium	0.0500	0.0484		mg/L		97	80 - 120
Cadmium	0.0500	0.0496		mg/L		99	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: LCS 500-579184/2-A
Matrix: Solid
Analysis Batch: 579386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.250	0.254		mg/L		102	80 - 120
Iron	1.00	1.28	*+	mg/L		128	80 - 120
Lead	0.100	0.0979		mg/L		98	80 - 120
Magnesium	10.0	9.25		mg/L		92	80 - 120
Calcium	10.0	9.81		mg/L		98	80 - 120
Manganese	0.500	0.472		mg/L		94	80 - 120
Nickel	0.500	0.520		mg/L		104	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Silver	0.0500	0.0530		mg/L		106	80 - 120
Vanadium	0.500	0.505		mg/L		101	80 - 120
Zinc	0.500	0.581		mg/L		116	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCS 500-579186/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0931		mg/L		93	80 - 120
Manganese	0.500	0.471		mg/L		94	80 - 120

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Barium	<0.050		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 22:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 22:03	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Iron	<0.20		0.60	0.20	mg/L		12/30/20 17:33	12/31/20 22:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 22:03	1
Magnesium	<0.50		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1
Calcium	<0.50		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Potassium	<0.50		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: 500-192811-3 MS

Matrix: Solid

Analysis Batch: 579387

Client Sample ID: 3972-COV-13-B02 (7.5-15)

Prep Type: TCLP

Prep Batch: 579183

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Arsenic	<0.010		0.100	0.113		mg/L		113		75 - 125
Barium	0.35	J	0.500	0.857		mg/L		102		75 - 125
Beryllium	<0.0040		0.0500	0.0500		mg/L		100		75 - 125
Cadmium	<0.0020		0.0500	0.0540		mg/L		108		75 - 125
Chromium	<0.010		0.200	0.195		mg/L		98		75 - 125
Cobalt	0.027		0.500	0.558		mg/L		106		75 - 125
Copper	0.011	J	0.250	0.267		mg/L		102		75 - 125
Iron	<0.20		1.00	0.917		mg/L		92		75 - 125
Lead	<0.0075		0.100	0.0998		mg/L		100		75 - 125
Magnesium	83		10.0	97.4	4	mg/L		141		75 - 125
Calcium	530		10.0	564	4	mg/L		386		75 - 125
Manganese	1.1		0.500	1.62		mg/L		106		75 - 125
Nickel	0.055		0.500	0.579		mg/L		105		75 - 125
Selenium	<0.020		0.100	0.115		mg/L		115		75 - 125
Silver	<0.010		0.0500	0.0535		mg/L		107		75 - 125
Vanadium	<0.010		0.500	0.506		mg/L		101		75 - 125
Zinc	0.027	J	0.500	0.567		mg/L		108		75 - 125
Potassium	3.7		10.0	15.3		mg/L		117		75 - 125

Lab Sample ID: 500-192811-3 DU

Matrix: Solid

Analysis Batch: 579387

Client Sample ID: 3972-COV-13-B02 (7.5-15)

Prep Type: TCLP

Prep Batch: 579183

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Arsenic	<0.010		<0.010		mg/L		NC		20
Barium	0.35	J	0.352	J	mg/L		2		20
Beryllium	<0.0040		<0.0040		mg/L		NC		20
Cadmium	<0.0020		0.00219	J	mg/L		NC		20
Chromium	<0.010		<0.010		mg/L		NC		20
Cobalt	0.027		0.0270		mg/L		0.1		20
Copper	0.011	J	0.0121	J	mg/L		7		20
Iron	<0.20		1.13		mg/L		NC		20
Lead	<0.0075		<0.0075		mg/L		NC		20
Magnesium	83		83.7		mg/L		0.5		20
Calcium	530		523		mg/L		0.5		20
Manganese	1.1		1.12		mg/L		2		20
Nickel	0.055		0.0576		mg/L		4		20
Selenium	<0.020		<0.020		mg/L		NC		20
Silver	<0.010		<0.010		mg/L		NC		20
Vanadium	<0.010		<0.010		mg/L		NC		20
Zinc	0.027	J	<0.020		mg/L		NC		20
Potassium	3.7		3.71		mg/L		1		20

Lab Sample ID: LB 500-579024/1-C

Matrix: Solid

Analysis Batch: 579386

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 579184

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:35	12/31/20 17:07	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: LB 500-579024/1-C
Matrix: Solid
Analysis Batch: 579386

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579184

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.050		0.50	0.050	mg/L		12/30/20 17:35	12/31/20 17:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:35	12/31/20 17:07	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:35	12/31/20 17:07	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:07	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:07	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:07	1
Iron	0.284	J	0.60	0.20	mg/L		12/30/20 17:35	12/31/20 17:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:35	12/31/20 17:07	1
Magnesium	<0.50		2.5	0.50	mg/L		12/30/20 17:35	12/31/20 17:07	1
Calcium	<0.50		5.0	0.50	mg/L		12/30/20 17:35	12/31/20 17:07	1
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:07	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:07	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:35	12/31/20 17:07	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:07	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:35	12/31/20 17:07	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:35	12/31/20 17:07	1
Potassium	<0.50		2.5	0.50	mg/L		12/30/20 17:35	12/31/20 17:07	1

Lab Sample ID: LB 500-579026/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579186

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:38	01/01/21 01:23	1
Manganese	0.0145	J	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:23	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579183/2-A
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LCS 500-579184/2-A
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:03	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

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

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:03	1

Lab Sample ID: 500-192811-3 MS
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: 3972-COV-13-B02 (7.5-15)
Prep Type: TCLP
Prep Batch: 579183

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060		0.500	0.485		mg/L		97	75 - 125
Thallium	<0.0020		0.100	0.105		mg/L		105	75 - 125

Lab Sample ID: 500-192811-3 DU
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: 3972-COV-13-B02 (7.5-15)
Prep Type: TCLP
Prep Batch: 579183

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: LB 500-579024/1-C
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579184

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:35	12/31/20 12:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:35	12/31/20 12:37	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579156/12-A
Matrix: Solid
Analysis Batch: 579317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:40	1

Lab Sample ID: LCS 500-579156/14-A
Matrix: Solid
Analysis Batch: 579317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00203		mg/L		101	80 - 120

Lab Sample ID: LB 500-579022/2-B
Matrix: Solid
Analysis Batch: 579317

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:42	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-579024/1-B
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 11:20	1

Lab Sample ID: 500-192811-1 MS
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: 3972-COV-13-B01 (0-3)
 Prep Type: TCLP
 Prep Batch: 579156

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000754		mg/L		75	75 - 125

Lab Sample ID: 500-192811-1 DU
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: 3972-COV-13-B01 (0-3)
 Prep Type: TCLP
 Prep Batch: 579156

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

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578677/12-A
 Matrix: Solid
 Analysis Batch: 578879

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/28/20 13:30	12/29/20 08:31	1

Lab Sample ID: LCS 500-578677/13-A
 Matrix: Solid
 Analysis Batch: 578879

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.173		mg/Kg		104	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578662/1-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/28/20 10:55	12/28/20 12:39	1

Lab Sample ID: HLCS 500-578662/2-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.3		mg/Kg		102	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 500-578662/3-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.65		mg/Kg		110	85 - 115

Lab Sample ID: LLCS 500-578662/4-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.40		mg/Kg		117	75 - 125



QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

GC/MS VOA

Prep Batch: 578399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	5035	
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	5035	
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	5035	
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	5035	
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	5035	

Analysis Batch: 579020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	8260B	578399
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	8260B	578399
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	8260B	578399
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	8260B	578399
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	8260B	578399
MB 500-579020/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-579020/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-579020/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 579174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	3541	
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	3541	
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	3541	
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	3541	
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	3541	
MB 500-579174/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-579174/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 579272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	8270D	579174
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	8270D	579174
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	8270D	579174
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	8270D	579174
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	8270D	579174
MB 500-579174/1-A	Method Blank	Total/NA	Solid	8270D	579174
LCS 500-579174/2-A	Lab Control Sample	Total/NA	Solid	8270D	579174

Metals

Prep Batch: 578677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	7471B	
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	7471B	
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	7471B	
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	7471B	
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	7471B	
MB 500-578677/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578677/13-A	Lab Control Sample	Total/NA	Solid	7471B	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Metals

Prep Batch: 578769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	3050B	
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	3050B	
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	3050B	
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	3050B	
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	3050B	
MB 500-578769/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578769/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 578879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	7471B	578677
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	7471B	578677
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	7471B	578677
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	7471B	578677
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	7471B	578677
MB 500-578677/12-A	Method Blank	Total/NA	Solid	7471B	578677
LCS 500-578677/13-A	Lab Control Sample	Total/NA	Solid	7471B	578677

Leach Batch: 579022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	TCLP	Solid	1311	
500-192811-2	3972-COV-13-B02 (0-7.5)	TCLP	Solid	1311	
500-192811-3	3972-COV-13-B02 (7.5-15)	TCLP	Solid	1311	
LB 500-579022/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579022/2-B	Method Blank	TCLP	Solid	1311	
500-192811-1 MS	3972-COV-13-B01 (0-3)	TCLP	Solid	1311	
500-192811-3 MS	3972-COV-13-B02 (7.5-15)	TCLP	Solid	1311	
500-192811-1 DU	3972-COV-13-B01 (0-3)	TCLP	Solid	1311	
500-192811-3 DU	3972-COV-13-B02 (7.5-15)	TCLP	Solid	1311	

Leach Batch: 579024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-4	3972-COV-13-B03 (0-7)	TCLP	Solid	1311	
500-192811-5	3972-COV-13-B03 (7-13)	TCLP	Solid	1311	
LB 500-579024/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579024/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 579026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	SPLP East	Solid	1312	
500-192811-2	3972-COV-13-B02 (0-7.5)	SPLP East	Solid	1312	
500-192811-3	3972-COV-13-B02 (7.5-15)	SPLP East	Solid	1312	
500-192811-4	3972-COV-13-B03 (0-7)	SPLP East	Solid	1312	
500-192811-5	3972-COV-13-B03 (7-13)	SPLP East	Solid	1312	
LB 500-579026/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 579156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	TCLP	Solid	7470A	579022
500-192811-2	3972-COV-13-B02 (0-7.5)	TCLP	Solid	7470A	579022
500-192811-3	3972-COV-13-B02 (7.5-15)	TCLP	Solid	7470A	579022

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Metals (Continued)

Prep Batch: 579156 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-4	3972-COV-13-B03 (0-7)	TCLP	Solid	7470A	579024
500-192811-5	3972-COV-13-B03 (7-13)	TCLP	Solid	7470A	579024
LB 500-579022/2-B	Method Blank	TCLP	Solid	7470A	579022
LB 500-579024/1-B	Method Blank	TCLP	Solid	7470A	579024
MB 500-579156/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579156/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-192811-1 MS	3972-COV-13-B01 (0-3)	TCLP	Solid	7470A	579022
500-192811-1 DU	3972-COV-13-B01 (0-3)	TCLP	Solid	7470A	579022

Prep Batch: 579183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	TCLP	Solid	3010A	579022
500-192811-2	3972-COV-13-B02 (0-7.5)	TCLP	Solid	3010A	579022
500-192811-3	3972-COV-13-B02 (7.5-15)	TCLP	Solid	3010A	579022
LB 500-579022/1-B	Method Blank	TCLP	Solid	3010A	579022
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-192811-3 MS	3972-COV-13-B02 (7.5-15)	TCLP	Solid	3010A	579022
500-192811-3 DU	3972-COV-13-B02 (7.5-15)	TCLP	Solid	3010A	579022

Prep Batch: 579184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-4	3972-COV-13-B03 (0-7)	TCLP	Solid	3010A	579024
500-192811-5	3972-COV-13-B03 (7-13)	TCLP	Solid	3010A	579024
LB 500-579024/1-C	Method Blank	TCLP	Solid	3010A	579024
LCS 500-579184/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 579186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	SPLP East	Solid	3010A	579026
500-192811-2	3972-COV-13-B02 (0-7.5)	SPLP East	Solid	3010A	579026
500-192811-3	3972-COV-13-B02 (7.5-15)	SPLP East	Solid	3010A	579026
500-192811-4	3972-COV-13-B03 (0-7)	SPLP East	Solid	3010A	579026
500-192811-5	3972-COV-13-B03 (7-13)	SPLP East	Solid	3010A	579026
LB 500-579026/1-B	Method Blank	SPLP East	Solid	3010A	579026
LCS 500-579186/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	6010B	578769
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	6010B	578769
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	6010B	578769
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	6010B	578769
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	6010B	578769
MB 500-578769/1-A	Method Blank	Total/NA	Solid	6010B	578769
LCS 500-578769/2-A	Lab Control Sample	Total/NA	Solid	6010B	578769

Analysis Batch: 579317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	TCLP	Solid	7470A	579156
500-192811-2	3972-COV-13-B02 (0-7.5)	TCLP	Solid	7470A	579156
500-192811-3	3972-COV-13-B02 (7.5-15)	TCLP	Solid	7470A	579156

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Metals (Continued)

Analysis Batch: 579317 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-4	3972-COV-13-B03 (0-7)	TCLP	Solid	7470A	579156
500-192811-5	3972-COV-13-B03 (7-13)	TCLP	Solid	7470A	579156
LB 500-579022/2-B	Method Blank	TCLP	Solid	7470A	579156
LB 500-579024/1-B	Method Blank	TCLP	Solid	7470A	579156
MB 500-579156/12-A	Method Blank	Total/NA	Solid	7470A	579156
LCS 500-579156/14-A	Lab Control Sample	Total/NA	Solid	7470A	579156
500-192811-1 MS	3972-COV-13-B01 (0-3)	TCLP	Solid	7470A	579156
500-192811-1 DU	3972-COV-13-B01 (0-3)	TCLP	Solid	7470A	579156

Analysis Batch: 579325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	TCLP	Solid	6020A	579183
500-192811-2	3972-COV-13-B02 (0-7.5)	TCLP	Solid	6020A	579183
500-192811-3	3972-COV-13-B02 (7.5-15)	TCLP	Solid	6020A	579183
500-192811-4	3972-COV-13-B03 (0-7)	TCLP	Solid	6020A	579184
500-192811-5	3972-COV-13-B03 (7-13)	TCLP	Solid	6020A	579184
LB 500-579022/1-B	Method Blank	TCLP	Solid	6020A	579183
LB 500-579024/1-C	Method Blank	TCLP	Solid	6020A	579184
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	6020A	579183
LCS 500-579184/2-A	Lab Control Sample	Total/NA	Solid	6020A	579184
500-192811-3 MS	3972-COV-13-B02 (7.5-15)	TCLP	Solid	6020A	579183
500-192811-3 DU	3972-COV-13-B02 (7.5-15)	TCLP	Solid	6020A	579183

Analysis Batch: 579386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	6010B	578769
500-192811-4	3972-COV-13-B03 (0-7)	TCLP	Solid	6010B	579184
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	6010B	578769
500-192811-5	3972-COV-13-B03 (7-13)	TCLP	Solid	6010B	579184
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	6010B	578769
LB 500-579024/1-C	Method Blank	TCLP	Solid	6010B	579184
LCS 500-579184/2-A	Lab Control Sample	Total/NA	Solid	6010B	579184

Analysis Batch: 579387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	SPLP East	Solid	6010B	579186
500-192811-1	3972-COV-13-B01 (0-3)	TCLP	Solid	6010B	579183
500-192811-2	3972-COV-13-B02 (0-7.5)	SPLP East	Solid	6010B	579186
500-192811-2	3972-COV-13-B02 (0-7.5)	TCLP	Solid	6010B	579183
500-192811-3	3972-COV-13-B02 (7.5-15)	SPLP East	Solid	6010B	579186
500-192811-3	3972-COV-13-B02 (7.5-15)	TCLP	Solid	6010B	579183
500-192811-4	3972-COV-13-B03 (0-7)	SPLP East	Solid	6010B	579186
500-192811-5	3972-COV-13-B03 (7-13)	SPLP East	Solid	6010B	579186
LB 500-579022/1-B	Method Blank	TCLP	Solid	6010B	579183
LB 500-579026/1-B	Method Blank	SPLP East	Solid	6010B	579186
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	6010B	579183
LCS 500-579186/2-A	Lab Control Sample	Total/NA	Solid	6010B	579186
500-192811-3 MS	3972-COV-13-B02 (7.5-15)	TCLP	Solid	6010B	579183
500-192811-3 DU	3972-COV-13-B02 (7.5-15)	TCLP	Solid	6010B	579183

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

General Chemistry

Analysis Batch: 578275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	Moisture	
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	Moisture	
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	Moisture	
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	Moisture	
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	9045D	
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	9045D	
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	9045D	
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	9045D	
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	9010C	
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	9010C	
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	9010C	
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	9010C	
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	9010C	
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192811-1	3972-COV-13-B01 (0-3)	Total/NA	Solid	9012B	578662
500-192811-2	3972-COV-13-B02 (0-7.5)	Total/NA	Solid	9012B	578662
500-192811-3	3972-COV-13-B02 (7.5-15)	Total/NA	Solid	9012B	578662
500-192811-4	3972-COV-13-B03 (0-7)	Total/NA	Solid	9012B	578662
500-192811-5	3972-COV-13-B03 (7-13)	Total/NA	Solid	9012B	578662
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9012B	578662
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9012B	578662

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B01 (0-3)

Lab Sample ID: 500-192811-1

Date Collected: 12/18/20 11:45

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 01:43	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 23:15	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:21	FXG	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 11:05	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:38	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Client Sample ID: 3972-COV-13-B01 (0-3)

Lab Sample ID: 500-192811-1

Date Collected: 12/18/20 11:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 10:28	PMF	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579272	12/31/20 11:10	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:43	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 09:06	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:20	PSP	TAL CHI

Client Sample ID: 3972-COV-13-B02 (0-7.5)

Lab Sample ID: 500-192811-2

Date Collected: 12/18/20 11:10

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 01:46	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 23:25	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:27	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (0-7.5)

Lab Sample ID: 500-192811-2

Date Collected: 12/18/20 11:10

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 11:16	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:40	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Client Sample ID: 3972-COV-13-B02 (0-7.5)

Lab Sample ID: 500-192811-2

Date Collected: 12/18/20 11:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 10:53	PMF	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579272	12/31/20 13:18	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:47	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 09:08	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:21	PSP	TAL CHI

Client Sample ID: 3972-COV-13-B02 (7.5-15)

Lab Sample ID: 500-192811-3

Date Collected: 12/18/20 11:15

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 01:49	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 23:28	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:29	FXG	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 11:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:43	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B02 (7.5-15)

Lab Sample ID: 500-192811-3

Date Collected: 12/18/20 11:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 11:19	PMF	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579272	12/31/20 12:52	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:50	EEN	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579386	12/31/20 18:35	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 09:10	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:23	PSP	TAL CHI

Client Sample ID: 3972-COV-13-B03 (0-7)

Lab Sample ID: 500-192811-4

Date Collected: 12/18/20 10:15

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 01:53	EEN	TAL CHI
TCLP	Leach	1311			579024	12/29/20 16:20	CMS	TAL CHI
TCLP	Prep	3010A			579184	12/30/20 17:35	BDE	TAL CHI
TCLP	Analysis	6010B		1	579386	12/31/20 17:13	EEN	TAL CHI
TCLP	Leach	1311			579024	12/29/20 16:20	CMS	TAL CHI
TCLP	Prep	3010A			579184	12/30/20 17:35	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:41	FXG	TAL CHI
TCLP	Leach	1311			579024	12/29/20 16:20	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 11:23	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:48	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Client Sample ID: 3972-COV-13-B03 (0-7)

Lab Sample ID: 500-192811-4

Date Collected: 12/18/20 10:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 11:44	PMF	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579272	12/31/20 11:36	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:53	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Client Sample ID: 3972-COV-13-B03 (0-7)

Lab Sample ID: 500-192811-4

Date Collected: 12/18/20 10:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579386	12/31/20 18:38	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 09:12	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:25	PSP	TAL CHI

Client Sample ID: 3972-COV-13-B03 (7-13)

Lab Sample ID: 500-192811-5

Date Collected: 12/18/20 10:20

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 02:02	EEN	TAL CHI
TCLP	Leach	1311			579024	12/29/20 16:20	CMS	TAL CHI
TCLP	Prep	3010A			579184	12/30/20 17:35	BDE	TAL CHI
TCLP	Analysis	6010B		1	579386	12/31/20 17:17	EEN	TAL CHI
TCLP	Leach	1311			579024	12/29/20 16:20	CMS	TAL CHI
TCLP	Prep	3010A			579184	12/30/20 17:35	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:43	FXG	TAL CHI
TCLP	Leach	1311			579024	12/29/20 16:20	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 11:25	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:50	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578275	12/23/20 10:03	LWN	TAL CHI

Client Sample ID: 3972-COV-13-B03 (7-13)

Lab Sample ID: 500-192811-5

Date Collected: 12/18/20 10:20

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 12:09	PMF	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579272	12/31/20 12:01	AJD	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:56	EEN	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579386	12/31/20 18:42	EEN	TAL CHI
Total/NA	Prep	7471B			578677	12/28/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578879	12/29/20 09:17	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:27	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Laboratory References:

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

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192811-1	3972-COV-13-B01 (0-3)	Solid	12/18/20 11:45	12/18/20 17:50	
500-192811-2	3972-COV-13-B02 (0-7.5)	Solid	12/18/20 11:10	12/18/20 17:50	
500-192811-3	3972-COV-13-B02 (7.5-15)	Solid	12/18/20 11:15	12/18/20 17:50	
500-192811-4	3972-COV-13-B03 (0-7)	Solid	12/18/20 10:15	12/18/20 17:50	
500-192811-5	3972-COV-13-B03 (7-13)	Solid	12/18/20 10:20	12/18/20 17:50	

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: <i>Rich O'Brien</i>		Site Contact:		Date: <i>12/18/2020</i>		COC No:	
Company Name: <i>TERRACON</i>		Tel/Email: <i>rich.o'brien@terracon.com</i>		Lab Contact:		Carrier:		1 of 1 COCs	
Address: <i>192 Exchange Blvd</i>		Analysis Turnaround Time		Filtered Sample (Y/N) <i>UOC's</i> Perform MS / MSD (Y/N) <i>SUBC's</i> <i>Total 23 Inorganics / PH</i> <i>TEL 23 Inorganics</i> <i>SPL 23 Inorganics</i>		 500-192811 COC		Sampler: <i>R. G. PT</i>	
City/State/Zip: <i>Glendale Heights IL</i>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS						For Lab Use Only:	
Phone: <i>630-445-0600</i>		TAT if different from Below _____						Walk-in Client:	
Fax:		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling:	
Project Name: <i>11207011W</i>								Job / SDG No.:	
Site: <i>11207011W</i>								<i>500-192811</i>	
P O #								Sample Specific Notes:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)		
<i>1 3972-COV-13-B01 (0-3)</i>	<i>12/18/20</i>	<i>1145</i>	<i>G</i>	<i>So.</i>	<i>6</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>
<i>2 3972-COV-13-B02 (0-7.5)</i>	<i>12/18/20</i>	<i>1110</i>	<i>G</i>	<i>So.</i>	<i>6</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>
<i>3 3972-COV-13-B02 (7.5-15)</i>	<i>12/18/20</i>	<i>1115</i>	<i>G</i>	<i>So.</i>	<i>6</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>
<i>4 3972-COV-13-B03 (0-7)</i>	<i>12/18/20</i>	<i>1015</i>	<i>G</i>	<i>So.</i>	<i>6</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>
<i>5 3972-COV-13-B03 (7-13)</i>	<i>12/18/20</i>	<i>1020</i>	<i>G</i>	<i>So.</i>	<i>6</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments: <i>* NO Aluminum * Hold SPL 23 Inorganics per Terracon Instructions</i>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: <i>0.9</i> Corr'd: <i>0.7</i>		Therm ID No.:			
Relinquished by: <i>V. Neel</i>		Company: <i>Terracon</i>		Date/Time: <i>12/18/2020 1600</i>		Received by: <i>P. Neel</i>		Company: <i>ETA</i> Date/Time: <i>12/18/20 1600</i>	
Relinquished by: <i>P. Neel</i>		Company: <i>ETA</i>		Date/Time: <i>12/20/20 1750</i>		Received by:		Company: Date/Time:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>Stephanie Hernandez</i>		Company: <i>ETA (H)</i> Date/Time: <i>12/18/20 1750</i>	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192811-1

Login Number: 192811

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Irving Park Road (Westbound) IDOT STA 95+04 to 96+40, (ISGS 3972-COV-14)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Hanover

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

Latitude: 42.00608 Longitude: -88.14519

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 10

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 3972-COV-14. See Exhibit 2 and Table 21 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192804-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



[Empty box for P.E. or L.P.G. Seal]

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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-14)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-14-B01 (0-3)	3972-COV-14-B01 (0-3) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-3)	(0-3)
					Date Collected	12/18/2020	12/18/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		<0.0071	0.015
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		0.0097	0.0097
Anthracene	mg/kg	0.25	0.4	12000		0.055	0.034
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.21	0.14
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.25	0.17
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.35	0.26
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.11	0.077
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.15	0.098
Chrysene	mg/kg	1.2	2.7	88		0.24	0.16
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.019	0.014
Fluoranthene	mg/kg	2.7	4.1	3100		0.46	0.31
Fluorene	mg/kg	0.1	0.18	560		0.013	0.010
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.097	0.071
Naphthalene	mg/kg	0.04	0.2	1.8		0.0070	<0.0058
Phenanthrene	mg/kg	1.3	2.5	210		0.23	0.17
Pyrene	mg/kg	1.9	3.0	2300		0.48	0.32
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.2	8.7
Barium	mg/kg	---	110	1500		65	67
Cadmium	mg/kg	---	0.6	5.2		0.074	0.042
Chromium, total	mg/kg	---	16.2	21		15	17
Lead	mg/kg	---	36	107		27	31
Mercury	mg/kg	---	0.06	0.89		0.073	0.033
Selenium	mg/kg	---	0.48	1.3		<0.32	<0.33
Silver	mg/kg	---	0.55	4.4		0.11	0.27
Antimony	mg/kg	---	4.0	5		<0.21	<0.22
Beryllium	mg/kg	---	0.59	22		0.62	0.74
Calcium	mg/kg	---	9,300	---		45000	33000
Cobalt	mg/kg	---	8.9	20		11	14
Copper	mg/kg	---	19.6	2900		19	27
Cyanide	mg/kg	---	0.51	---		0.16	<0.14
Iron	mg/kg	---	15,900	15000		17000	20000
Magnesium	mg/kg	---	4,820	325000		26000	21000
Manganese	mg/kg	---	636	630		370	390
Nickel	mg/kg	---	18	100		25	31
Potassium	mg/kg	---	1,268	---		2000	2400
Sodium	mg/kg	---	130	---		170	170
Thallium	mg/kg	---	0.32	2.6		<0.27	0.29
Vanadium	mg/kg	---	25.2	550		22	25
Zinc	mg/kg	---	95	5100		67	84
pH			6.25	9		8.4	8.1

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-14)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-14-B01 (0-3)	3972-COV-14-B01 (0-3) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-3)	(0-3)
					Date Collected	12/18/2020	12/18/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		--	--
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.54	0.55
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		440	440
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		140	120
Manganese,TCLP	mg/L	---	---	---		0.11	0.067
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		3.1	3.1
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.021	<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192804-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
1/4/2021 1:37:12 PM

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

LINKS

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Job ID: 500-192804-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192804-1

Receipt

The samples were received on 12/18/2020 5:50 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.6° C, 0.6° C and 0.7° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-578962 was outside the method criteria for the following analyte(s): Bis(2-chloroethoxy)methane, Hexachlorobenzene, Hexachlorobutadiene and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3)

Lab Sample ID: 500-192804-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0097	J	0.035	0.0064	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.055		0.035	0.0060	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.21		0.035	0.0048	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.25		0.035	0.0069	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.35		0.035	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.11		0.035	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.035	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.24		0.035	0.0097	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.019	J	0.035	0.0069	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.46		0.035	0.0066	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.013	J	0.035	0.0050	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.097		0.035	0.0092	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.072	0.0066	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0070	J	0.035	0.0055	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.23		0.035	0.0050	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.48		0.035	0.0071	mg/Kg	1	✳	8270D	Total/NA
Arsenic	7.2		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	65		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.62		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.074	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	15		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	17000		11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	27		0.55	0.25	mg/Kg	2	✳	6010B	Total/NA
Magnesium	26000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Calcium	45000	B	22	3.7	mg/Kg	2	✳	6010B	Total/NA
Manganese	370		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	25		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Silver	0.11	J	0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.27	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	67		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	170	B	55	8.1	mg/Kg	1	✳	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.073		0.016	0.0054	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.16	J	0.24	0.12	mg/Kg	1	✳	9012B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-14-B01 (0-3) Dup

Lab Sample ID: 500-192804-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.017	0.0073	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.0097	J	0.037	0.0068	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.034	J	0.037	0.0063	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.14		0.037	0.0051	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3) Dup (Continued)

Lab Sample ID: 500-192804-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.17		0.037	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.26		0.037	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.077		0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.098		0.037	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.16		0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.014	J	0.037	0.0073	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.31		0.037	0.0070	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.010	J	0.037	0.0053	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.071		0.037	0.0098	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.076	0.0069	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.17		0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.32		0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Arsenic	8.7		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	67		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.74		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.042	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	27		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	31		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	33000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	390		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Silver	0.27	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.29	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	84		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	170	B	56	8.3	mg/Kg	1	✳	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.067		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.033		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-14-B02 (0-7)

Lab Sample ID: 500-192804-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.016	0.0070	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.096		0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.058		0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.043		0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.049		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.063		0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J	0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.025	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.050		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (0-7) (Continued)

Lab Sample ID: 500-192804-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	0.048	J	0.20	0.046	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.14		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.12		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.015	J	0.078	0.0072	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.010	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.39		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.10		0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Arsenic	7.3		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	59		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.70		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.027	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	21		1.4	0.64	mg/Kg	5	✳	6010B	Total/NA
Magnesium	31000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Calcium	66000	B	55	9.4	mg/Kg	5	✳	6010B	Total/NA
Manganese	460		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Silver	0.10	J	0.28	0.071	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	66		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Sodium	1300	B	55	8.2	mg/Kg	1	✳	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	46		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.057	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.3	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-14-B02 (7-13)

Lab Sample ID: 500-192804-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.9		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	50		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.85		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Chromium	21		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	24		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.57	0.26	mg/Kg	2	✳	6010B	Total/NA
Magnesium	27000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	41000	B	23	3.9	mg/Kg	2	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (7-13) (Continued)

Lab Sample ID: 500-192804-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	700		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	48		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	3900		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	610	B	57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.1	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3)

Lab Sample ID: 500-192804-1

Date Collected: 12/18/20 12:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.016	0.0071	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Carbon disulfide	<0.00084		0.0040	0.00084	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
1,2-Dichloropropene	<0.00042		0.0016	0.00042	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
1,3-Dichloropropene, Total	<0.00057		0.0016	0.00057	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1
Xylenes, Total	<0.00052		0.0032	0.00052	mg/Kg	✳	12/19/20 16:35	12/28/20 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	12/19/20 16:35	12/28/20 12:05	1
Dibromofluoromethane	96		75 - 126	12/19/20 16:35	12/28/20 12:05	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	12/19/20 16:35	12/28/20 12:05	1
Toluene-d8 (Surr)	104		75 - 124	12/19/20 16:35	12/28/20 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0097	J	0.035	0.0064	mg/Kg	✳	12/28/20 17:18	12/29/20 15:54	1
Acenaphthylene	<0.0047		0.035	0.0047	mg/Kg	✳	12/28/20 17:18	12/29/20 15:54	1
Anthracene	0.055		0.035	0.0060	mg/Kg	✳	12/28/20 17:18	12/29/20 15:54	1
Benzo[a]anthracene	0.21		0.035	0.0048	mg/Kg	✳	12/28/20 17:18	12/29/20 15:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3)

Lab Sample ID: 500-192804-1

Date Collected: 12/18/20 12:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.25		0.035	0.0069	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Benzo[b]fluoranthene	0.35		0.035	0.0077	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Benzo[g,h,i]perylene	0.11		0.035	0.011	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Benzo[k]fluoranthene	0.15		0.035	0.011	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Carbazole	<0.089		0.18	0.089	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Chrysene	0.24		0.035	0.0097	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Dibenz(a,h)anthracene	0.019	J	0.035	0.0069	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2,4-Dichlorophenol	<0.085		0.35	0.085	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2,4-Dimethylphenol	<0.14		0.35	0.14	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Fluoranthene	0.46		0.035	0.0066	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Fluorene	0.013	J	0.035	0.0050	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Hexachlorobenzene	<0.0083		0.072	0.0083	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Hexachlorocyclopentadiene	<0.21		0.72	0.21	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Indeno[1,2,3-cd]pyrene	0.097		0.035	0.0092	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Isophorone	<0.040		0.18	0.040	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2-Methylnaphthalene	0.013	J	0.072	0.0066	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Naphthalene	0.0070	J	0.035	0.0055	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
Nitrobenzene	<0.0089		0.035	0.0089	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	✱	12/28/20 17:18	12/29/20 15:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3)

Lab Sample ID: 500-192804-1

Date Collected: 12/18/20 12:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.72	0.34	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
N-Nitrosodi-n-propylamine	<0.044		0.072	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
Pentachlorophenol	<0.57		0.72	0.57	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
Phenanthrene	0.23		0.035	0.0050	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
Phenol	<0.079		0.18	0.079	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
Pyrene	0.48		0.035	0.0071	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
2,4,5-Trichlorophenol	<0.081		0.35	0.081	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	12/28/20 17:18	12/29/20 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145				12/28/20 17:18	12/29/20 15:54	1
2-Fluorophenol	78		31 - 166				12/28/20 17:18	12/29/20 15:54	1
Nitrobenzene-d5	84		37 - 147				12/28/20 17:18	12/29/20 15:54	1
Phenol-d5	74		30 - 153				12/28/20 17:18	12/29/20 15:54	1
Terphenyl-d14	97		42 - 157				12/28/20 17:18	12/29/20 15:54	1
2,4,6-Tribromophenol	73		31 - 143				12/28/20 17:18	12/29/20 15:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21		1.1	0.21	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Arsenic	7.2		0.55	0.19	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Barium	65		0.55	0.063	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Beryllium	0.62		0.22	0.051	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Cadmium	0.074	J B	0.11	0.020	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Chromium	15		0.55	0.27	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Cobalt	11		0.27	0.072	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Copper	19		0.55	0.15	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Iron	17000		11	5.7	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Lead	27		0.55	0.25	mg/Kg	☼	12/29/20 07:22	12/31/20 11:36	2
Magnesium	26000		5.5	2.7	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Calcium	45000	B	22	3.7	mg/Kg	☼	12/29/20 07:22	12/31/20 11:36	2
Manganese	370		0.55	0.080	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Nickel	25		0.55	0.16	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Silver	0.11	J	0.27	0.071	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Vanadium	22		0.27	0.065	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Zinc	67		1.1	0.48	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Potassium	2000		27	9.7	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1
Sodium	170	B	55	8.1	mg/Kg	☼	12/29/20 07:22	12/30/20 20:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:29	12/30/20 17:51	1
Barium	0.54		0.50	0.050	mg/L		12/29/20 17:29	12/30/20 17:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:29	12/30/20 17:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:29	12/30/20 17:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3)

Lab Sample ID: 500-192804-1

Date Collected: 12/18/20 12:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	440		5.0	0.50	mg/L		12/29/20 17:29	12/30/20 17:51	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:51	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:51	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:51	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:29	12/30/20 17:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:29	12/30/20 17:51	1
Magnesium	140		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:51	1
Manganese	0.11		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:51	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:51	1
Potassium	3.1		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:51	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:29	12/30/20 17:51	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:51	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:51	1
Zinc	0.021	J	0.50	0.020	mg/L		12/29/20 17:29	12/30/20 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:29	12/30/20 12:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:29	12/30/20 12:40	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 09:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.016	0.0054	mg/Kg	⊛	12/24/20 11:35	12/28/20 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.16	J	0.24	0.12	mg/Kg	⊛	12/28/20 10:55	12/28/20 13:04	1
pH	8.4		0.2	0.2	SU			12/23/20 15:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3) Dup

Lab Sample ID: 500-192804-2

Date Collected: 12/18/20 12:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015	J	0.017	0.0073	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Carbon disulfide	<0.00087		0.0042	0.00087	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Chloroethane	<0.0012		0.0042	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
1,1-Dichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
1,2-Dichloropropene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
1,3-Dichloropropene, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Ethylbenzene	<0.00080		0.0017	0.00080	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Methylene Chloride	<0.0017		0.0042	0.0017	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
trans-1,2-Dichloroethene	<0.00074		0.0017	0.00074	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Vinyl chloride	<0.00074		0.0017	0.00074	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	12/19/20 16:35	12/28/20 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	12/19/20 16:35	12/28/20 12:30	1
Dibromofluoromethane	97		75 - 126	12/19/20 16:35	12/28/20 12:30	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	12/19/20 16:35	12/28/20 12:30	1
Toluene-d8 (Surr)	95		75 - 124	12/19/20 16:35	12/28/20 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0097	J	0.037	0.0068	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Acenaphthylene	<0.0050		0.037	0.0050	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Anthracene	0.034	J	0.037	0.0063	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Benzo[a]anthracene	0.14		0.037	0.0051	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3) Dup

Lab Sample ID: 500-192804-2

Date Collected: 12/18/20 12:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.17		0.037	0.0073	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Benzo[b]fluoranthene	0.26		0.037	0.0081	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Benzo[g,h,i]perylene	0.077		0.037	0.012	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Benzo[k]fluoranthene	0.098		0.037	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Chrysene	0.16		0.037	0.010	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Dibenz(a,h)anthracene	0.014 J		0.037	0.0073	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Fluoranthene	0.31		0.037	0.0070	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Fluorene	0.010 J		0.037	0.0053	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Indeno[1,2,3-cd]pyrene	0.071		0.037	0.0098	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2-Methylnaphthalene	0.010 J		0.076	0.0069	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3) Dup

Lab Sample ID: 500-192804-2

Date Collected: 12/18/20 12:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Phenanthrene	0.17		0.037	0.0052	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Pyrene	0.32		0.037	0.0075	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		43 - 145				12/28/20 17:18	12/29/20 16:19	1
2-Fluorophenol	88		31 - 166				12/28/20 17:18	12/29/20 16:19	1
Nitrobenzene-d5	88		37 - 147				12/28/20 17:18	12/29/20 16:19	1
Phenol-d5	89		30 - 153				12/28/20 17:18	12/29/20 16:19	1
Terphenyl-d14	105		42 - 157				12/28/20 17:18	12/29/20 16:19	1
2,4,6-Tribromophenol	82		31 - 143				12/28/20 17:18	12/29/20 16:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Arsenic	8.7		0.56	0.19	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Barium	67		0.56	0.064	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Beryllium	0.74		0.22	0.052	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Cadmium	0.042	J B	0.11	0.020	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Chromium	17		0.56	0.28	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Cobalt	14		0.28	0.073	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Copper	27		0.56	0.16	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Iron	20000		11	5.8	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Lead	31		0.28	0.13	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Magnesium	21000		5.6	2.8	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Calcium	33000	B	11	1.9	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Manganese	390		0.56	0.081	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Nickel	31		0.56	0.16	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Silver	0.27	J	0.28	0.072	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Thallium	0.29	J	0.56	0.28	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Vanadium	25		0.28	0.066	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Zinc	84		1.1	0.49	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Potassium	2400		28	9.9	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1
Sodium	170	B	56	8.3	mg/Kg	☼	12/29/20 07:22	12/30/20 20:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:29	12/30/20 17:54	1
Barium	0.55		0.50	0.050	mg/L		12/29/20 17:29	12/30/20 17:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:29	12/30/20 17:54	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:29	12/30/20 17:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3) Dup

Lab Sample ID: 500-192804-2

Date Collected: 12/18/20 12:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	440		5.0	0.50	mg/L		12/29/20 17:29	12/30/20 17:54	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:54	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:54	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:54	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:29	12/30/20 17:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:29	12/30/20 17:54	1
Magnesium	120		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:54	1
Manganese	0.067		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:54	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:54	1
Potassium	3.1		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:54	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:29	12/30/20 17:54	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:54	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:54	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:29	12/30/20 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:29	12/30/20 12:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:29	12/30/20 12:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0061	mg/Kg	⊛	12/24/20 11:35	12/28/20 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	⊛	12/28/20 10:55	12/28/20 13:06	1
pH	8.1		0.2	0.2	SU			12/23/20 15:52	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (0-7)

Lab Sample ID: 500-192804-3

Date Collected: 12/18/20 12:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015	J	0.016	0.0070	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Carbon disulfide	<0.00084		0.0040	0.00084	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
1,2-Dichloropropene	<0.00042		0.0016	0.00042	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
1,3-Dichloropropene, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1
Xylenes, Total	<0.00052		0.0032	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	12/19/20 16:35	12/28/20 12:55	1
Dibromofluoromethane	98		75 - 126	12/19/20 16:35	12/28/20 12:55	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	12/19/20 16:35	12/28/20 12:55	1
Toluene-d8 (Surr)	96		75 - 124	12/19/20 16:35	12/28/20 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.096		0.039	0.0070	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Anthracene	0.058		0.039	0.0065	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Benzo[a]anthracene	0.043		0.039	0.0052	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (0-7)

Lab Sample ID: 500-192804-3

Date Collected: 12/18/20 12:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.049		0.039	0.0075	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Benzo[b]fluoranthene	0.063		0.039	0.0084	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Benzo[g,h,i]perylene	0.028	J	0.039	0.013	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Benzo[k]fluoranthene	0.025	J	0.039	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Chrysene	0.050		0.039	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Dibenzofuran	0.048	J	0.20	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2,4-Dinitrophenol	<0.69		0.78	0.69	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Fluoranthene	0.14		0.039	0.0072	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Fluorene	0.12		0.039	0.0055	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.039	0.010	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2-Methylnaphthalene	0.015	J	0.078	0.0072	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Naphthalene	0.010	J	0.039	0.0060	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (0-7)

Lab Sample ID: 500-192804-3

Date Collected: 12/18/20 12:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
N-Nitrosodi-n-propylamine	<0.048		0.078	0.048	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Phenanthrene	0.39		0.039	0.0054	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Phenol	<0.086		0.20	0.086	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
Pyrene	0.10		0.039	0.0077	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		43 - 145	12/28/20 17:18	12/29/20 14:16	1
2-Fluorophenol	90		31 - 166	12/28/20 17:18	12/29/20 14:16	1
Nitrobenzene-d5	103		37 - 147	12/28/20 17:18	12/29/20 14:16	1
Phenol-d5	88		30 - 153	12/28/20 17:18	12/29/20 14:16	1
Terphenyl-d14	90		42 - 157	12/28/20 17:18	12/29/20 14:16	1
2,4,6-Tribromophenol	114		31 - 143	12/28/20 17:18	12/29/20 14:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Arsenic	7.3		0.55	0.19	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Barium	59		0.55	0.063	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Beryllium	0.70		0.22	0.052	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Cadmium	0.027	J B	0.11	0.020	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Chromium	16		0.55	0.27	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Cobalt	12		0.28	0.072	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Copper	21		0.55	0.15	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Iron	19000		11	5.8	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Lead	21		1.4	0.64	mg/Kg	☼	12/29/20 07:22	12/31/20 11:39	5
Magnesium	31000		5.5	2.7	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Calcium	66000	B	55	9.4	mg/Kg	☼	12/29/20 07:22	12/31/20 11:39	5
Manganese	460		0.55	0.080	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Nickel	28		0.55	0.16	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Selenium	<0.33		0.55	0.33	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Silver	0.10	J	0.28	0.071	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Thallium	<0.28		0.55	0.28	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Vanadium	24		0.28	0.065	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Zinc	66		1.1	0.49	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Potassium	2400		28	9.8	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1
Sodium	1300	B	55	8.2	mg/Kg	☼	12/29/20 07:22	12/30/20 20:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:29	12/30/20 17:58	1
Barium	0.68		0.50	0.050	mg/L		12/29/20 17:29	12/30/20 17:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:29	12/30/20 17:58	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:29	12/30/20 17:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (0-7)

Lab Sample ID: 500-192804-3

Date Collected: 12/18/20 12:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		12/29/20 17:29	12/30/20 17:58	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:58	1
Cobalt	0.020	J	0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:58	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:58	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:29	12/30/20 17:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:29	12/30/20 17:58	1
Magnesium	46		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:58	1
Manganese	8.8		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:58	1
Nickel	0.017	J	0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:58	1
Potassium	2.9		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:58	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:29	12/30/20 17:58	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:58	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:58	1
Zinc	0.057	J	0.50	0.020	mg/L		12/29/20 17:29	12/30/20 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3	B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 02:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:29	12/30/20 12:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:29	12/30/20 12:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0061	mg/Kg	☼	12/24/20 11:35	12/28/20 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☼	12/28/20 10:55	12/28/20 13:08	1
pH	8.1		0.2	0.2	SU			12/23/20 15:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (7-13)

Lab Sample ID: 500-192804-4

Date Collected: 12/18/20 12:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.017	0.0076	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Bromomethane	<0.0016		0.0044	0.0016	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Chloromethane	<0.0017		0.0044	0.0017	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
1,2-Dichloropropene	<0.00045		0.0017	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	12/19/20 16:35	12/28/20 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	12/19/20 16:35	12/28/20 13:20	1
Dibromofluoromethane	100		75 - 126	12/19/20 16:35	12/28/20 13:20	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	12/19/20 16:35	12/28/20 13:20	1
Toluene-d8 (Surr)	94		75 - 124	12/19/20 16:35	12/28/20 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	☼	12/28/20 17:18	12/29/20 13:52	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	12/28/20 17:18	12/29/20 13:52	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	12/28/20 17:18	12/29/20 13:52	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	☼	12/28/20 17:18	12/29/20 13:52	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (7-13)

Lab Sample ID: 500-192804-4

Date Collected: 12/18/20 12:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0078		0.040	0.0078	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Benzo[b]fluoranthene	<0.0087		0.040	0.0087	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Dibenz(a,h)anthracene	<0.0078		0.040	0.0078	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Fluoranthene	<0.0075		0.040	0.0075	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Hexachlorobenzene	<0.0094		0.081	0.0094	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (7-13)

Lab Sample ID: 500-192804-4

Date Collected: 12/18/20 12:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Pentachlorophenol	<0.65		0.81	0.65	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Phenol	<0.090		0.20	0.090	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Pyrene	<0.0080		0.040	0.0080	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☆	12/28/20 17:18	12/29/20 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145				12/28/20 17:18	12/29/20 13:52	1
2-Fluorophenol	88		31 - 166				12/28/20 17:18	12/29/20 13:52	1
Nitrobenzene-d5	95		37 - 147				12/28/20 17:18	12/29/20 13:52	1
Phenol-d5	88		30 - 153				12/28/20 17:18	12/29/20 13:52	1
Terphenyl-d14	86		42 - 157				12/28/20 17:18	12/29/20 13:52	1
2,4,6-Tribromophenol	78		31 - 143				12/28/20 17:18	12/29/20 13:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Arsenic	9.9		0.57	0.19	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Barium	50		0.57	0.065	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Beryllium	0.85		0.23	0.053	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Cadmium	<0.020		0.11	0.020	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Chromium	21		0.57	0.28	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Cobalt	24		0.28	0.074	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Copper	26		0.57	0.16	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Iron	23000		11	5.9	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Lead	16		0.57	0.26	mg/Kg	☆	12/29/20 07:22	12/31/20 11:42	2
Magnesium	27000		5.7	2.8	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Calcium	41000	B	23	3.9	mg/Kg	☆	12/29/20 07:22	12/31/20 11:42	2
Manganese	700		0.57	0.082	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Nickel	48		0.57	0.17	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Selenium	<0.33		0.57	0.33	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Silver	0.14	J	0.28	0.073	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Thallium	<0.28		0.57	0.28	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Vanadium	23		0.28	0.067	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Zinc	64		1.1	0.50	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Potassium	3900		28	10	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1
Sodium	610	B	57	8.4	mg/Kg	☆	12/29/20 07:22	12/30/20 21:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:29	12/30/20 18:01	1
Barium	0.37	J	0.50	0.050	mg/L		12/29/20 17:29	12/30/20 18:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:29	12/30/20 18:01	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:29	12/30/20 18:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (7-13)

Lab Sample ID: 500-192804-4

Date Collected: 12/18/20 12:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		12/29/20 17:29	12/30/20 18:01	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:01	1
Cobalt	0.031		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:01	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:01	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:29	12/30/20 18:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:29	12/30/20 18:01	1
Magnesium	170		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 18:01	1
Manganese	11		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:01	1
Nickel	0.029		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:01	1
Potassium	2.6		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 18:01	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:29	12/30/20 18:01	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:01	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:01	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:29	12/30/20 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.1	B	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 02:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:29	12/30/20 12:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:29	12/30/20 12:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0059	mg/Kg	✱	12/24/20 11:35	12/28/20 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.29	0.14	mg/Kg	✱	12/28/20 10:55	12/28/20 13:09	1
pH	7.8		0.2	0.2	SU			12/23/20 15:57	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192804-1	3972-COV-14-B01 (0-3)	85	96	96	104
500-192804-2	3972-COV-14-B01 (0-3) Dup	85	97	100	95
500-192804-3	3972-COV-14-B02 (0-7)	85	98	100	96
500-192804-4	3972-COV-14-B02 (7-13)	85	100	101	94
LCS 500-578587/4	Lab Control Sample	83	93	86	96
LCS 500-578587/5	Lab Control Sample Dup	75	93	88	111
MB 500-578587/7	Method Blank	87	96	89	94

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192804-1	3972-COV-14-B01 (0-3)	80	78	84	74	97	73
500-192804-2	3972-COV-14-B01 (0-3) Dup	94	88	88	89	105	82
500-192804-3	3972-COV-14-B02 (0-7)	102	90	103	88	90	114
500-192804-4	3972-COV-14-B02 (7-13)	97	88	95	88	86	78
LCS 500-578747/2-A	Lab Control Sample	101	103	102	98	91	105
MB 500-578747/1-A	Method Blank	96	93	98	93	97	97

Surrogate Legend

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: MB 500-578587/7
Matrix: Solid
Analysis Batch: 578587

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/28/20 11:15	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/28/20 11:15	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/28/20 11:15	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/28/20 11:15	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/28/20 11:15	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/28/20 11:15	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/28/20 11:15	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/28/20 11:15	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/28/20 11:15	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/28/20 11:15	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/28/20 11:15	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/28/20 11:15	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/28/20 11:15	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/28/20 11:15	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/28/20 11:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	87		75 - 131		12/28/20 11:15	1
Dibromofluoromethane	96		75 - 126		12/28/20 11:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		12/28/20 11:15	1
Toluene-d8 (Surr)	94		75 - 124		12/28/20 11:15	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: LCS 500-578587/4
Matrix: Solid
Analysis Batch: 578587

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	0.0432		mg/Kg		86	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0444		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0508		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0469		mg/Kg		94	70 - 130
2-Butanone (MEK)	0.0500	0.0383		mg/Kg		77	47 - 138
Carbon disulfide	0.0500	0.0425		mg/Kg		85	70 - 129
Carbon tetrachloride	0.0500	0.0436		mg/Kg		87	75 - 125
Chlorobenzene	0.0500	0.0464		mg/Kg		93	50 - 150
Chloroethane	0.0500	0.0472		mg/Kg		94	75 - 125
Chloroform	0.0500	0.0439		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0389		mg/Kg		78	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0427		mg/Kg		85	70 - 125
1,2-Dichloroethane	0.0500	0.0419		mg/Kg		84	70 - 130
1,1-Dichloroethene	0.0500	0.0432		mg/Kg		86	70 - 120
1,2-Dichloropropane	0.0500	0.0444		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0477		mg/Kg		95	61 - 136
2-Hexanone	0.0500	0.0441		mg/Kg		88	48 - 146
Methylene Chloride	0.0500	0.0438		mg/Kg		88	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0435		mg/Kg		87	50 - 148
Methyl tert-butyl ether	0.0500	0.0402		mg/Kg		80	50 - 140
Styrene	0.0500	0.0456		mg/Kg		91	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0417		mg/Kg		83	70 - 122
Tetrachloroethene	0.0500	0.0507		mg/Kg		101	70 - 124
Toluene	0.0500	0.0443		mg/Kg		89	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0437		mg/Kg		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,1-Trichloroethane	0.0500	0.0428		mg/Kg		86	70 - 128
1,1,2-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 125
Trichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0416		mg/Kg		83	40 - 153
Vinyl chloride	0.0500	0.0375		mg/Kg		75	70 - 125
Xylenes, Total	0.100	0.0858		mg/Kg		86	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	83		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: LCSD 500-578587/5

Matrix: Solid

Analysis Batch: 578587

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	0.0412		mg/Kg		82	40 - 150	5	30
Benzene	0.0500	0.0451		mg/Kg		90	70 - 125	4	30
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	67 - 129	2	30
Bromoform	0.0500	0.0544		mg/Kg		109	68 - 136	7	30
Bromomethane	0.0500	0.0440		mg/Kg		88	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0406		mg/Kg		81	47 - 138	6	30
Carbon disulfide	0.0500	0.0446		mg/Kg		89	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0453		mg/Kg		91	75 - 125	4	30
Chlorobenzene	0.0500	0.0472		mg/Kg		94	50 - 150	2	30
Chloroethane	0.0500	0.0469		mg/Kg		94	75 - 125	1	30
Chloroform	0.0500	0.0458		mg/Kg		92	57 - 135	4	30
Chloromethane	0.0500	0.0408		mg/Kg		82	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 125	5	30
cis-1,3-Dichloropropene	0.0500	0.0538		mg/Kg		108	70 - 125	16	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0421		mg/Kg		84	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0466		mg/Kg		93	70 - 125	5	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136	4	30
2-Hexanone	0.0500	0.0486		mg/Kg		97	48 - 146	10	30
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	12	30
Methyl tert-butyl ether	0.0500	0.0421		mg/Kg		84	50 - 140	5	30
Styrene	0.0500	0.0470		mg/Kg		94	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0366		mg/Kg		73	70 - 122	13	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	16	30
Toluene	0.0500	0.0526		mg/Kg		105	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0468		mg/Kg		94	70 - 125	7	30
trans-1,3-Dichloropropene	0.0500	0.0525		mg/Kg		105	70 - 125	19	30
1,1,1-Trichloroethane	0.0500	0.0448		mg/Kg		90	70 - 128	5	30
1,1,2-Trichloroethane	0.0500	0.0570		mg/Kg		114	70 - 125	16	30
Trichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125	0	30
Vinyl acetate	0.0500	0.0355		mg/Kg		71	40 - 153	16	30
Vinyl chloride	0.0500	0.0399		mg/Kg		80	70 - 125	6	30
Xylenes, Total	0.100	0.0894		mg/Kg		89	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	75		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	88		70 - 134
Toluene-d8 (Surr)	111		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: MB 500-578747/1-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 578747

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: MB 500-578747/1-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	12/28/20 17:18	12/29/20 11:49	1
2-Fluorophenol	93		31 - 166	12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene-d5	98		37 - 147	12/28/20 17:18	12/29/20 11:49	1
Phenol-d5	93		30 - 153	12/28/20 17:18	12/29/20 11:49	1
Terphenyl-d14	97		42 - 157	12/28/20 17:18	12/29/20 11:49	1
2,4,6-Tribromophenol	97		31 - 143	12/28/20 17:18	12/29/20 11:49	1

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.18		mg/Kg		88	68 - 120
Anthracene	1.33	1.17		mg/Kg		88	70 - 114
Benzo[a]anthracene	1.33	1.11		mg/Kg		83	67 - 122
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.26		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.33		mg/Kg		100	72 - 131
Benzo[k]fluoranthene	1.33	1.24		mg/Kg		93	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		83	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.15		mg/Kg		87	72 - 131
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.13		mg/Kg		85	71 - 129
Carbazole	1.33	1.27		mg/Kg		95	65 - 142
4-Chloroaniline	1.33	1.20		mg/Kg		90	30 - 150
4-Chloro-3-methylphenol	1.33	1.36		mg/Kg		102	65 - 122
2-Chloronaphthalene	1.33	1.22		mg/Kg		92	69 - 114
2-Chlorophenol	1.33	1.19		mg/Kg		89	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: LCS 500-578747/2-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.26		mg/Kg		95	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.32		mg/Kg		99	64 - 131
Dibenzofuran	1.33	1.27		mg/Kg		95	66 - 115
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	62 - 110
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.06		mg/Kg		80	61 - 110
3,3'-Dichlorobenzidine	1.33	0.934		mg/Kg		70	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.31		mg/Kg		98	58 - 120
2,4-Dimethylphenol	1.33	1.32		mg/Kg		99	60 - 110
Dimethyl phthalate	1.33	1.22		mg/Kg		92	69 - 116
Di-n-butyl phthalate	1.33	1.25		mg/Kg		93	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.807		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		19	10 - 100
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	69 - 124
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		89	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.23		mg/Kg		93	62 - 120
Hexachlorobenzene	1.33	1.25		mg/Kg		94	63 - 124
Hexachlorobutadiene	1.33	1.30		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.659	J	mg/Kg		49	10 - 133
Hexachloroethane	1.33	1.19		mg/Kg		89	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.31		mg/Kg		99	68 - 130
Isophorone	1.33	1.22		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.23		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.26		mg/Kg		95	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		94	57 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2-Nitroaniline	1.33	1.45		mg/Kg		109	57 - 124
3-Nitroaniline	1.33	1.03		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.00		mg/Kg		75	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		87	60 - 120
4-Nitrophenol	2.67	3.05		mg/Kg		114	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.40		mg/Kg		105	40 - 124
Pentachlorophenol	2.67	1.81		mg/Kg		68	13 - 112
Phenanthrene	1.33	1.21		mg/Kg		91	62 - 120
Phenol	1.33	1.30		mg/Kg		97	56 - 122
Pyrene	1.33	1.10		mg/Kg		83	61 - 128
1,2,4-Trichlorobenzene	1.33	1.22		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	101		43 - 145
2-Fluorophenol	103		31 - 166
Nitrobenzene-d5	102		37 - 147
Phenol-d5	98		30 - 153
Terphenyl-d14	91		42 - 157
2,4,6-Tribromophenol	105		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578814/1-A
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578814

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Barium	<0.11		1.0	0.11	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Cadmium	0.0463	J	0.20	0.036	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Copper	<0.28		1.0	0.28	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Iron	<10		20	10	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Lead	<0.23		0.50	0.23	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Magnesium	<5.0		10	5.0	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Calcium	4.91	J	20	3.4	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Silver	<0.13		0.50	0.13	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Potassium	<18		50	18	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Sodium	32.1	J	100	15	mg/Kg		12/29/20 07:22	12/30/20 20:24	1

Lab Sample ID: LCS 500-578814/2-A
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578814

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	44.0		mg/Kg		88		80 - 120
Arsenic	10.0	9.57		mg/Kg		96		80 - 120
Barium	200	195		mg/Kg		98		80 - 120
Beryllium	5.00	4.98		mg/Kg		100		80 - 120
Cadmium	5.00	4.61		mg/Kg		92		80 - 120
Chromium	20.0	19.4		mg/Kg		97		80 - 120
Cobalt	50.0	49.5		mg/Kg		99		80 - 120
Copper	25.0	23.9		mg/Kg		96		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: LCS 500-578814/2-A
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	98.8		mg/Kg		99	80 - 120
Lead	10.0	9.55		mg/Kg		95	80 - 120
Magnesium	1000	973		mg/Kg		97	80 - 120
Calcium	1000	1000		mg/Kg		100	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Selenium	10.0	8.87		mg/Kg		89	80 - 120
Silver	5.00	4.62		mg/Kg		92	80 - 120
Thallium	10.0	9.75		mg/Kg		98	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120
Potassium	1000	952		mg/Kg		95	80 - 120
Sodium	1000	974		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-578970/2-A
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	0.500	0.494	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0485		mg/L		97	80 - 120
Cadmium	0.0500	0.0498		mg/L		100	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.525		mg/L		105	80 - 120
Copper	0.250	0.252		mg/L		101	80 - 120
Iron	1.00	0.971		mg/L		97	80 - 120
Lead	0.100	0.0979		mg/L		98	80 - 120
Magnesium	10.0	9.24		mg/L		92	80 - 120
Calcium	10.0	9.78		mg/L		98	80 - 120
Manganese	0.500	0.471		mg/L		94	80 - 120
Nickel	0.500	0.520		mg/L		104	80 - 120
Selenium	0.100	0.0994		mg/L		99	80 - 120
Silver	0.0500	0.0514		mg/L		103	80 - 120
Vanadium	0.500	0.499		mg/L		100	80 - 120
Zinc	0.500	0.573		mg/L		115	80 - 120
Potassium	10.0	11.3		mg/L		113	80 - 120

Lab Sample ID: LCS 500-579186/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.500	0.471		mg/L		94	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: LB 500-578816/1-B
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578970

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Barium	<0.050		0.50	0.050	mg/L		12/29/20 17:29	12/30/20 17:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:29	12/30/20 17:00	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:29	12/30/20 17:00	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:29	12/30/20 17:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:29	12/30/20 17:00	1
Magnesium	<0.50		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:00	1
Calcium	<0.50		5.0	0.50	mg/L		12/29/20 17:29	12/30/20 17:00	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:29	12/30/20 17:00	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:29	12/30/20 17:00	1
Potassium	<0.50		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:00	1

Lab Sample ID: LB 500-579026/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579186

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	0.0145	J	0.025	0.010	mg/L		12/30/20 17:38	01/01/21 01:23	1

Lab Sample ID: 500-192804-4 MS
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: 3972-COV-14-B02 (7-13)
Prep Type: SPLP East
Prep Batch: 579186

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Manganese	2.1	B	0.500	2.45	4	mg/L		70	75 - 125

Lab Sample ID: 500-192804-4 DU
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: 3972-COV-14-B02 (7-13)
Prep Type: SPLP East
Prep Batch: 579186

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Manganese	2.1	B	1.87		mg/L		11	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-578970/2-A
Matrix: Solid
Analysis Batch: 579155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578970

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.468		mg/L		94	80 - 120
Thallium	0.100	0.0921		mg/L		92	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

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

Lab Sample ID: LB 500-578816/1-B
 Matrix: Solid
 Analysis Batch: 579155

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 578970

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:29	12/30/20 12:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:29	12/30/20 12:36	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579085/12-A
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 579085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 09:47	1

Lab Sample ID: LCS 500-579085/14-A
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00195		mg/L		98	80 - 120

Lab Sample ID: LB 500-578816/1-C
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579085

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 09:49	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578420/12-A
 Matrix: Solid
 Analysis Batch: 578666

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/24/20 11:35	12/28/20 08:10	1

Lab Sample ID: LCS 500-578420/13-A
 Matrix: Solid
 Analysis Batch: 578666

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.180		mg/Kg		108	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578662/1-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/28/20 10:55	12/28/20 12:39	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: HLCS 500-578662/2-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	12.3		mg/Kg		102	90 - 110

Lab Sample ID: LCS 500-578662/3-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.65		mg/Kg		110	85 - 115

Lab Sample ID: LLCS 500-578662/4-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.40		mg/Kg		117	75 - 125



QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

GC/MS VOA

Prep Batch: 578399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	5035	
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	5035	
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	5035	
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	5035	

Analysis Batch: 578587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	8260B	578399
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	8260B	578399
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	8260B	578399
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	8260B	578399
MB 500-578587/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578587/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578587/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	3541	
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	3541	
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	3541	
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	3541	
MB 500-578747/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 578863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	8270D	578747
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	8270D	578747
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	8270D	578747
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	8270D	578747
MB 500-578747/1-A	Method Blank	Total/NA	Solid	8270D	578747
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	8270D	578747

Metals

Prep Batch: 578420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	7471B	
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	7471B	
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	7471B	
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	7471B	
MB 500-578420/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578420/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 578666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	7471B	578420
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	7471B	578420
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	7471B	578420
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	7471B	578420

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Metals (Continued)

Analysis Batch: 578666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-578420/12-A	Method Blank	Total/NA	Solid	7471B	578420
LCS 500-578420/13-A	Lab Control Sample	Total/NA	Solid	7471B	578420

Prep Batch: 578814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	3050B	
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	3050B	
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	3050B	
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	3050B	
MB 500-578814/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578814/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 578816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	TCLP	Solid	1311	
500-192804-2	3972-COV-14-B01 (0-3) Dup	TCLP	Solid	1311	
500-192804-3	3972-COV-14-B02 (0-7)	TCLP	Solid	1311	
500-192804-4	3972-COV-14-B02 (7-13)	TCLP	Solid	1311	
LB 500-578816/1-B	Method Blank	TCLP	Solid	1311	
LB 500-578816/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 578970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	TCLP	Solid	3010A	578816
500-192804-2	3972-COV-14-B01 (0-3) Dup	TCLP	Solid	3010A	578816
500-192804-3	3972-COV-14-B02 (0-7)	TCLP	Solid	3010A	578816
500-192804-4	3972-COV-14-B02 (7-13)	TCLP	Solid	3010A	578816
LB 500-578816/1-B	Method Blank	TCLP	Solid	3010A	578816
LCS 500-578970/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Leach Batch: 579026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-3	3972-COV-14-B02 (0-7)	SPLP East	Solid	1312	
500-192804-4	3972-COV-14-B02 (7-13)	SPLP East	Solid	1312	
LB 500-579026/1-B	Method Blank	SPLP East	Solid	1312	
500-192804-4 MS	3972-COV-14-B02 (7-13)	SPLP East	Solid	1312	
500-192804-4 DU	3972-COV-14-B02 (7-13)	SPLP East	Solid	1312	

Prep Batch: 579085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	TCLP	Solid	7470A	578816
500-192804-2	3972-COV-14-B01 (0-3) Dup	TCLP	Solid	7470A	578816
500-192804-3	3972-COV-14-B02 (0-7)	TCLP	Solid	7470A	578816
500-192804-4	3972-COV-14-B02 (7-13)	TCLP	Solid	7470A	578816
LB 500-578816/1-C	Method Blank	TCLP	Solid	7470A	578816
MB 500-579085/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579085/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 579155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	TCLP	Solid	6020A	578970

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Metals (Continued)

Analysis Batch: 579155 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-2	3972-COV-14-B01 (0-3) Dup	TCLP	Solid	6020A	578970
500-192804-3	3972-COV-14-B02 (0-7)	TCLP	Solid	6020A	578970
500-192804-4	3972-COV-14-B02 (7-13)	TCLP	Solid	6020A	578970
LB 500-578816/1-B	Method Blank	TCLP	Solid	6020A	578970
LCS 500-578970/2-A	Lab Control Sample	Total/NA	Solid	6020A	578970

Prep Batch: 579186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-3	3972-COV-14-B02 (0-7)	SPLP East	Solid	3010A	579026
500-192804-4	3972-COV-14-B02 (7-13)	SPLP East	Solid	3010A	579026
LB 500-579026/1-B	Method Blank	SPLP East	Solid	3010A	579026
LCS 500-579186/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-192804-4 MS	3972-COV-14-B02 (7-13)	SPLP East	Solid	3010A	579026
500-192804-4 DU	3972-COV-14-B02 (7-13)	SPLP East	Solid	3010A	579026

Analysis Batch: 579229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	TCLP	Solid	6010B	578970
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	6010B	578814
500-192804-2	3972-COV-14-B01 (0-3) Dup	TCLP	Solid	6010B	578970
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	6010B	578814
500-192804-3	3972-COV-14-B02 (0-7)	TCLP	Solid	6010B	578970
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	6010B	578814
500-192804-4	3972-COV-14-B02 (7-13)	TCLP	Solid	6010B	578970
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	6010B	578814
LB 500-578816/1-B	Method Blank	TCLP	Solid	6010B	578970
MB 500-578814/1-A	Method Blank	Total/NA	Solid	6010B	578814
LCS 500-578814/2-A	Lab Control Sample	Total/NA	Solid	6010B	578814
LCS 500-578970/2-A	Lab Control Sample	Total/NA	Solid	6010B	578970

Analysis Batch: 579317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	TCLP	Solid	7470A	579085
500-192804-2	3972-COV-14-B01 (0-3) Dup	TCLP	Solid	7470A	579085
500-192804-3	3972-COV-14-B02 (0-7)	TCLP	Solid	7470A	579085
500-192804-4	3972-COV-14-B02 (7-13)	TCLP	Solid	7470A	579085
LB 500-578816/1-C	Method Blank	TCLP	Solid	7470A	579085
MB 500-579085/12-A	Method Blank	Total/NA	Solid	7470A	579085
LCS 500-579085/14-A	Lab Control Sample	Total/NA	Solid	7470A	579085

Analysis Batch: 579327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	6010B	578814
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	6010B	578814
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	6010B	578814

Analysis Batch: 579387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-3	3972-COV-14-B02 (0-7)	SPLP East	Solid	6010B	579186
500-192804-4	3972-COV-14-B02 (7-13)	SPLP East	Solid	6010B	579186
LB 500-579026/1-B	Method Blank	SPLP East	Solid	6010B	579186

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Metals (Continued)

Analysis Batch: 579387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-579186/2-A	Lab Control Sample	Total/NA	Solid	6010B	579186
500-192804-4 MS	3972-COV-14-B02 (7-13)	SPLP East	Solid	6010B	579186
500-192804-4 DU	3972-COV-14-B02 (7-13)	SPLP East	Solid	6010B	579186

General Chemistry

Analysis Batch: 578034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	Moisture	
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	Moisture	
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	Moisture	
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	9045D	
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	9045D	
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	9045D	
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	9010C	
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	9010C	
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	9010C	
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	9010C	
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192804-1	3972-COV-14-B01 (0-3)	Total/NA	Solid	9012B	578662
500-192804-2	3972-COV-14-B01 (0-3) Dup	Total/NA	Solid	9012B	578662
500-192804-3	3972-COV-14-B02 (0-7)	Total/NA	Solid	9012B	578662
500-192804-4	3972-COV-14-B02 (7-13)	Total/NA	Solid	9012B	578662
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9012B	578662
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9012B	578662

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3)

Lab Sample ID: 500-192804-1

Date Collected: 12/18/20 12:45

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6010B		1	579229	12/30/20 17:51	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 12:40	FXG	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579085	12/30/20 09:45	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 09:57	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 15:47	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578034	12/22/20 12:19	LWN	TAL CHI

Client Sample ID: 3972-COV-14-B01 (0-3)

Lab Sample ID: 500-192804-1

Date Collected: 12/18/20 12:45

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 12:05	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578863	12/29/20 15:54	AJD	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579229	12/30/20 20:47	EEN	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		2	579327	12/31/20 11:36	EEN	TAL CHI
Total/NA	Prep	7471B			578420	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:09	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:04	PSP	TAL CHI

Client Sample ID: 3972-COV-14-B01 (0-3) Dup

Lab Sample ID: 500-192804-2

Date Collected: 12/18/20 12:50

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6010B		1	579229	12/30/20 17:54	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 12:42	FXG	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579085	12/30/20 09:45	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 09:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 15:52	LWN	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B01 (0-3) Dup

Lab Sample ID: 500-192804-2

Date Collected: 12/18/20 12:50

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	578034	12/22/20 12:19	LWN	TAL CHI

Client Sample ID: 3972-COV-14-B01 (0-3) Dup

Lab Sample ID: 500-192804-2

Date Collected: 12/18/20 12:50

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 12:30	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578863	12/29/20 16:19	AJD	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579229	12/30/20 20:50	EEN	TAL CHI
Total/NA	Prep	7471B			578420	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:11	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:06	PSP	TAL CHI

Client Sample ID: 3972-COV-14-B02 (0-7)

Lab Sample ID: 500-192804-3

Date Collected: 12/18/20 12:10

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 02:31	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6010B		1	579229	12/30/20 17:58	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 12:44	FXG	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579085	12/30/20 09:45	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 15:55	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578034	12/22/20 12:19	LWN	TAL CHI

Client Sample ID: 3972-COV-14-B02 (0-7)

Lab Sample ID: 500-192804-3

Date Collected: 12/18/20 12:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 12:55	EMA	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (0-7)

Lab Sample ID: 500-192804-3

Date Collected: 12/18/20 12:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578863	12/29/20 14:16	AJD	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579229	12/30/20 20:53	EEN	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579327	12/31/20 11:39	EEN	TAL CHI
Total/NA	Prep	7471B			578420	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:13	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:08	PSP	TAL CHI

Client Sample ID: 3972-COV-14-B02 (7-13)

Lab Sample ID: 500-192804-4

Date Collected: 12/18/20 12:15

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579026	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579186	12/30/20 17:38	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 02:41	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6010B		1	579229	12/30/20 18:01	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 12:46	FXG	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579085	12/30/20 09:45	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:04	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 15:57	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578034	12/22/20 12:19	LWN	TAL CHI

Client Sample ID: 3972-COV-14-B02 (7-13)

Lab Sample ID: 500-192804-4

Date Collected: 12/18/20 12:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 13:20	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578863	12/29/20 13:52	AJD	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579229	12/30/20 21:06	EEN	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		2	579327	12/31/20 11:42	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Client Sample ID: 3972-COV-14-B02 (7-13)

Lab Sample ID: 500-192804-4

Date Collected: 12/18/20 12:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 81.7

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	7471B			578420	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:14	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:09	PSP	TAL CHI

Laboratory References:

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



Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192804-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192804-1	3972-COV-14-B01 (0-3)	Solid	12/18/20 12:45	12/18/20 17:50	
500-192804-2	3972-COV-14-B01 (0-3) Dup	Solid	12/18/20 12:50	12/18/20 17:50	
500-192804-3	3972-COV-14-B02 (0-7)	Solid	12/18/20 12:10	12/18/20 17:50	
500-192804-4	3972-COV-14-B02 (7-13)	Solid	12/18/20 12:15	12/18/20 17:50	

1

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12

13


14

15

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>TC/14607</u> Address: <u>1927 Exchange Blvd</u> City/State/Zip: <u>Glendale Heights, IL</u> Phone: <u>630-445-6166</u> Fax: _____ Project Name: <u>11707011W</u> Site: <u>11707011W</u> P O #: _____		Project Manager: <u>Rich O'Brien</u> Tel/Email: <u>matt.wasser@ferro.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>12/18/2020</u> Carrier: _____		COC No: _____ of _____ COCs Sampler: <u>P. G. A.</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-192804</u>	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" 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) _____ <u>DOC'S</u> <u>SUOC'S</u> <u>To be 23 Inorganics / pH</u> <u>TCU 23 Inorganics</u> <u>SPL 23 Inorganics</u>				500-192804 COC		Sample Specific Notes: _____	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)		
1 3972-COV-14-B01 (0-3)	12/18/20	1245	G	Soil	6	MM	X	X	X
2 3972-COV-14-B01 (Dup 0-3)	12/18/20	1250	G	Soil	6	MM	X	X	X
3 3972-COV-14-B02 (0-7)	12/18/20	1210	G	Soil	6	MM	X	X	X
4 3972-COV-14-B02 (7-13)	12/18/20	1215	G	Soil	6	MM	X	X	X
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____						Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			
Special Instructions/QC Requirements & Comments: * NO Aluminum * Hold SPL 23 Inorganics per Traceon Instructions						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____			
Relinquished by: <u>[Signature]</u>		Company: <u>Ferrocon</u>		Date/Time: <u>12/18/20 1600</u>		Received by: <u>[Signature]</u>		Company: <u>ETA</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>ETA</u>		Date/Time: <u>12/18/20 1750</u>		Received by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>Stephanie Hemminger</u>		Company: <u>ETA-CH1</u>	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192804-1

Login Number: 192804

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6,0.9,0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Irving Park Road (Eastbound) IDOT STA 95+04 to 96+50, (ISGS Sites 3972-COV-15 and 16)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Hanover

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

Latitude: 42.00586 Longitude: -88.14615

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 39

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring 3972-COV-16-B01 was sampled adjacent to ISGS Site Nos 3972-COV-15 and 3972-COV-16. See Exhibit 2 and Table 23 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192806-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-16)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-16-B01 (0-7)
		Chicago	MSAs		Sample Depth (feet)	(0-7)
					Date Collected	12/18/2020
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		8.3
Barium	mg/kg	---	110	1500		73
Cadmium	mg/kg	---	0.6	5.2		<0.020
Chromium, total	mg/kg	---	16.2	21		18
Lead	mg/kg	---	36	107		16
Mercury	mg/kg	---	0.06	0.89		0.031
Selenium	mg/kg	---	0.48	1.3		<0.33
Silver	mg/kg	---	0.55	4.4		<0.073
Antimony	mg/kg	---	4.0	5		<0.22
Beryllium	mg/kg	---	0.59	22		0.72
Calcium	mg/kg	---	9,300	---		28000
Cobalt	mg/kg	---	8.9	20		14
Copper	mg/kg	---	19.6	2900		24
Cyanide	mg/kg	---	0.51	---		<0.14
Iron	mg/kg	---	15,900	15000		20000
Magnesium	mg/kg	---	4,820	325000		17000
Manganese	mg/kg	---	636	630		400
Nickel	mg/kg	---	18	100		41
Potassium	mg/kg	---	1,268	---		2400
Sodium	mg/kg	---	130	---		370
Thallium	mg/kg	---	0.32	2.6		<0.28
Vanadium	mg/kg	---	25.2	550		22
Zinc	mg/kg	---	95	5100		69
pH			6.25	9		8.3

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-16)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-16-B01 (0-7)
		Chicago	MSAs		Sample Depth (feet)	(0-7)
					Date Collected	12/18/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		1.1
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.82
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		400
Cobalt,TCLP	mg/L	---	---	---		0.011
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		62
Manganese,TCLP	mg/L	---	---	---		7.4
Nickel,TCLP	mg/L	---	---	---		0.011
Potassium,TCLP	mg/L	---	---	---		1.2
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192806-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
1/6/2021 10:53:51 AM

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

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Job ID: 500-192806-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

**Job Narrative
500-192806-1**

Receipt

The sample was received on 12/18/2020 5:50 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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



Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Client Sample ID: 3972-COV-16-B01 (0-7)

Lab Sample ID: 500-192806-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.3		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	73		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.72		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	17000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	28000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	400		0.56	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	41		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	69		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		28	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	370	B	56	8.3	mg/Kg	1	✳	6010B	Total/NA
Barium	0.82		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	62		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Client Sample ID: 3972-COV-16-B01 (0-7)

Lab Sample ID: 500-192806-1

Date Collected: 12/18/20 13:25

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0068		0.016	0.0068	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Carbon disulfide	<0.00082		0.0039	0.00082	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☆	12/19/20 16:35	12/28/20 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	12/19/20 16:35	12/28/20 15:00	1
Dibromofluoromethane	108		75 - 126	12/19/20 16:35	12/28/20 15:00	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	12/19/20 16:35	12/28/20 15:00	1
Toluene-d8 (Surr)	97		75 - 124	12/19/20 16:35	12/28/20 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	☆	12/28/20 17:18	12/29/20 12:14	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☆	12/28/20 17:18	12/29/20 12:14	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☆	12/28/20 17:18	12/29/20 12:14	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☆	12/28/20 17:18	12/29/20 12:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Client Sample ID: 3972-COV-16-B01 (0-7)

Lab Sample ID: 500-192806-1

Date Collected: 12/18/20 13:25

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0076		0.039	0.0076	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2,4-Dinitrophenol	<0.69		0.80	0.69	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Hexachlorobenzene	<0.0091		0.080	0.0091	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	12/28/20 17:18	12/29/20 12:14	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Client Sample ID: 3972-COV-16-B01 (0-7)

Lab Sample ID: 500-192806-1

Date Collected: 12/18/20 13:25

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
Pentachlorophenol	<0.63		0.80	0.63	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
Phenol	<0.088		0.20	0.088	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
Pyrene	<0.0078		0.039	0.0078	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	✧	12/28/20 17:18	12/29/20 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	12/28/20 17:18	12/29/20 12:14	1
2-Fluorophenol	91		31 - 166	12/28/20 17:18	12/29/20 12:14	1
Nitrobenzene-d5	96		37 - 147	12/28/20 17:18	12/29/20 12:14	1
Phenol-d5	93		30 - 153	12/28/20 17:18	12/29/20 12:14	1
Terphenyl-d14	95		42 - 157	12/28/20 17:18	12/29/20 12:14	1
2,4,6-Tribromophenol	110		31 - 143	12/28/20 17:18	12/29/20 12:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Arsenic	8.3		0.56	0.19	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Barium	73		0.56	0.064	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Beryllium	0.72		0.23	0.053	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Cadmium	<0.020		0.11	0.020	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Chromium	18		0.56	0.28	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Cobalt	14		0.28	0.074	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Copper	24		0.56	0.16	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Iron	20000		11	5.9	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Lead	16		0.28	0.13	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Magnesium	17000		5.6	2.8	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Calcium	28000	B	11	1.9	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Manganese	400		0.56	0.082	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Nickel	41		0.56	0.16	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Selenium	<0.33		0.56	0.33	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Silver	<0.073		0.28	0.073	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Thallium	<0.28		0.56	0.28	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Vanadium	22		0.28	0.066	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Zinc	69		1.1	0.49	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Potassium	2400		28	10	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1
Sodium	370	B	56	8.3	mg/Kg	✧	12/29/20 07:55	12/30/20 03:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 22:51	1
Barium	0.82		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 22:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 22:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 22:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Client Sample ID: 3972-COV-16-B01 (0-7)

Lab Sample ID: 500-192806-1

Date Collected: 12/18/20 13:25

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 22:51	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:51	1
Cobalt	0.011	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:51	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:51	1
Iron	<0.20		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 22:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 22:51	1
Magnesium	62		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:51	1
Manganese	7.4		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:51	1
Nickel	0.011	J	0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:51	1
Potassium	1.2	J	2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:51	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 22:51	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:51	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:51	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:33	12/31/20 22:51	1

Method: 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		12/30/20 17:37	12/31/20 23:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0064	mg/Kg	✱	12/24/20 11:35	12/28/20 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.27	0.14	mg/Kg	✱	12/28/20 10:55	12/28/20 12:50	1
pH	8.3		0.2	0.2	SU			12/23/20 16:00	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192806-1	3972-COV-16-B01 (0-7)	99	108	99	97
LCS 500-578587/4	Lab Control Sample	83	93	86	96
LCSD 500-578587/5	Lab Control Sample Dup	75	93	88	111
MB 500-578587/7	Method Blank	87	96	89	94

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192806-1	3972-COV-16-B01 (0-7)	96	91	96	93	95	110
LCS 500-578747/2-A	Lab Control Sample	101	103	102	98	91	105
MB 500-578747/1-A	Method Blank	96	93	98	93	97	97

Surrogate Legend

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Lab Sample ID: MB 500-578587/7
Matrix: Solid
Analysis Batch: 578587

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/28/20 11:15	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/28/20 11:15	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/28/20 11:15	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/28/20 11:15	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/28/20 11:15	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/28/20 11:15	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/28/20 11:15	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/28/20 11:15	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/28/20 11:15	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/28/20 11:15	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/28/20 11:15	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/28/20 11:15	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/28/20 11:15	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/28/20 11:15	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/28/20 11:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	87		75 - 131		12/28/20 11:15	1
Dibromofluoromethane	96		75 - 126		12/28/20 11:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		12/28/20 11:15	1
Toluene-d8 (Surr)	94		75 - 124		12/28/20 11:15	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Lab Sample ID: LCS 500-578587/4

Matrix: Solid

Analysis Batch: 578587

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	0.0432		mg/Kg		86	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0444		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0508		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0469		mg/Kg		94	70 - 130
2-Butanone (MEK)	0.0500	0.0383		mg/Kg		77	47 - 138
Carbon disulfide	0.0500	0.0425		mg/Kg		85	70 - 129
Carbon tetrachloride	0.0500	0.0436		mg/Kg		87	75 - 125
Chlorobenzene	0.0500	0.0464		mg/Kg		93	50 - 150
Chloroethane	0.0500	0.0472		mg/Kg		94	75 - 125
Chloroform	0.0500	0.0439		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0389		mg/Kg		78	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0427		mg/Kg		85	70 - 125
1,2-Dichloroethane	0.0500	0.0419		mg/Kg		84	70 - 130
1,1-Dichloroethene	0.0500	0.0432		mg/Kg		86	70 - 120
1,2-Dichloropropane	0.0500	0.0444		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0477		mg/Kg		95	61 - 136
2-Hexanone	0.0500	0.0441		mg/Kg		88	48 - 146
Methylene Chloride	0.0500	0.0438		mg/Kg		88	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0435		mg/Kg		87	50 - 148
Methyl tert-butyl ether	0.0500	0.0402		mg/Kg		80	50 - 140
Styrene	0.0500	0.0456		mg/Kg		91	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0417		mg/Kg		83	70 - 122
Tetrachloroethene	0.0500	0.0507		mg/Kg		101	70 - 124
Toluene	0.0500	0.0443		mg/Kg		89	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0437		mg/Kg		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,1-Trichloroethane	0.0500	0.0428		mg/Kg		86	70 - 128
1,1,2-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 125
Trichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0416		mg/Kg		83	40 - 153
Vinyl chloride	0.0500	0.0375		mg/Kg		75	70 - 125
Xylenes, Total	0.100	0.0858		mg/Kg		86	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	83		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Lab Sample ID: LCSD 500-578587/5
Matrix: Solid
Analysis Batch: 578587

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	0.0412		mg/Kg		82	40 - 150	5	30
Benzene	0.0500	0.0451		mg/Kg		90	70 - 125	4	30
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	67 - 129	2	30
Bromoform	0.0500	0.0544		mg/Kg		109	68 - 136	7	30
Bromomethane	0.0500	0.0440		mg/Kg		88	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0406		mg/Kg		81	47 - 138	6	30
Carbon disulfide	0.0500	0.0446		mg/Kg		89	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0453		mg/Kg		91	75 - 125	4	30
Chlorobenzene	0.0500	0.0472		mg/Kg		94	50 - 150	2	30
Chloroethane	0.0500	0.0469		mg/Kg		94	75 - 125	1	30
Chloroform	0.0500	0.0458		mg/Kg		92	57 - 135	4	30
Chloromethane	0.0500	0.0408		mg/Kg		82	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 125	5	30
cis-1,3-Dichloropropene	0.0500	0.0538		mg/Kg		108	70 - 125	16	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0421		mg/Kg		84	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0466		mg/Kg		93	70 - 125	5	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136	4	30
2-Hexanone	0.0500	0.0486		mg/Kg		97	48 - 146	10	30
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	12	30
Methyl tert-butyl ether	0.0500	0.0421		mg/Kg		84	50 - 140	5	30
Styrene	0.0500	0.0470		mg/Kg		94	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0366		mg/Kg		73	70 - 122	13	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	16	30
Toluene	0.0500	0.0526		mg/Kg		105	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0468		mg/Kg		94	70 - 125	7	30
trans-1,3-Dichloropropene	0.0500	0.0525		mg/Kg		105	70 - 125	19	30
1,1,1-Trichloroethane	0.0500	0.0448		mg/Kg		90	70 - 128	5	30
1,1,2-Trichloroethane	0.0500	0.0570		mg/Kg		114	70 - 125	16	30
Trichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125	0	30
Vinyl acetate	0.0500	0.0355		mg/Kg		71	40 - 153	16	30
Vinyl chloride	0.0500	0.0399		mg/Kg		80	70 - 125	6	30
Xylenes, Total	0.100	0.0894		mg/Kg		89	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	75		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	88		70 - 134
Toluene-d8 (Surr)	111		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Lab Sample ID: MB 500-578747/1-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 578747

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Lab Sample ID: MB 500-578747/1-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	12/28/20 17:18	12/29/20 11:49	1
2-Fluorophenol	93		31 - 166	12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene-d5	98		37 - 147	12/28/20 17:18	12/29/20 11:49	1
Phenol-d5	93		30 - 153	12/28/20 17:18	12/29/20 11:49	1
Terphenyl-d14	97		42 - 157	12/28/20 17:18	12/29/20 11:49	1
2,4,6-Tribromophenol	97		31 - 143	12/28/20 17:18	12/29/20 11:49	1

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.18		mg/Kg		88	68 - 120
Anthracene	1.33	1.17		mg/Kg		88	70 - 114
Benzo[a]anthracene	1.33	1.11		mg/Kg		83	67 - 122
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.26		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.33		mg/Kg		100	72 - 131
Benzo[k]fluoranthene	1.33	1.24		mg/Kg		93	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		83	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.15		mg/Kg		87	72 - 131
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.13		mg/Kg		85	71 - 129
Carbazole	1.33	1.27		mg/Kg		95	65 - 142
4-Chloroaniline	1.33	1.20		mg/Kg		90	30 - 150
4-Chloro-3-methylphenol	1.33	1.36		mg/Kg		102	65 - 122
2-Chloronaphthalene	1.33	1.22		mg/Kg		92	69 - 114
2-Chlorophenol	1.33	1.19		mg/Kg		89	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Lab Sample ID: LCS 500-578747/2-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.26		mg/Kg		95	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.32		mg/Kg		99	64 - 131
Dibenzofuran	1.33	1.27		mg/Kg		95	66 - 115
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	62 - 110
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.06		mg/Kg		80	61 - 110
3,3'-Dichlorobenzidine	1.33	0.934		mg/Kg		70	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.31		mg/Kg		98	58 - 120
2,4-Dimethylphenol	1.33	1.32		mg/Kg		99	60 - 110
Dimethyl phthalate	1.33	1.22		mg/Kg		92	69 - 116
Di-n-butyl phthalate	1.33	1.25		mg/Kg		93	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.807		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		19	10 - 100
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	69 - 124
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		89	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.23		mg/Kg		93	62 - 120
Hexachlorobenzene	1.33	1.25		mg/Kg		94	63 - 124
Hexachlorobutadiene	1.33	1.30		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.659	J	mg/Kg		49	10 - 133
Hexachloroethane	1.33	1.19		mg/Kg		89	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.31		mg/Kg		99	68 - 130
Isophorone	1.33	1.22		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.23		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.26		mg/Kg		95	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		94	57 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2-Nitroaniline	1.33	1.45		mg/Kg		109	57 - 124
3-Nitroaniline	1.33	1.03		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.00		mg/Kg		75	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		87	60 - 120
4-Nitrophenol	2.67	3.05		mg/Kg		114	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.40		mg/Kg		105	40 - 124
Pentachlorophenol	2.67	1.81		mg/Kg		68	13 - 112
Phenanthrene	1.33	1.21		mg/Kg		91	62 - 120
Phenol	1.33	1.30		mg/Kg		97	56 - 122
Pyrene	1.33	1.10		mg/Kg		83	61 - 128
1,2,4-Trichlorobenzene	1.33	1.22		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	101		43 - 145
2-Fluorophenol	103		31 - 166
Nitrobenzene-d5	102		37 - 147
Phenol-d5	98		30 - 153
Terphenyl-d14	91		42 - 157
2,4,6-Tribromophenol	105		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578838/1-A
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578838

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Barium	<0.11		1.0	0.11	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Cadmium	0.0413	J	0.20	0.036	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Copper	<0.28		1.0	0.28	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Iron	<10		20	10	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Lead	<0.23		0.50	0.23	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Magnesium	<5.0		10	5.0	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Calcium	13.0	J	20	3.4	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Selenium	0.685	J	1.0	0.59	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Silver	<0.13		0.50	0.13	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Potassium	<18		50	18	mg/Kg		12/29/20 07:55	12/30/20 02:39	1
Sodium	46.1	J	100	15	mg/Kg		12/29/20 07:55	12/30/20 02:39	1

Lab Sample ID: LCS 500-578838/2-A
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578838

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	43.4		mg/Kg		87		80 - 120
Arsenic	10.0	9.85		mg/Kg		99		80 - 120
Barium	200	198		mg/Kg		99		80 - 120
Beryllium	5.00	4.88		mg/Kg		98		80 - 120
Cadmium	5.00	4.73		mg/Kg		95		80 - 120
Chromium	20.0	19.2		mg/Kg		96		80 - 120
Cobalt	50.0	48.9		mg/Kg		98		80 - 120
Copper	25.0	23.7		mg/Kg		95		80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Lab Sample ID: LCS 500-578838/2-A
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	103		mg/Kg		103	80 - 120
Lead	10.0	9.82		mg/Kg		98	80 - 120
Magnesium	1000	955		mg/Kg		96	80 - 120
Calcium	1000	993		mg/Kg		99	80 - 120
Manganese	50.0	48.4		mg/Kg		97	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	10.0	8.95		mg/Kg		89	80 - 120
Silver	5.00	4.61		mg/Kg		92	80 - 120
Thallium	10.0	9.65		mg/Kg		97	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	48.5		mg/Kg		97	80 - 120
Potassium	1000	975		mg/Kg		98	80 - 120
Sodium	1000	1010		mg/Kg		101	80 - 120

Lab Sample ID: LCS 500-579183/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.489	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0470		mg/L		94	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.209		mg/L		104	80 - 120
Cobalt	0.500	0.525		mg/L		105	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	8.94		mg/L		89	80 - 120
Calcium	10.0	9.53		mg/L		95	80 - 120
Manganese	0.500	0.457		mg/L		91	80 - 120
Nickel	0.500	0.521		mg/L		104	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Silver	0.0500	0.0548		mg/L		110	80 - 120
Vanadium	0.500	0.530		mg/L		106	80 - 120
Zinc	0.500	0.574		mg/L		115	80 - 120
Potassium	10.0	10.9		mg/L		109	80 - 120

Lab Sample ID: LCS 500-579185/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579185

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

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

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Barium	<0.050		0.50	0.050	mg/L		12/30/20 17:33	12/31/20 22:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/20 17:33	12/31/20 22:03	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Chromium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Cobalt	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Copper	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Iron	<0.20		0.40	0.20	mg/L		12/30/20 17:33	12/31/20 22:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/20 17:33	12/31/20 22:03	1
Magnesium	<0.50		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1
Calcium	<0.50		5.0	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Selenium	<0.020		0.050	0.020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Silver	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Vanadium	<0.010		0.025	0.010	mg/L		12/30/20 17:33	12/31/20 22:03	1
Zinc	<0.020		0.50	0.020	mg/L		12/30/20 17:33	12/31/20 22:03	1
Potassium	<0.50		2.5	0.50	mg/L		12/30/20 17:33	12/31/20 22:03	1

Lab Sample ID: LB 500-579025/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579185

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:37	12/31/20 23:42	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579183/2-A
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LB 500-579022/1-B
Matrix: Solid
Analysis Batch: 579325

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579183

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/30/20 17:33	12/31/20 12:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/30/20 17:33	12/31/20 12:03	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579156/12-A
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 579156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:40	1

Lab Sample ID: LCS 500-579156/14-A
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00203		mg/L		101	80 - 120

Lab Sample ID: LB 500-579022/2-B
 Matrix: Solid
 Analysis Batch: 579317

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 14:35	12/31/20 10:42	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578500/12-A
 Matrix: Solid
 Analysis Batch: 578666

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/24/20 11:35	12/28/20 09:21	1

Lab Sample ID: LCS 500-578500/13-A
 Matrix: Solid
 Analysis Batch: 578666

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.184		mg/Kg		110	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578662/1-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/28/20 10:55	12/28/20 12:39	1

Lab Sample ID: HLCS 500-578662/2-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.3		mg/Kg		102	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 500-578662/3-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.65		mg/Kg		110	85 - 115

Lab Sample ID: LLCS 500-578662/4-A
Matrix: Solid
Analysis Batch: 578717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578662
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.40		mg/Kg		117	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

GC/MS VOA

Prep Batch: 578399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	5035	

Analysis Batch: 578587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	8260B	578399
MB 500-578587/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578587/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578587/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	3541	
MB 500-578747/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 578863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	8270D	578747
MB 500-578747/1-A	Method Blank	Total/NA	Solid	8270D	578747
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	8270D	578747

Metals

Prep Batch: 578500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	7471B	
MB 500-578500/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578500/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 578666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	7471B	578500
MB 500-578500/12-A	Method Blank	Total/NA	Solid	7471B	578500
LCS 500-578500/13-A	Lab Control Sample	Total/NA	Solid	7471B	578500

Prep Batch: 578838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	3050B	
MB 500-578838/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578838/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 579010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	6010B	578838
MB 500-578838/1-A	Method Blank	Total/NA	Solid	6010B	578838
LCS 500-578838/2-A	Lab Control Sample	Total/NA	Solid	6010B	578838

Leach Batch: 579022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	TCLP	Solid	1311	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Metals (Continued)

Leach Batch: 579022 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-579022/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579022/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 579025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	SPLP East	Solid	1312	
LB 500-579025/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 579156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	TCLP	Solid	7470A	579022
LB 500-579022/2-B	Method Blank	TCLP	Solid	7470A	579022
MB 500-579156/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579156/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	TCLP	Solid	3010A	579022
LB 500-579022/1-B	Method Blank	TCLP	Solid	3010A	579022
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 579185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	SPLP East	Solid	3010A	579025
LB 500-579025/1-B	Method Blank	SPLP East	Solid	3010A	579025
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	TCLP	Solid	7470A	579156
LB 500-579022/2-B	Method Blank	TCLP	Solid	7470A	579156
MB 500-579156/12-A	Method Blank	Total/NA	Solid	7470A	579156
LCS 500-579156/14-A	Lab Control Sample	Total/NA	Solid	7470A	579156

Analysis Batch: 579325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	TCLP	Solid	6020A	579183
LB 500-579022/1-B	Method Blank	TCLP	Solid	6020A	579183
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	6020A	579183

Analysis Batch: 579387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	SPLP East	Solid	6010B	579185
500-192806-1	3972-COV-16-B01 (0-7)	TCLP	Solid	6010B	579183
LB 500-579022/1-B	Method Blank	TCLP	Solid	6010B	579183
LB 500-579025/1-B	Method Blank	SPLP East	Solid	6010B	579185
LCS 500-579183/2-A	Lab Control Sample	Total/NA	Solid	6010B	579183
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	6010B	579185

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

General Chemistry

Analysis Batch: 578034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	9010C	
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192806-1	3972-COV-16-B01 (0-7)	Total/NA	Solid	9012B	578662
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9012B	578662
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9012B	578662

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Client Sample ID: 3972-COV-16-B01 (0-7)

Lab Sample ID: 500-192806-1

Date Collected: 12/18/20 13:25

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579025	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579185	12/30/20 17:37	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	12/31/20 23:49	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6010B		1	579387	12/31/20 22:51	EEN	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	3010A			579183	12/30/20 17:33	BDE	TAL CHI
TCLP	Analysis	6020A		1	579325	12/31/20 12:07	FXG	TAL CHI
TCLP	Leach	1311			579022	12/29/20 15:27	CMS	TAL CHI
TCLP	Prep	7470A			579156	12/30/20 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:51	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:00	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578034	12/22/20 12:19	LWN	TAL CHI

Client Sample ID: 3972-COV-16-B01 (0-7)

Lab Sample ID: 500-192806-1

Date Collected: 12/18/20 13:25

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 15:00	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578863	12/29/20 12:14	AJD	TAL CHI
Total/NA	Prep	3050B			578838	12/29/20 07:55	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579010	12/30/20 03:35	EEN	TAL CHI
Total/NA	Prep	7471B			578500	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:34	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 12:50	PSP	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
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- 9
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- 11
- 12
- 13
- 14
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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192806-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192806-1	3972-COV-16-B01 (0-7)	Solid	12/18/20 13:25	12/18/20 17:50	

1

2

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: <u>Nick O'Brien</u>		Site Contact:		Date: <u>12/18/2020</u>		COC No: _____	
Company Name: <u>Terracon</u>		Tel/Email: <u>mtt.w@terracon.com</u>		Lab Contact:		Carrier:		1 of 1 COCs	
Address: <u>1925 Kennebec Blvd</u>		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>606's</u> <u>SUOC's</u> <u>To test 23 Inorganics / PH</u> <u>TCU 23 Inorganics</u> <u>SPUP 23 Inorganics</u>		 500-192806 COC		Sampler: <u>D. G. AT</u>	
City/State/Zip: <u>Glendale Heights, IL</u>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS						For Lab Use Only:	
Phone: <u>630-445-0160</u>		TAT if different from Below _____						Walk-in Client: _____	
Fax: _____		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling: _____	
Project Name: <u>11207011W</u>						Job / SDG No.:		_____	
Site: <u>11207011W</u>								500-192806	
P O # _____								Sample Specific Notes:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	
3972-COV-16-Bo1 (0-7)		12/18/20	1325	G	S-1	6	N	N	X X X X X
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" 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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <u>* NO Aluminum</u> <u>* Hold SPUP 23 Inorganics per Terracon's instructions 0.9 to 0.7</u>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: <u>6.9</u> Corr'd: <u>0.7</u>		Therm ID No.:			
Relinquished by: <u>[Signature]</u>		Company: <u>Terracon</u>		Date/Time: <u>12/18/2020 1600</u>		Received by: <u>[Signature]</u>		Company: <u>ETA</u> Date/Time: <u>12/18/20 1600</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>ETA</u>		Date/Time: <u>12/18/20 1738</u>		Received by:		Company: _____ Date/Time: _____	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <u>Stephanie Hernandez</u>		Company: <u>ETA-GH</u> Date/Time: <u>12/18/20 1750</u>	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192806-1

Login Number: 192806

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

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

Irving Park Road (Eastbound) IDOT STA 96+50 to 97+50 (ISGS Sites 3972-COV-17)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Hanover

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

Latitude: 42.00563 Longitude: - 88.14568
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 81

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 3972-COV-17. See Exhibit 2 and Table 25 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago Report No. J192805-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/18/21
Date:



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

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-17)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-17-B01 (0-7)	3972-COV-17-B01 (0-7) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(0-7)
					Date Collected	12/18/2020	12/18/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		<0.0069	<0.0065
Semivolatile Organic Analytical Parameters							
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0050	<0.0052
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0051	<0.0053
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0074	0.0091
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0082	0.011
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.012	0.030
Chrysene	mg/kg	1.2	2.7	88		<0.010	0.011
Fluoranthene	mg/kg	2.7	4.1	3100		0.0094	0.010
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0059	<0.0060
Phenanthrene	mg/kg	1.3	2.5	210		<0.0053	0.0067
Pyrene	mg/kg	1.9	3.0	2300		0.0082	0.010
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.5	9.5
Barium	mg/kg	---	110	1500		65	64
Cadmium	mg/kg	---	0.6	5.2		<0.020	<0.021
Chromium, total	mg/kg	---	16.2	21		18	18
Lead	mg/kg	---	36	107		22	20
Mercury	mg/kg	---	0.06	0.89		0.032	0.030
Selenium	mg/kg	---	0.48	1.3		0.34	<0.35
Silver	mg/kg	---	0.55	4.4		0.19	0.20
Antimony	mg/kg	---	4.0	5		<0.22	<0.23
Beryllium	mg/kg	---	0.59	22		0.74	0.78
Calcium	mg/kg	---	9,300	---		24000	34000
Cobalt	mg/kg	---	8.9	20		11	13
Copper	mg/kg	---	19.6	2900		27	27
Cyanide	mg/kg	---	0.51	---		0.21	<0.13
Iron	mg/kg	---	15,900	15000		19000	22000
Magnesium	mg/kg	---	4,820	325000		16000	21000
Manganese	mg/kg	---	636	630		280	430
Nickel	mg/kg	---	18	100		28	31
Potassium	mg/kg	---	1,268	---		2200	2400
Sodium	mg/kg	---	130	---		130	140
Thallium	mg/kg	---	0.32	2.6		<0.28	<0.30
Vanadium	mg/kg	---	25.2	550		27	27
Zinc	mg/kg	---	95	5100		71	70
pH			6.25	9		7.7	8.4

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-17)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-17-B01 (0-7)	3972-COV-17-B01 (0-7) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(0-7)
					Date Collected	12/18/2020	12/18/2020
Inorganic Analytical Parameters (SPLP)							
Antimony, SPLP	mg/L	---	---	---		--	--
Arsenic, SPLP	mg/L	---	---	---		--	--
Barium, SPLP	mg/L	---	---	---		--	--
Beryllium, SPLP	mg/L	---	---	---		--	--
Cadmium, SPLP	mg/L	---	---	---		--	--
Calcium, SPLP	mg/L	---	---	---		--	--
Chromium, SPLP	mg/L	---	---	---		--	--
Cobalt, SPLP	mg/L	---	---	---		--	--
Copper, SPLP	mg/L	---	---	---		--	--
Iron, SPLP	mg/L	---	---	---		--	--
Lead, SPLP	mg/L	---	---	---		--	--
Magnesium, SPLP	mg/L	---	---	---		--	--
Manganese, SPLP	mg/L	---	---	---		--	--
Mercury, SPLP	mg/L	---	---	---		--	--
Nickel, SPLP	mg/L	---	---	---		--	--
Potassium, SPLP	mg/L	---	---	---		--	--
Selenium, SPLP	mg/L	---	---	---		--	--
Silver, SPLP	mg/L	---	---	---		--	--
Sodium, SPLP	mg/L	---	---	---		--	--
Thallium, SPLP	mg/L	---	---	---		--	--
Vanadium, SPLP	mg/L	---	---	---		--	--
Zinc, SPLP	mg/L	---	---	---		--	--
Cyanide, SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic, TCLP	mg/L	---	---	---		<0.010	<0.010
Barium, TCLP	mg/L	---	---	---		0.48	0.53
Cadmium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium, TCLP	mg/L	---	---	---		<0.010	<0.010
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.020	<0.020
Silver, TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		410	470
Cobalt, TCLP	mg/L	---	---	---		<0.010	<0.010
Copper, TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide, TCLP	mg/L	---	---	---		--	--
Iron, TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium, TCLP	mg/L	---	---	---		150	120
Manganese, TCLP	mg/L	---	---	---		0.074	0.035
Nickel, TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium, TCLP	mg/L	---	---	---		1.3	1.3
Sodium, TCLP	mg/L	---	---	---		--	--
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc, TCLP	mg/L	---	---	---		<0.020	<0.020

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-17)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 3 of 4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-17-B01 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(7-13)
					Date Collected	12/18/2020
Volatile Organic Analytical Parameters						
Acetone	mg/kg	---	---	25		0.013
Semivolatile Organic Analytical Parameters						
Acenaphthylene	mg/kg	0.03	0.07	85		0.0056
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0087
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0073
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0081
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.021
Chrysene	mg/kg	1.2	2.7	88		0.021
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0070
Naphthalene	mg/kg	0.04	0.2	1.8		0.010
Phenanthrene	mg/kg	1.3	2.5	210		0.11
Pyrene	mg/kg	1.9	3.0	2300		0.023
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		5.9
Barium	mg/kg	---	110	1500		36
Cadmium	mg/kg	---	0.6	5.2		<0.019
Chromium, total	mg/kg	---	16.2	21		18
Lead	mg/kg	---	36	107		15
Mercury	mg/kg	---	0.06	0.89		0.020
Selenium	mg/kg	---	0.48	1.3		<0.32
Silver	mg/kg	---	0.55	4.4		0.14
Antimony	mg/kg	---	4.0	5		<0.21
Beryllium	mg/kg	---	0.59	22		0.74
Calcium	mg/kg	---	9,300	---		68000
Cobalt	mg/kg	---	8.9	20		14
Copper	mg/kg	---	19.6	2900		23
Cyanide	mg/kg	---	0.51	---		<0.12
Iron	mg/kg	---	15,900	15000		24000
Magnesium	mg/kg	---	4,820	325000		38000
Manganese	mg/kg	---	636	630		350
Nickel	mg/kg	---	18	100		36
Potassium	mg/kg	---	1,268	---		3500
Sodium	mg/kg	---	130	---		150
Thallium	mg/kg	---	0.32	2.6		0.61
Vanadium	mg/kg	---	25.2	550		20
Zinc	mg/kg	---	95	5100		55
pH			6.25	9		8.0

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-17)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 4 of 4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-17-B01 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(7-13)
					Date Collected	12/18/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		<0.010
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		<0.010
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.47
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		550
Cobalt,TCLP	mg/L	---	---	---		0.075
Copper,TCLP	mg/L	---	---	---		0.014
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		64
Manganese,TCLP	mg/L	---	---	---		1.8
Nickel,TCLP	mg/L	---	---	---		0.19
Potassium,TCLP	mg/L	---	---	---		5.1
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192805-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
1/4/2021 1:47:53 PM

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

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

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



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Job ID: 500-192805-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192805-1

Receipt

The samples were received on 12/18/2020 5:50 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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



Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7)

Lab Sample ID: 500-192805-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0094	J	0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.0082	J	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Arsenic	7.5		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	65		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.74		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	27		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	22		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	16000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	24000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	280		0.56	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.34	J	0.56	0.33	mg/Kg	1	✳	6010B	Total/NA
Silver	0.19	J	0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Vanadium	27		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	71		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200		28	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	130	B	56	8.3	mg/Kg	1	✳	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.074		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.032		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.21	J	0.27	0.14	mg/Kg	1	✳	9012B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-17-B01 (0-7) Dup

Lab Sample ID: 500-192805-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.0091	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.011	J	0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J	0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.011	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.010	J	0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.0067	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.010	J	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Arsenic	9.5		0.60	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	64		0.60	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.78		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.60	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	27		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	22000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	20		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	34000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	430		0.60	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7) Dup (Continued)

Lab Sample ID: 500-192805-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.20	J	0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	140	B	60	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	470		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.030		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-17-B01 (7-13)

Lab Sample ID: 500-192805-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.013	J	0.015	0.0064	mg/Kg	1	☼	8260B	Total/NA
Acenaphthylene	0.0056	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0087	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0068	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.025	J	0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.010	J	0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		54	28	mg/Kg	5	☼	6010B	Total/NA
Lead	15		1.3	0.62	mg/Kg	5	☼	6010B	Total/NA
Magnesium	38000		27	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	68000	B	54	9.1	mg/Kg	5	☼	6010B	Total/NA
Manganese	350		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.61		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	150	B	54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.075		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	64		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.19		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (7-13) (Continued)

Lab Sample ID: 500-192805-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	5.1		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.020		0.019	0.0063	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 TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7)

Lab Sample ID: 500-192805-1

Date Collected: 12/18/20 13:55

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0069		0.016	0.0069	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Carbon disulfide	<0.00082		0.0040	0.00082	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Ethylbenzene	<0.00076		0.0016	0.00076	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
1,1,2-Trichloroethane	<0.00068		0.0016	0.00068	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	✱	12/19/20 16:35	12/28/20 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	12/19/20 16:35	12/28/20 13:45	1
Dibromofluoromethane	96		75 - 126	12/19/20 16:35	12/28/20 13:45	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	12/19/20 16:35	12/28/20 13:45	1
Toluene-d8 (Surr)	97		75 - 124	12/19/20 16:35	12/28/20 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	✱	12/28/20 17:18	12/29/20 12:38	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	✱	12/28/20 17:18	12/29/20 12:38	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	✱	12/28/20 17:18	12/29/20 12:38	1
Benzo[a]anthracene	<0.0051		0.038	0.0051	mg/Kg	✱	12/28/20 17:18	12/29/20 12:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7)

Lab Sample ID: 500-192805-1

Date Collected: 12/18/20 13:55

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0074		0.038	0.0074	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Benzo[b]fluoranthene	<0.0082		0.038	0.0082	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Fluoranthene	0.0094	J	0.038	0.0071	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Indeno[1,2,3-cd]pyrene	<0.0099		0.038	0.0099	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	12/28/20 17:18	12/29/20 12:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7)

Lab Sample ID: 500-192805-1

Date Collected: 12/18/20 13:55

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
Phenanthrene	<0.0053		0.038	0.0053	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
Phenol	<0.085		0.19	0.085	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
Pyrene	0.0082	J	0.038	0.0076	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	✳	12/28/20 17:18	12/29/20 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145				12/28/20 17:18	12/29/20 12:38	1
2-Fluorophenol	88		31 - 166				12/28/20 17:18	12/29/20 12:38	1
Nitrobenzene-d5	94		37 - 147				12/28/20 17:18	12/29/20 12:38	1
Phenol-d5	89		30 - 153				12/28/20 17:18	12/29/20 12:38	1
Terphenyl-d14	88		42 - 157				12/28/20 17:18	12/29/20 12:38	1
2,4,6-Tribromophenol	95		31 - 143				12/28/20 17:18	12/29/20 12:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Arsenic	7.5		0.56	0.19	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Barium	65		0.56	0.064	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Beryllium	0.74		0.23	0.053	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Cadmium	<0.020		0.11	0.020	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Chromium	18		0.56	0.28	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Cobalt	11		0.28	0.074	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Copper	27		0.56	0.16	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Iron	19000		11	5.9	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Lead	22		0.28	0.13	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Magnesium	16000		5.6	2.8	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Calcium	24000	B	11	1.9	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Manganese	280		0.56	0.082	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Nickel	28		0.56	0.16	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Selenium	0.34	J	0.56	0.33	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Silver	0.19	J	0.28	0.073	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Thallium	<0.28		0.56	0.28	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Vanadium	27		0.28	0.066	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Zinc	71		1.1	0.49	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Potassium	2200		28	10	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1
Sodium	130	B	56	8.3	mg/Kg	✳	12/29/20 07:22	12/30/20 21:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:29	12/30/20 18:04	1
Barium	0.48	J	0.50	0.050	mg/L		12/29/20 17:29	12/30/20 18:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:29	12/30/20 18:04	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:29	12/30/20 18:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7)

Lab Sample ID: 500-192805-1

Date Collected: 12/18/20 13:55

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	410		5.0	0.50	mg/L		12/29/20 17:29	12/30/20 18:04	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:04	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:04	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:04	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:29	12/30/20 18:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:29	12/30/20 18:04	1
Magnesium	150		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 18:04	1
Manganese	0.074		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:04	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:04	1
Potassium	1.3 J		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 18:04	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:29	12/30/20 18:04	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:04	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:04	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:29	12/30/20 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:29	12/30/20 12:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:29	12/30/20 12:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	0.0066	mg/Kg	⊛	12/24/20 11:35	12/28/20 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21 J		0.27	0.14	mg/Kg	⊛	12/28/20 10:55	12/28/20 13:11	1
pH	7.7		0.2	0.2	SU			12/23/20 16:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7) Dup

Lab Sample ID: 500-192805-2

Date Collected: 12/18/20 14:00

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0065		0.015	0.0065	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Bromomethane	<0.0014		0.0037	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
2-Butanone (MEK)	<0.0017		0.0037	0.0017	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Carbon disulfide	<0.00078		0.0037	0.00078	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Carbon tetrachloride	<0.00043		0.0015	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Chloroethane	<0.0011		0.0037	0.0011	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Chloroform	<0.00052		0.0015	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Chloromethane	<0.0015		0.0037	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Dibromochloromethane	<0.00049		0.0015	0.00049	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
1,2-Dichloroethane	<0.0012		0.0037	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
1,1-Dichloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
1,2-Dichloropropene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
1,3-Dichloropropene, Total	<0.00052		0.0015	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Ethylbenzene	<0.00072		0.0015	0.00072	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
2-Hexanone	<0.0012		0.0037	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Methylene Chloride	<0.0015		0.0037	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0037	0.0011	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Methyl tert-butyl ether	<0.00044		0.0015	0.00044	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Tetrachloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
trans-1,2-Dichloroethene	<0.00066		0.0015	0.00066	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
trans-1,3-Dichloropropene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
1,1,2-Trichloroethane	<0.00064		0.0015	0.00064	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Trichloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Vinyl acetate	<0.0013		0.0037	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Vinyl chloride	<0.00066		0.0015	0.00066	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1
Xylenes, Total	<0.00048		0.0030	0.00048	mg/Kg	☼	12/19/20 16:35	12/28/20 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	12/19/20 16:35	12/28/20 14:10	1
Dibromofluoromethane	102		75 - 126	12/19/20 16:35	12/28/20 14:10	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	12/19/20 16:35	12/28/20 14:10	1
Toluene-d8 (Surr)	95		75 - 124	12/19/20 16:35	12/28/20 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7) Dup

Lab Sample ID: 500-192805-2

Date Collected: 12/18/20 14:00

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0091	J	0.039	0.0076	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Benzo[b]fluoranthene	0.011	J	0.039	0.0085	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Benzo[g,h,i]perylene	0.030	J	0.039	0.013	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Chrysene	0.011	J	0.039	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Fluoranthene	0.010	J	0.039	0.0073	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7) Dup

Lab Sample ID: 500-192805-2

Date Collected: 12/18/20 14:00

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Phenanthrene	0.0067	J	0.039	0.0055	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Pyrene	0.010	J	0.039	0.0078	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145				12/28/20 17:18	12/29/20 14:41	1
2-Fluorophenol	89		31 - 166				12/28/20 17:18	12/29/20 14:41	1
Nitrobenzene-d5	95		37 - 147				12/28/20 17:18	12/29/20 14:41	1
Phenol-d5	92		30 - 153				12/28/20 17:18	12/29/20 14:41	1
Terphenyl-d14	88		42 - 157				12/28/20 17:18	12/29/20 14:41	1
2,4,6-Tribromophenol	99		31 - 143				12/28/20 17:18	12/29/20 14:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Arsenic	9.5		0.60	0.20	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Barium	64		0.60	0.068	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Beryllium	0.78		0.24	0.056	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Cadmium	<0.021		0.12	0.021	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Chromium	18		0.60	0.29	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Cobalt	13		0.30	0.078	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Copper	27		0.60	0.17	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Iron	22000		12	6.2	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Lead	20		0.30	0.14	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Magnesium	21000		6.0	3.0	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Calcium	34000	B	12	2.0	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Manganese	430		0.60	0.086	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Nickel	31		0.60	0.17	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Selenium	<0.35		0.60	0.35	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Silver	0.20	J	0.30	0.077	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Vanadium	27		0.30	0.070	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Zinc	70		1.2	0.52	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Potassium	2400		30	11	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1
Sodium	140	B	60	8.8	mg/Kg	☼	12/29/20 07:22	12/30/20 21:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:29	12/30/20 18:08	1
Barium	0.53		0.50	0.050	mg/L		12/29/20 17:29	12/30/20 18:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:29	12/30/20 18:08	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:29	12/30/20 18:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7) Dup

Lab Sample ID: 500-192805-2

Date Collected: 12/18/20 14:00

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	470		5.0	0.50	mg/L		12/29/20 17:29	12/30/20 18:08	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:08	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:08	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:08	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:29	12/30/20 18:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:29	12/30/20 18:08	1
Magnesium	120		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 18:08	1
Manganese	0.035		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:08	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:08	1
Potassium	1.3 J		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 18:08	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:29	12/30/20 18:08	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:08	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:08	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:29	12/30/20 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:29	12/30/20 12:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:29	12/30/20 12:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0061	mg/Kg	⊛	12/24/20 11:35	12/28/20 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	⊛	12/28/20 10:55	12/28/20 13:13	1
pH	8.4		0.2	0.2	SU			12/23/20 16:05	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (7-13)

Lab Sample ID: 500-192805-3

Date Collected: 12/18/20 14:05

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013	J	0.015	0.0064	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Bromoform	<0.00043		0.0015	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Bromomethane	<0.0014		0.0037	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
2-Butanone (MEK)	<0.0016		0.0037	0.0016	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Carbon disulfide	<0.00077		0.0037	0.00077	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Carbon tetrachloride	<0.00043		0.0015	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Chloroethane	<0.0011		0.0037	0.0011	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Chloroform	<0.00051		0.0015	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Chloromethane	<0.0015		0.0037	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
cis-1,2-Dichloroethene	<0.00041		0.0015	0.00041	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Dibromochloromethane	<0.00048		0.0015	0.00048	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
1,2-Dichloroethane	<0.0012		0.0037	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
1,1-Dichloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
1,2-Dichloropropene	<0.00038		0.0015	0.00038	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
1,3-Dichloropropene, Total	<0.00052		0.0015	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Ethylbenzene	<0.00071		0.0015	0.00071	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
2-Hexanone	<0.0012		0.0037	0.0012	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Methylene Chloride	<0.0015		0.0037	0.0015	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0037	0.0011	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Methyl tert-butyl ether	<0.00043		0.0015	0.00043	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
1,1,2,2-Tetrachloroethane	<0.00047		0.0015	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Tetrachloroethene	<0.00050		0.0015	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Toluene	<0.00037		0.0015	0.00037	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
trans-1,2-Dichloroethene	<0.00065		0.0015	0.00065	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
trans-1,3-Dichloropropene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
1,1,2-Trichloroethane	<0.00063		0.0015	0.00063	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Trichloroethene	<0.00050		0.0015	0.00050	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Vinyl acetate	<0.0013		0.0037	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Vinyl chloride	<0.00065		0.0015	0.00065	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1
Xylenes, Total	<0.00047		0.0030	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		75 - 131	12/19/20 16:35	12/28/20 14:35	1
Dibromofluoromethane	96		75 - 126	12/19/20 16:35	12/28/20 14:35	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	12/19/20 16:35	12/28/20 14:35	1
Toluene-d8 (Surr)	95		75 - 124	12/19/20 16:35	12/28/20 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.037	0.0068	mg/Kg	☼	12/28/20 17:18	12/29/20 15:05	1
Acenaphthylene	0.0056	J	0.037	0.0050	mg/Kg	☼	12/28/20 17:18	12/29/20 15:05	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	☼	12/28/20 17:18	12/29/20 15:05	1
Benzo[a]anthracene	0.0087	J	0.037	0.0051	mg/Kg	☼	12/28/20 17:18	12/29/20 15:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (7-13)

Lab Sample ID: 500-192805-3

Date Collected: 12/18/20 14:05

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0073		0.037	0.0073	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Benzo[g,h,i]perylene	0.021	J	0.037	0.012	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Carbazole	<0.094		0.19	0.094	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Chrysene	0.021	J	0.037	0.010	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Dibenz(a,h)anthracene	<0.0073		0.037	0.0073	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Fluoranthene	<0.0070		0.037	0.0070	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Fluorene	0.0068	J	0.037	0.0053	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.037	0.0098	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Isophorone	<0.042		0.19	0.042	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2-Methylnaphthalene	0.025	J	0.076	0.0069	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Naphthalene	0.010	J	0.037	0.0058	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	✱	12/28/20 17:18	12/29/20 15:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (7-13)

Lab Sample ID: 500-192805-3

Date Collected: 12/18/20 14:05

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
Phenanthrene	0.11		0.037	0.0052	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
Phenol	<0.084		0.19	0.084	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
Pyrene	0.023 J		0.037	0.0075	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	✳	12/28/20 17:18	12/29/20 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		43 - 145				12/28/20 17:18	12/29/20 15:05	1
2-Fluorophenol	97		31 - 166				12/28/20 17:18	12/29/20 15:05	1
Nitrobenzene-d5	112		37 - 147				12/28/20 17:18	12/29/20 15:05	1
Phenol-d5	94		30 - 153				12/28/20 17:18	12/29/20 15:05	1
Terphenyl-d14	91		42 - 157				12/28/20 17:18	12/29/20 15:05	1
2,4,6-Tribromophenol	96		31 - 143				12/28/20 17:18	12/29/20 15:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21		1.1	0.21	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Arsenic	5.9		0.54	0.18	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Barium	36		0.54	0.061	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Beryllium	0.74		0.22	0.050	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Cadmium	<0.019		0.11	0.019	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Chromium	18		0.54	0.27	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Cobalt	14		0.27	0.071	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Copper	23		0.54	0.15	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Iron	24000		54	28	mg/Kg	✳	12/29/20 07:22	12/31/20 11:46	5
Lead	15		1.3	0.62	mg/Kg	✳	12/29/20 07:22	12/31/20 11:46	5
Magnesium	38000		27	13	mg/Kg	✳	12/29/20 07:22	12/31/20 11:46	5
Calcium	68000 B		54	9.1	mg/Kg	✳	12/29/20 07:22	12/31/20 11:46	5
Manganese	350		0.54	0.078	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Nickel	36		0.54	0.16	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Selenium	<0.32		0.54	0.32	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Silver	0.14 J		0.27	0.070	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Thallium	0.61		0.54	0.27	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Vanadium	20		0.27	0.064	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Zinc	55		1.1	0.47	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Potassium	3500		27	9.5	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1
Sodium	150 B		54	8.0	mg/Kg	✳	12/29/20 07:22	12/30/20 21:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:29	12/30/20 18:11	1
Barium	0.47 J		0.50	0.050	mg/L		12/29/20 17:29	12/30/20 18:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:29	12/30/20 18:11	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:29	12/30/20 18:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (7-13)

Lab Sample ID: 500-192805-3

Date Collected: 12/18/20 14:05

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	550		5.0	0.50	mg/L		12/29/20 17:29	12/30/20 18:11	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:11	1
Cobalt	0.075		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:11	1
Copper	0.014	J	0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:11	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:29	12/30/20 18:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:29	12/30/20 18:11	1
Magnesium	64		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 18:11	1
Manganese	1.8		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:11	1
Nickel	0.19		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:11	1
Potassium	5.1		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 18:11	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:29	12/30/20 18:11	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:11	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 18:11	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:29	12/30/20 18:11	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:37	01/01/21 00:08	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:37	01/01/21 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:29	12/30/20 12:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:29	12/30/20 12:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 10:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0063	mg/Kg	☆	12/24/20 11:35	12/28/20 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg	☆	12/28/20 10:55	12/28/20 13:15	1
pH	8.0		0.2	0.2	SU			12/23/20 16:08	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192805-1	3972-COV-17-B01 (0-7)	90	96	95	97
500-192805-2	3972-COV-17-B01 (0-7) Dup	88	102	98	95
500-192805-3	3972-COV-17-B01 (7-13)	80	96	97	95
LCS 500-578587/4	Lab Control Sample	83	93	86	96
LCSD 500-578587/5	Lab Control Sample Dup	75	93	88	111
MB 500-578587/7	Method Blank	87	96	89	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192805-1	3972-COV-17-B01 (0-7)	93	88	94	89	88	95
500-192805-2	3972-COV-17-B01 (0-7) Dup	96	89	95	92	88	99
500-192805-3	3972-COV-17-B01 (7-13)	101	97	112	94	91	96
LCS 500-578747/2-A	Lab Control Sample	101	103	102	98	91	105
MB 500-578747/1-A	Method Blank	96	93	98	93	97	97

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: MB 500-578587/7
Matrix: Solid
Analysis Batch: 578587

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/28/20 11:15	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/28/20 11:15	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/28/20 11:15	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/28/20 11:15	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/28/20 11:15	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/28/20 11:15	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/28/20 11:15	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/28/20 11:15	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/28/20 11:15	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/28/20 11:15	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/28/20 11:15	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/28/20 11:15	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/28/20 11:15	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/28/20 11:15	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/28/20 11:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	87		75 - 131		12/28/20 11:15	1
Dibromofluoromethane	96		75 - 126		12/28/20 11:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		12/28/20 11:15	1
Toluene-d8 (Surr)	94		75 - 124		12/28/20 11:15	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: LCS 500-578587/4

Matrix: Solid

Analysis Batch: 578587

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	0.0432		mg/Kg		86	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0444		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0508		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0469		mg/Kg		94	70 - 130
2-Butanone (MEK)	0.0500	0.0383		mg/Kg		77	47 - 138
Carbon disulfide	0.0500	0.0425		mg/Kg		85	70 - 129
Carbon tetrachloride	0.0500	0.0436		mg/Kg		87	75 - 125
Chlorobenzene	0.0500	0.0464		mg/Kg		93	50 - 150
Chloroethane	0.0500	0.0472		mg/Kg		94	75 - 125
Chloroform	0.0500	0.0439		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0389		mg/Kg		78	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0427		mg/Kg		85	70 - 125
1,2-Dichloroethane	0.0500	0.0419		mg/Kg		84	70 - 130
1,1-Dichloroethene	0.0500	0.0432		mg/Kg		86	70 - 120
1,2-Dichloropropane	0.0500	0.0444		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0477		mg/Kg		95	61 - 136
2-Hexanone	0.0500	0.0441		mg/Kg		88	48 - 146
Methylene Chloride	0.0500	0.0438		mg/Kg		88	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0435		mg/Kg		87	50 - 148
Methyl tert-butyl ether	0.0500	0.0402		mg/Kg		80	50 - 140
Styrene	0.0500	0.0456		mg/Kg		91	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0417		mg/Kg		83	70 - 122
Tetrachloroethene	0.0500	0.0507		mg/Kg		101	70 - 124
Toluene	0.0500	0.0443		mg/Kg		89	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0437		mg/Kg		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,1-Trichloroethane	0.0500	0.0428		mg/Kg		86	70 - 128
1,1,2-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 125
Trichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0416		mg/Kg		83	40 - 153
Vinyl chloride	0.0500	0.0375		mg/Kg		75	70 - 125
Xylenes, Total	0.100	0.0858		mg/Kg		86	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	83		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: LCSD 500-578587/5
Matrix: Solid
Analysis Batch: 578587

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	0.0412		mg/Kg		82	40 - 150	5	30
Benzene	0.0500	0.0451		mg/Kg		90	70 - 125	4	30
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	67 - 129	2	30
Bromoform	0.0500	0.0544		mg/Kg		109	68 - 136	7	30
Bromomethane	0.0500	0.0440		mg/Kg		88	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0406		mg/Kg		81	47 - 138	6	30
Carbon disulfide	0.0500	0.0446		mg/Kg		89	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0453		mg/Kg		91	75 - 125	4	30
Chlorobenzene	0.0500	0.0472		mg/Kg		94	50 - 150	2	30
Chloroethane	0.0500	0.0469		mg/Kg		94	75 - 125	1	30
Chloroform	0.0500	0.0458		mg/Kg		92	57 - 135	4	30
Chloromethane	0.0500	0.0408		mg/Kg		82	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 125	5	30
cis-1,3-Dichloropropene	0.0500	0.0538		mg/Kg		108	70 - 125	16	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0421		mg/Kg		84	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0466		mg/Kg		93	70 - 125	5	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136	4	30
2-Hexanone	0.0500	0.0486		mg/Kg		97	48 - 146	10	30
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	12	30
Methyl tert-butyl ether	0.0500	0.0421		mg/Kg		84	50 - 140	5	30
Styrene	0.0500	0.0470		mg/Kg		94	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0366		mg/Kg		73	70 - 122	13	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	16	30
Toluene	0.0500	0.0526		mg/Kg		105	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0468		mg/Kg		94	70 - 125	7	30
trans-1,3-Dichloropropene	0.0500	0.0525		mg/Kg		105	70 - 125	19	30
1,1,1-Trichloroethane	0.0500	0.0448		mg/Kg		90	70 - 128	5	30
1,1,2-Trichloroethane	0.0500	0.0570		mg/Kg		114	70 - 125	16	30
Trichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125	0	30
Vinyl acetate	0.0500	0.0355		mg/Kg		71	40 - 153	16	30
Vinyl chloride	0.0500	0.0399		mg/Kg		80	70 - 125	6	30
Xylenes, Total	0.100	0.0894		mg/Kg		89	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	75		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	88		70 - 134
Toluene-d8 (Surr)	111		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: MB 500-578747/1-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 578747

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: MB 500-578747/1-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	12/28/20 17:18	12/29/20 11:49	1
2-Fluorophenol	93		31 - 166	12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene-d5	98		37 - 147	12/28/20 17:18	12/29/20 11:49	1
Phenol-d5	93		30 - 153	12/28/20 17:18	12/29/20 11:49	1
Terphenyl-d14	97		42 - 157	12/28/20 17:18	12/29/20 11:49	1
2,4,6-Tribromophenol	97		31 - 143	12/28/20 17:18	12/29/20 11:49	1

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.18		mg/Kg		88	68 - 120
Anthracene	1.33	1.17		mg/Kg		88	70 - 114
Benzo[a]anthracene	1.33	1.11		mg/Kg		83	67 - 122
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.26		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.33		mg/Kg		100	72 - 131
Benzo[k]fluoranthene	1.33	1.24		mg/Kg		93	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		83	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.15		mg/Kg		87	72 - 131
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.13		mg/Kg		85	71 - 129
Carbazole	1.33	1.27		mg/Kg		95	65 - 142
4-Chloroaniline	1.33	1.20		mg/Kg		90	30 - 150
4-Chloro-3-methylphenol	1.33	1.36		mg/Kg		102	65 - 122
2-Chloronaphthalene	1.33	1.22		mg/Kg		92	69 - 114
2-Chlorophenol	1.33	1.19		mg/Kg		89	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: LCS 500-578747/2-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.26		mg/Kg		95	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.32		mg/Kg		99	64 - 131
Dibenzofuran	1.33	1.27		mg/Kg		95	66 - 115
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	62 - 110
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.06		mg/Kg		80	61 - 110
3,3'-Dichlorobenzidine	1.33	0.934		mg/Kg		70	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.31		mg/Kg		98	58 - 120
2,4-Dimethylphenol	1.33	1.32		mg/Kg		99	60 - 110
Dimethyl phthalate	1.33	1.22		mg/Kg		92	69 - 116
Di-n-butyl phthalate	1.33	1.25		mg/Kg		93	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.807		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		19	10 - 100
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	69 - 124
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		89	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.23		mg/Kg		93	62 - 120
Hexachlorobenzene	1.33	1.25		mg/Kg		94	63 - 124
Hexachlorobutadiene	1.33	1.30		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.659	J	mg/Kg		49	10 - 133
Hexachloroethane	1.33	1.19		mg/Kg		89	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.31		mg/Kg		99	68 - 130
Isophorone	1.33	1.22		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.23		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.26		mg/Kg		95	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		94	57 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2-Nitroaniline	1.33	1.45		mg/Kg		109	57 - 124
3-Nitroaniline	1.33	1.03		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.00		mg/Kg		75	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		87	60 - 120
4-Nitrophenol	2.67	3.05		mg/Kg		114	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.40		mg/Kg		105	40 - 124
Pentachlorophenol	2.67	1.81		mg/Kg		68	13 - 112
Phenanthrene	1.33	1.21		mg/Kg		91	62 - 120
Phenol	1.33	1.30		mg/Kg		97	56 - 122
Pyrene	1.33	1.10		mg/Kg		83	61 - 128
1,2,4-Trichlorobenzene	1.33	1.22		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	101		43 - 145
2-Fluorophenol	103		31 - 166
Nitrobenzene-d5	102		37 - 147
Phenol-d5	98		30 - 153
Terphenyl-d14	91		42 - 157
2,4,6-Tribromophenol	105		31 - 143

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-579185/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579185

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Manganese	0.500	0.460		mg/L		92	80 - 120
Nickel	0.500	0.462		mg/L		92	80 - 120

Lab Sample ID: LB 500-579025/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579185

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:37	12/31/20 23:42	1
Nickel	<0.010		0.025	0.010	mg/L		12/30/20 17:37	12/31/20 23:42	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578814/1-A
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578814

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Barium	<0.11		1.0	0.11	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Cadmium	0.0463	J	0.20	0.036	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Copper	<0.28		1.0	0.28	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Iron	<10		20	10	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Lead	<0.23		0.50	0.23	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Magnesium	<5.0		10	5.0	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Calcium	4.91	J	20	3.4	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Silver	<0.13		0.50	0.13	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/29/20 07:22	12/30/20 20:24	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: MB 500-578814/1-A
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.12		0.50	0.12	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Potassium	<18		50	18	mg/Kg		12/29/20 07:22	12/30/20 20:24	1
Sodium	32.1	J	100	15	mg/Kg		12/29/20 07:22	12/30/20 20:24	1

Lab Sample ID: LCS 500-578814/2-A
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	44.0		mg/Kg		88	80 - 120
Arsenic	10.0	9.57		mg/Kg		96	80 - 120
Barium	200	195		mg/Kg		98	80 - 120
Beryllium	5.00	4.98		mg/Kg		100	80 - 120
Cadmium	5.00	4.61		mg/Kg		92	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	25.0	23.9		mg/Kg		96	80 - 120
Iron	100	98.8		mg/Kg		99	80 - 120
Lead	10.0	9.55		mg/Kg		95	80 - 120
Magnesium	1000	973		mg/Kg		97	80 - 120
Calcium	1000	1000		mg/Kg		100	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Selenium	10.0	8.87		mg/Kg		89	80 - 120
Silver	5.00	4.62		mg/Kg		92	80 - 120
Thallium	10.0	9.75		mg/Kg		98	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120
Potassium	1000	952		mg/Kg		95	80 - 120
Sodium	1000	974		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-578970/2-A
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	0.500	0.494	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0485		mg/L		97	80 - 120
Cadmium	0.0500	0.0498		mg/L		100	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.525		mg/L		105	80 - 120
Copper	0.250	0.252		mg/L		101	80 - 120
Iron	1.00	0.971		mg/L		97	80 - 120
Lead	0.100	0.0979		mg/L		98	80 - 120
Magnesium	10.0	9.24		mg/L		92	80 - 120
Calcium	10.0	9.78		mg/L		98	80 - 120
Manganese	0.500	0.471		mg/L		94	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: LCS 500-578970/2-A
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	0.500	0.520		mg/L		104	80 - 120
Selenium	0.100	0.0994		mg/L		99	80 - 120
Silver	0.0500	0.0514		mg/L		103	80 - 120
Vanadium	0.500	0.499		mg/L		100	80 - 120
Zinc	0.500	0.573		mg/L		115	80 - 120
Potassium	10.0	11.3		mg/L		113	80 - 120

Lab Sample ID: LB 500-578816/1-B
Matrix: Solid
Analysis Batch: 579229

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578970

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Barium	<0.050		0.50	0.050	mg/L		12/29/20 17:29	12/30/20 17:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:29	12/30/20 17:00	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:29	12/30/20 17:00	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:29	12/30/20 17:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:29	12/30/20 17:00	1
Magnesium	<0.50		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:00	1
Calcium	<0.50		5.0	0.50	mg/L		12/29/20 17:29	12/30/20 17:00	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:29	12/30/20 17:00	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:29	12/30/20 17:00	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:29	12/30/20 17:00	1
Potassium	<0.50		2.5	0.50	mg/L		12/29/20 17:29	12/30/20 17:00	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-578970/2-A
Matrix: Solid
Analysis Batch: 579155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.468		mg/L		94	80 - 120
Thallium	0.100	0.0921		mg/L		92	80 - 120

Lab Sample ID: LB 500-578816/1-B
Matrix: Solid
Analysis Batch: 579155

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578970

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:29	12/30/20 12:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:29	12/30/20 12:36	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579085/12-A
Matrix: Solid
Analysis Batch: 579317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 09:47	1

Lab Sample ID: LCS 500-579085/14-A
Matrix: Solid
Analysis Batch: 579317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00195		mg/L		98	80 - 120

Lab Sample ID: LB 500-578816/1-C
Matrix: Solid
Analysis Batch: 579317

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579085

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 09:45	12/31/20 09:49	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578500/12-A
Matrix: Solid
Analysis Batch: 578666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/24/20 11:35	12/28/20 09:21	1

Lab Sample ID: LCS 500-578500/13-A
Matrix: Solid
Analysis Batch: 578666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.184		mg/Kg		110	80 - 120

Lab Sample ID: 500-192805-2 MS
Matrix: Solid
Analysis Batch: 578666

Client Sample ID: 3972-COV-17-B01 (0-7) Dup
Prep Type: Total/NA
Prep Batch: 578500

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.030		0.0914	0.132		mg/Kg	☼	112	75 - 125

Lab Sample ID: 500-192805-2 MSD
Matrix: Solid
Analysis Batch: 578666

Client Sample ID: 3972-COV-17-B01 (0-7) Dup
Prep Type: Total/NA
Prep Batch: 578500

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.030		0.0913	0.130		mg/Kg	☼	110	75 - 125	1	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

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

Lab Sample ID: 500-192805-2 DU
 Matrix: Solid
 Analysis Batch: 578666

Client Sample ID: 3972-COV-17-B01 (0-7) Dup
 Prep Type: Total/NA
 Prep Batch: 578500

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.030		0.0312		mg/Kg	☼	5	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578662/1-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/28/20 10:55	12/28/20 12:39	1

Lab Sample ID: HLCS 500-578662/2-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	12.3		mg/Kg		102	90 - 110

Lab Sample ID: LCS 500-578662/3-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.65		mg/Kg		110	85 - 115

Lab Sample ID: LLCS 500-578662/4-A
 Matrix: Solid
 Analysis Batch: 578717

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578662

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.40		mg/Kg		117	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

GC/MS VOA

Prep Batch: 578399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	5035	
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	5035	
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	5035	

Analysis Batch: 578587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	8260B	578399
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	8260B	578399
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	8260B	578399
MB 500-578587/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578587/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578587/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	3541	
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	3541	
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	3541	
MB 500-578747/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 578863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	8270D	578747
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	8270D	578747
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	8270D	578747
MB 500-578747/1-A	Method Blank	Total/NA	Solid	8270D	578747
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	8270D	578747

Metals

Prep Batch: 578500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	7471B	
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	7471B	
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	7471B	
MB 500-578500/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578500/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-192805-2 MS	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	7471B	
500-192805-2 MSD	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	7471B	
500-192805-2 DU	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	7471B	

Analysis Batch: 578666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	7471B	578500
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	7471B	578500
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	7471B	578500
MB 500-578500/12-A	Method Blank	Total/NA	Solid	7471B	578500
LCS 500-578500/13-A	Lab Control Sample	Total/NA	Solid	7471B	578500
500-192805-2 MS	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	7471B	578500

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Metals (Continued)

Analysis Batch: 578666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-2 MSD	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	7471B	578500
500-192805-2 DU	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	7471B	578500

Prep Batch: 578814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	3050B	
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	3050B	
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	3050B	
MB 500-578814/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578814/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 578816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	TCLP	Solid	1311	
500-192805-2	3972-COV-17-B01 (0-7) Dup	TCLP	Solid	1311	
500-192805-3	3972-COV-17-B01 (7-13)	TCLP	Solid	1311	
LB 500-578816/1-B	Method Blank	TCLP	Solid	1311	
LB 500-578816/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 578970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	TCLP	Solid	3010A	578816
500-192805-2	3972-COV-17-B01 (0-7) Dup	TCLP	Solid	3010A	578816
500-192805-3	3972-COV-17-B01 (7-13)	TCLP	Solid	3010A	578816
LB 500-578816/1-B	Method Blank	TCLP	Solid	3010A	578816
LCS 500-578970/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Leach Batch: 579025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-3	3972-COV-17-B01 (7-13)	SPLP East	Solid	1312	
LB 500-579025/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 579085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	TCLP	Solid	7470A	578816
500-192805-2	3972-COV-17-B01 (0-7) Dup	TCLP	Solid	7470A	578816
500-192805-3	3972-COV-17-B01 (7-13)	TCLP	Solid	7470A	578816
LB 500-578816/1-C	Method Blank	TCLP	Solid	7470A	578816
MB 500-579085/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579085/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 579155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	TCLP	Solid	6020A	578970
500-192805-2	3972-COV-17-B01 (0-7) Dup	TCLP	Solid	6020A	578970
500-192805-3	3972-COV-17-B01 (7-13)	TCLP	Solid	6020A	578970
LB 500-578816/1-B	Method Blank	TCLP	Solid	6020A	578970
LCS 500-578970/2-A	Lab Control Sample	Total/NA	Solid	6020A	578970

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Metals

Prep Batch: 579185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-3	3972-COV-17-B01 (7-13)	SPLP East	Solid	3010A	579025
LB 500-579025/1-B	Method Blank	SPLP East	Solid	3010A	579025
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	TCLP	Solid	6010B	578970
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	6010B	578814
500-192805-2	3972-COV-17-B01 (0-7) Dup	TCLP	Solid	6010B	578970
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	6010B	578814
500-192805-3	3972-COV-17-B01 (7-13)	TCLP	Solid	6010B	578970
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	6010B	578814
LB 500-578816/1-B	Method Blank	TCLP	Solid	6010B	578970
MB 500-578814/1-A	Method Blank	Total/NA	Solid	6010B	578814
LCS 500-578814/2-A	Lab Control Sample	Total/NA	Solid	6010B	578814
LCS 500-578970/2-A	Lab Control Sample	Total/NA	Solid	6010B	578970

Analysis Batch: 579317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	TCLP	Solid	7470A	579085
500-192805-2	3972-COV-17-B01 (0-7) Dup	TCLP	Solid	7470A	579085
500-192805-3	3972-COV-17-B01 (7-13)	TCLP	Solid	7470A	579085
LB 500-578816/1-C	Method Blank	TCLP	Solid	7470A	579085
MB 500-579085/12-A	Method Blank	Total/NA	Solid	7470A	579085
LCS 500-579085/14-A	Lab Control Sample	Total/NA	Solid	7470A	579085

Analysis Batch: 579327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	6010B	578814

Analysis Batch: 579387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-3	3972-COV-17-B01 (7-13)	SPLP East	Solid	6010B	579185
LB 500-579025/1-B	Method Blank	SPLP East	Solid	6010B	579185
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	6010B	579185

General Chemistry

Analysis Batch: 578082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	Moisture	
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	Moisture	
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	9045D	
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	9045D	
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

General Chemistry

Prep Batch: 578662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	9010C	
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	9010C	
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	9010C	
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192805-1	3972-COV-17-B01 (0-7)	Total/NA	Solid	9012B	578662
500-192805-2	3972-COV-17-B01 (0-7) Dup	Total/NA	Solid	9012B	578662
500-192805-3	3972-COV-17-B01 (7-13)	Total/NA	Solid	9012B	578662
MB 500-578662/1-A	Method Blank	Total/NA	Solid	9012B	578662
HLCS 500-578662/2-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LCS 500-578662/3-A	Lab Control Sample	Total/NA	Solid	9012B	578662
LLCS 500-578662/4-A	Lab Control Sample	Total/NA	Solid	9012B	578662

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7)

Lab Sample ID: 500-192805-1

Date Collected: 12/18/20 13:55

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6010B		1	579229	12/30/20 18:04	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 12:48	FXG	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579085	12/30/20 09:45	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:06	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:02	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578082	12/22/20 15:04	LWN	TAL CHI

Client Sample ID: 3972-COV-17-B01 (0-7)

Lab Sample ID: 500-192805-1

Date Collected: 12/18/20 13:55

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 13:45	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578863	12/29/20 12:38	AJD	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579229	12/30/20 21:10	EEN	TAL CHI
Total/NA	Prep	7471B			578500	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:36	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:11	PSP	TAL CHI

Client Sample ID: 3972-COV-17-B01 (0-7) Dup

Lab Sample ID: 500-192805-2

Date Collected: 12/18/20 14:00

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6010B		1	579229	12/30/20 18:08	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 12:50	FXG	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579085	12/30/20 09:45	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:08	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:05	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578082	12/22/20 15:04	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (0-7) Dup

Lab Sample ID: 500-192805-2

Date Collected: 12/18/20 14:00

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 14:10	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578863	12/29/20 14:41	AJD	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579229	12/30/20 21:13	EEN	TAL CHI
Total/NA	Prep	7471B			578500	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:38	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:13	PSP	TAL CHI

Client Sample ID: 3972-COV-17-B01 (7-13)

Lab Sample ID: 500-192805-3

Date Collected: 12/18/20 14:05

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579025	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579185	12/30/20 17:37	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 00:08	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6010B		1	579229	12/30/20 18:11	EEN	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578970	12/29/20 17:29	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 12:53	FXG	TAL CHI
TCLP	Leach	1311			578816	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579085	12/30/20 09:45	MJG	TAL CHI
TCLP	Analysis	7470A		1	579317	12/31/20 10:10	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:08	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578082	12/22/20 15:04	LWN	TAL CHI

Client Sample ID: 3972-COV-17-B01 (7-13)

Lab Sample ID: 500-192805-3

Date Collected: 12/18/20 14:05

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 14:35	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578863	12/29/20 15:05	AJD	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579229	12/30/20 21:16	EEN	TAL CHI
Total/NA	Prep	3050B			578814	12/29/20 07:22	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579327	12/31/20 11:46	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Client Sample ID: 3972-COV-17-B01 (7-13)

Lab Sample ID: 500-192805-3

Date Collected: 12/18/20 14:05

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 86.0

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	7471B			578500	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:55	MJG	TAL CHI
Total/NA	Prep	9010C			578662	12/28/20 10:55	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578717	12/28/20 13:15	PSP	TAL CHI

Laboratory References:

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



Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192805-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192805-1	3972-COV-17-B01 (0-7)	Solid	12/18/20 13:55	12/18/20 17:50	
500-192805-2	3972-COV-17-B01 (0-7) Dup	Solid	12/18/20 14:00	12/18/20 17:50	
500-192805-3	3972-COV-17-B01 (7-13)	Solid	12/18/20 14:05	12/18/20 17:50	

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Chain of Custody Record 497492




Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>TERRACON</u> Address: <u>192 Exchange Blvd</u> City/State/Zip: <u>Greendale Heights IL</u> Phone: <u>630-445-0160</u> Fax: _____ Project Name: <u>11/20/2011W</u> Site: <u>11/20/2011W</u> P O #: _____		Project Manager: <u>Rich O'Shea</u> Tel/Email: <u>rich.o'shea@terracon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>12/18/2020</u> Carrier: _____		COC No: _____ of _____ COCs Sampler: <u>P.G.F.</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-192805</u>							
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" 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						 500-192805 COC									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC's	SubC's	Other Inorganics (PH)	TEP 23 Inorganics	SPL 23 Inorganics	Sample Specific Notes:	
1 3972-COV-17-B01 (0-7)		12/18/20	1355	G	Soil	6	N	N	X	X	X	X	X		
2 3972-COV-17-B01 (0-7)		12/18/20	1400	G	Soil	6	N	N	X	X	X	X	X		
3 3972-COV-17-B01 (7-13)		12/18/20	1405	G	Soil	6	N	N	X	X	X	X	X		
Preservation Used: 1= Ice; 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____															
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" 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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months								
Special Instructions/QC Requirements & Comments: <u>* NO ALUMINUM</u> <u>* Hold SPL 23 Inorganics per Terracon Instructions</u> <u>0.870.6</u>															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <u>1600</u>		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____									
Relinquished by: <u>[Signature]</u>		Company: <u>TERRACON</u>		Date/Time: <u>12/18/2020</u>		Received by: <u>[Signature]</u>		Company: <u>ETA</u>		Date/Time: <u>12/18/20 1600</u>					
Relinquished by: <u>[Signature]</u>		Company: <u>ETA</u>		Date/Time: <u>12/18/20 1700</u>		Received by:		Company:		Date/Time:					
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>Stephanie Hernandez</u>		Company: <u>ETA-CHI</u>		Date/Time: <u>12/18/20 1750</u>					

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192805-1

Login Number: 192805

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Irving Park (Eastbound) IDOT STA 97+50 to 100+00, Barrington (Southbound) IDOT STA 60+60 to 61+60 (ISGS 3972-COV-18)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Hanover

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.00534 Longitude: - 88.14488
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 493

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil from borings B02, B03, and B04 was sampled adjacent to ISGS Site No 3972-COV-18. See Exhibit 2 and Table 27 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Eurofins TestAmerica, Chicago Report Nos. J192917-1 and J192807-1
See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc.
 Street Address: 192 Exchange Boulevard
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/18/21
Date:



P.E or L.P.G. Seal:

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A
Preliminary Site Investigation
FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-18)
Hanover Park, Cook County, IL
Terracon Project No. 11207011W
Page 1 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-18-B02 (0-7.5)	3972-COV-18-B02 (7.5-15)
		Chicago	MSAs		Sample Depth (feet)	(0-7.5)	(7.5-15)
					Date Collected	12/22/2020	12/22/2020
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0073	<0.0073
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0054	<0.0053
Anthracene	mg/kg	0.25	0.4	12000		<0.0068	<0.0067
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0081	<0.0054
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.011	<0.0078
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.013	<0.0087
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	<0.013
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.012	<0.012
Chrysene	mg/kg	1.2	2.7	88		<0.011	<0.011
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0079	<0.0078
Fluoranthene	mg/kg	2.7	4.1	3100		0.017	<0.0075
Fluorene	mg/kg	0.1	0.18	560		<0.0057	<0.0057
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.011	<0.010
Phenanthrene	mg/kg	1.3	2.5	210		0.0062	<0.0056
Pyrene	mg/kg	1.9	3.0	2300		0.010	<0.0080
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		9.6	8.8
Barium	mg/kg	---	110	1500		86	42
Cadmium	mg/kg	---	0.6	5.2		<0.020	<0.021
Chromium, total	mg/kg	---	16.2	21		24	21
Lead	mg/kg	---	36	107		27	19
Mercury	mg/kg	---	0.06	0.89		0.039	0.022
Selenium	mg/kg	---	0.48	1.3		<0.33	<0.34
Silver	mg/kg	---	0.55	4.4		<0.073	<0.075
Antimony	mg/kg	---	4.0	5		0.57	0.59
Beryllium	mg/kg	---	0.59	22		0.96	0.83
Calcium	mg/kg	---	9,300	---		22000	69000
Cobalt	mg/kg	---	8.9	20		16	18
Copper	mg/kg	---	19.6	2900		28	25
Cyanide	mg/kg	---	0.51	---		0.19	<0.14
Iron	mg/kg	---	15,900	15000		27000	22000
Magnesium	mg/kg	---	4,820	325000		16000	34000
Manganese	mg/kg	---	636	630		400	410
Nickel	mg/kg	---	18	100		44	41
Potassium	mg/kg	---	1,268	---		2900	4000
Sodium	mg/kg	---	130	---		170	250
Thallium	mg/kg	---	0.32	2.6		0.52	0.34
Vanadium	mg/kg	---	25.2	550		33	24
Zinc	mg/kg	---	95	5100		81	62
pH			6.25	9		8.2	8.3

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-18)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-18-B02 (0-7.5)	3972-COV-18-B02 (7.5-15)
		Chicago	MSAs		Sample Depth (feet)	(0-7.5)	(7.5-15)
					Date Collected	12/22/2020	12/22/2020
Inorganic Analytical Parameters (SPLP)							
Antimony, SPLP	mg/L	---	---	---		--	--
Arsenic, SPLP	mg/L	---	---	---		--	--
Barium, SPLP	mg/L	---	---	---		--	--
Beryllium, SPLP	mg/L	---	---	---		--	--
Cadmium, SPLP	mg/L	---	---	---		--	--
Calcium, SPLP	mg/L	---	---	---		--	--
Chromium, SPLP	mg/L	---	---	---		--	--
Cobalt, SPLP	mg/L	---	---	---		--	--
Copper, SPLP	mg/L	---	---	---		--	--
Iron, SPLP	mg/L	---	---	---		--	--
Lead, SPLP	mg/L	---	---	---		--	--
Magnesium, SPLP	mg/L	---	---	---		--	--
Manganese, SPLP	mg/L	---	---	---		0.070	0.085
Mercury, SPLP	mg/L	---	---	---		--	--
Nickel, SPLP	mg/L	---	---	---		--	--
Potassium, SPLP	mg/L	---	---	---		--	--
Selenium, SPLP	mg/L	---	---	---		--	--
Silver, SPLP	mg/L	---	---	---		--	--
Sodium, SPLP	mg/L	---	---	---		--	--
Thallium, SPLP	mg/L	---	---	---		--	--
Vanadium, SPLP	mg/L	---	---	---		--	--
Zinc, SPLP	mg/L	---	---	---		--	--
Cyanide, SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic, TCLP	mg/L	---	---	---		<0.010	<0.010
Barium, TCLP	mg/L	---	---	---		0.44	0.29
Cadmium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium, TCLP	mg/L	---	---	---		<0.010	<0.010
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.020	<0.020
Silver, TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		340	530
Cobalt, TCLP	mg/L	---	---	---		<0.010	<0.010
Copper, TCLP	mg/L	---	---	---		<0.010	0.024
Cyanide, TCLP	mg/L	---	---	---		--	--
Iron, TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium, TCLP	mg/L	---	---	---		130	90
Manganese, TCLP	mg/L	---	---	---		0.23	0.91
Nickel, TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium, TCLP	mg/L	---	---	---		0.90	2.8
Sodium, TCLP	mg/L	---	---	---		--	--
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc, TCLP	mg/L	---	---	---		<0.020	0.037

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-18)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 3 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-18-B03 (0-7)	3972-COV-18-B03 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(7-13)
					Date Collected	12/18/2020	12/18/2020
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0069	<0.0069
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0051	<0.0050
Anthracene	mg/kg	0.25	0.4	12000		<0.0064	<0.0064
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0052	<0.0052
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0075	<0.0074
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0083	<0.0083
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.012	0.018
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.011	<0.011
Chrysene	mg/kg	1.2	2.7	88		<0.011	0.024
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0075	<0.0074
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0072	<0.0071
Fluorene	mg/kg	0.1	0.18	560		<0.0054	<0.0054
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010	<0.0099
Phenanthrene	mg/kg	1.3	2.5	210		<0.0054	0.053
Pyrene	mg/kg	1.9	3.0	2300		<0.0077	0.013
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		9.8	6.1
Barium	mg/kg	---	110	1500		58	30
Cadmium	mg/kg	---	0.6	5.2		<0.021	<0.020
Chromium, total	mg/kg	---	16.2	21		21	14
Lead	mg/kg	---	36	107		20	15
Mercury	mg/kg	---	0.06	0.89		0.028	0.020
Selenium	mg/kg	---	0.48	1.3		<0.34	<0.32
Silver	mg/kg	---	0.55	4.4		0.33	0.088
Antimony	mg/kg	---	4.0	5		<0.23	<0.21
Beryllium	mg/kg	---	0.59	22		0.83	0.58
Calcium	mg/kg	---	9,300	---		49000	110000
Cobalt	mg/kg	---	8.9	20		16	15
Copper	mg/kg	---	19.6	2900		27	22
Cyanide	mg/kg	---	0.51	---		<0.14	<0.14
Iron	mg/kg	---	15,900	15000		24000	20000
Magnesium	mg/kg	---	4,820	325000		25000	62000
Manganese	mg/kg	---	636	630		360	330
Nickel	mg/kg	---	18	100		40	27
Potassium	mg/kg	---	1,268	---		3200	3000
Sodium	mg/kg	---	130	---		170	160
Thallium	mg/kg	---	0.32	2.6		<0.29	<0.27
Vanadium	mg/kg	---	25.2	550		27	18
Zinc	mg/kg	---	95	5100		70	53
pH			6.25	9		8.4	7.9

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-18)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 4 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-18-B03 (0-7)	3972-COV-18-B03 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(7-13)
					Date Collected	12/18/2020	12/18/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.24	<0.010
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.49	0.33
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		460	530
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		100	90
Manganese,TCLP	mg/L	---	---	---		0.59	1.3
Nickel,TCLP	mg/L	---	---	---		<0.010	0.012
Potassium,TCLP	mg/L	---	---	---		1.5	3.2
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020	<0.020

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-18)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 5 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-18-B04 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/18/2020
Semivolatile Organic Analytical Parameters						
Acenaphthene	mg/kg	0.09	0.13	570		0.016
Acenaphthylene	mg/kg	0.03	0.07	85		0.0061
Anthracene	mg/kg	0.25	0.4	12000		0.052
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.30
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.43
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.57
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.26
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.21
Chrysene	mg/kg	1.2	2.7	88		0.35
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.059
Fluoranthene	mg/kg	2.7	4.1	3100		0.61
Fluorene	mg/kg	0.1	0.18	560		0.015
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.23
Phenanthrene	mg/kg	1.3	2.5	210		0.29
Pyrene	mg/kg	1.9	3.0	2300		0.56
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7.8
Barium	mg/kg	---	110	1500		87
Cadmium	mg/kg	---	0.6	5.2		0.084
Chromium, total	mg/kg	---	16.2	21		20
Lead	mg/kg	---	36	107		36
Mercury	mg/kg	---	0.06	0.89		0.033
Selenium	mg/kg	---	0.48	1.3		0.75
Silver	mg/kg	---	0.55	4.4		0.36
Antimony	mg/kg	---	4.0	5		<0.23
Beryllium	mg/kg	---	0.59	22		0.77
Calcium	mg/kg	---	9,300	---		7300
Cobalt	mg/kg	---	8.9	20		14
Copper	mg/kg	---	19.6	2900		25
Cyanide	mg/kg	---	0.51	---		0.31
Iron	mg/kg	---	15,900	15000		21000
Magnesium	mg/kg	---	4,820	325000		5600
Manganese	mg/kg	---	636	630		560
Nickel	mg/kg	---	18	100		28
Potassium	mg/kg	---	1,268	---		2200
Sodium	mg/kg	---	130	---		93
Thallium	mg/kg	---	0.32	2.6		<0.30
Vanadium	mg/kg	---	25.2	550		30
Zinc	mg/kg	---	95	5100		78
pH			6.25	9		7.9

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-18)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 6 of 6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-18-B04 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/18/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.34
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		180
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		76
Manganese,TCLP	mg/L	---	---	---		0.12
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		1.7
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-192917-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
1/8/2021 11:14:14 AM

Richard Wright, Senior Project Manager
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Job ID: 500-192917-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192917-1

Receipt

The samples were received on 12/22/2020 5:22 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010B: The continuing calibration verification (CCV) at line 63 was outside the control limits for Zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 3972-COV-18-B01 (0-3) (500-192917-1), 3972-COV-18-B02 (0-7.5) (500-192917-2) and 3972-COV-18-B02 (7.5-15) (500-192917-3) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: 3972-COV-18-B01 (0-3) (500-192917-1) and 3972-COV-18-B02 (7.5-15) (500-192917-3). Elevated reporting limits (RLs) are provided.

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-579346 and 500-579532 and analytical batch 500-579995 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

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: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B01 (0-3)

Lab Sample ID: 500-192917-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.011	J	0.038	0.0063	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.077		0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.10		0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.050		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.060		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.099		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.17		0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.0098	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.070		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.12		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.46	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.3		0.54	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	33		0.54	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.39		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.039	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	10		0.54	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	6.5		0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Copper	16		0.54	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	15000		54	28	mg/Kg	5	✳	6010B	Total/NA
Lead	39		1.4	0.63	mg/Kg	5	✳	6010B	Total/NA
Magnesium	61000	B	27	14	mg/Kg	5	✳	6010B	Total/NA
Calcium	100000	B	54	9.2	mg/Kg	5	✳	6010B	Total/NA
Manganese	330		0.54	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	15		0.54	0.16	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.27	0.064	mg/Kg	1	✳	6010B	Total/NA
Zinc	49		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		27	9.6	mg/Kg	1	✳	6010B	Total/NA
Sodium	660		54	8.1	mg/Kg	1	✳	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	450		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.66		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J B **	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.14	J	0.26	0.13	mg/Kg	1	✳	9012B	Total/NA
pH	9.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-18-B02 (0-7.5)

Lab Sample ID: 500-192917-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0081	J	0.041	0.0055	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.041	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.013	J	0.041	0.0088	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.017	J	0.041	0.0076	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.0062	J	0.041	0.0057	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.010	J	0.041	0.0081	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (0-7.5) (Continued)

Lab Sample ID: 500-192917-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J	1.1	0.22	mg/Kg	1	☒	6010B	Total/NA
Arsenic	9.6		0.57	0.19	mg/Kg	1	☒	6010B	Total/NA
Barium	86		0.57	0.065	mg/Kg	1	☒	6010B	Total/NA
Beryllium	0.96		0.23	0.053	mg/Kg	1	☒	6010B	Total/NA
Chromium	24		0.57	0.28	mg/Kg	1	☒	6010B	Total/NA
Cobalt	16		0.28	0.074	mg/Kg	1	☒	6010B	Total/NA
Copper	28		0.57	0.16	mg/Kg	1	☒	6010B	Total/NA
Iron	27000		11	5.9	mg/Kg	1	☒	6010B	Total/NA
Lead	27		0.28	0.13	mg/Kg	1	☒	6010B	Total/NA
Magnesium	16000	B	5.7	2.8	mg/Kg	1	☒	6010B	Total/NA
Calcium	22000	B	11	1.9	mg/Kg	1	☒	6010B	Total/NA
Manganese	400		0.57	0.082	mg/Kg	1	☒	6010B	Total/NA
Nickel	44		0.57	0.17	mg/Kg	1	☒	6010B	Total/NA
Thallium	0.52	J	0.57	0.28	mg/Kg	1	☒	6010B	Total/NA
Vanadium	33		0.28	0.067	mg/Kg	1	☒	6010B	Total/NA
Zinc	81		1.1	0.50	mg/Kg	1	☒	6010B	Total/NA
Potassium	2900		28	10	mg/Kg	1	☒	6010B	Total/NA
Sodium	170		57	8.4	mg/Kg	1	☒	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.90	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.070		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.019	0.0063	mg/Kg	1	☒	7471B	Total/NA
Cyanide, Total	0.19	J	0.27	0.14	mg/Kg	1	☒	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-18-B02 (7.5-15)

Lab Sample ID: 500-192917-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.59	J	1.2	0.23	mg/Kg	1	☒	6010B	Total/NA
Arsenic	8.8		0.58	0.20	mg/Kg	1	☒	6010B	Total/NA
Barium	42		0.58	0.066	mg/Kg	1	☒	6010B	Total/NA
Beryllium	0.83		0.23	0.054	mg/Kg	1	☒	6010B	Total/NA
Chromium	21		0.58	0.29	mg/Kg	1	☒	6010B	Total/NA
Cobalt	18		0.29	0.076	mg/Kg	1	☒	6010B	Total/NA
Copper	25		0.58	0.16	mg/Kg	1	☒	6010B	Total/NA
Iron	22000		12	6.0	mg/Kg	1	☒	6010B	Total/NA
Lead	19		1.5	0.67	mg/Kg	5	☒	6010B	Total/NA
Magnesium	34000	B	5.8	2.9	mg/Kg	1	☒	6010B	Total/NA
Calcium	69000	B	58	9.8	mg/Kg	5	☒	6010B	Total/NA
Manganese	410		0.58	0.084	mg/Kg	1	☒	6010B	Total/NA
Nickel	41		0.58	0.17	mg/Kg	1	☒	6010B	Total/NA
Thallium	0.34	J	0.58	0.29	mg/Kg	1	☒	6010B	Total/NA
Vanadium	24		0.29	0.069	mg/Kg	1	☒	6010B	Total/NA
Zinc	62		1.2	0.51	mg/Kg	1	☒	6010B	Total/NA
Potassium	4000		29	10	mg/Kg	1	☒	6010B	Total/NA
Sodium	250		58	8.6	mg/Kg	1	☒	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (7.5-15) (Continued)

Lab Sample ID: 500-192917-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	90		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.91		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J B **	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.085		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.019	0.0063	mg/Kg	1	✱	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B01 (0-3)

Lab Sample ID: 500-192917-1

Date Collected: 12/22/20 12:25

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0079		0.018	0.0079	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	12/22/20 18:05	12/30/20 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	12/22/20 18:05	12/30/20 17:15	1
Dibromofluoromethane	99		75 - 126	12/22/20 18:05	12/30/20 17:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	12/22/20 18:05	12/30/20 17:15	1
Toluene-d8 (Surr)	95		75 - 124	12/22/20 18:05	12/30/20 17:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
Anthracene	0.011	J	0.038	0.0063	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
Benzo[a]anthracene	0.077		0.038	0.0051	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B01 (0-3)

Lab Sample ID: 500-192917-1

Date Collected: 12/22/20 12:25

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.10		0.038	0.0074	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Benzo[b]fluoranthene	0.13		0.038	0.0082	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Benzo[g,h,i]perylene	0.050		0.038	0.012	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Benzo[k]fluoranthene	0.060		0.038	0.011	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Carbazole	<0.095		0.19	0.095	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Chrysene	0.099		0.038	0.010	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Dibenz(a,h)anthracene	0.015 J		0.038	0.0073	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Fluoranthene	0.17		0.038	0.0070	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.0098	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Isophorone	<0.043		0.19	0.043	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	✳	12/30/20 07:24	12/30/20 20:39	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B01 (0-3)

Lab Sample ID: 500-192917-1

Date Collected: 12/22/20 12:25

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
N-Nitrosodi-n-propylamine	<0.046		0.077	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
Phenanthrene	0.070		0.038	0.0053	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
Pyrene	0.12		0.038	0.0075	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				12/30/20 07:24	12/30/20 20:39	1
2-Fluorophenol	88		31 - 166				12/30/20 07:24	12/30/20 20:39	1
Nitrobenzene-d5	69		37 - 147				12/30/20 07:24	12/30/20 20:39	1
Phenol-d5	77		30 - 153				12/30/20 07:24	12/30/20 20:39	1
Terphenyl-d14	73		42 - 157				12/30/20 07:24	12/30/20 20:39	1
2,4,6-Tribromophenol	59		31 - 143				12/30/20 07:24	12/30/20 20:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.21	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Arsenic	6.3		0.54	0.19	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Barium	33		0.54	0.062	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Beryllium	0.39		0.22	0.051	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Cadmium	0.039	J B	0.11	0.020	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Chromium	10		0.54	0.27	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Cobalt	6.5		0.27	0.071	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Copper	16		0.54	0.15	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Iron	15000		54	28	mg/Kg	☼	12/29/20 19:05	01/05/21 23:00	5
Lead	39		1.4	0.63	mg/Kg	☼	12/29/20 19:05	01/06/21 16:28	5
Magnesium	61000	B	27	14	mg/Kg	☼	12/29/20 19:05	01/05/21 23:00	5
Calcium	100000	B	54	9.2	mg/Kg	☼	12/29/20 19:05	01/05/21 23:00	5
Manganese	330		0.54	0.079	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Nickel	15		0.54	0.16	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Silver	<0.070		0.27	0.070	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Vanadium	18		0.27	0.064	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Zinc	49		1.1	0.48	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Potassium	1400		27	9.6	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1
Sodium	660		54	8.1	mg/Kg	☼	12/29/20 19:05	01/04/21 19:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:47	1
Barium	0.39	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:26	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:47	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B01 (0-3)

Lab Sample ID: 500-192917-1

Date Collected: 12/22/20 12:25

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	450		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:26	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:47	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:47	1
Copper	0.028		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:47	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:22	1
Magnesium	100		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:26	1
Manganese	0.66		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:26	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:47	1
Potassium	2.2 J		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:26	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:22	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:47	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:47	1
Zinc	0.027 J B *+		0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.76		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 02:21	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0060	mg/Kg	☼	12/30/20 13:05	12/31/20 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.14 J		0.26	0.13	mg/Kg	☼	12/29/20 09:49	12/29/20 11:25	1
pH	9.2		0.2	0.2	SU			12/23/20 17:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (0-7.5)

Lab Sample ID: 500-192917-2

Date Collected: 12/22/20 12:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 81.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0081		0.019	0.0081	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Benzene	<0.00047		0.0019	0.00047	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Bromoform	<0.00054		0.0019	0.00054	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Carbon disulfide	<0.00097		0.0047	0.00097	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Chloroethane	<0.0014		0.0047	0.0014	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
1,2-Dichloropropene	<0.00048		0.0019	0.00048	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
1,3-Dichloropropene, Total	<0.00065		0.0019	0.00065	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Methylene Chloride	<0.0018		0.0047	0.0018	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0019	0.00059	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Tetrachloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
trans-1,2-Dichloroethene	<0.00082		0.0019	0.00082	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
trans-1,3-Dichloropropene	<0.00065		0.0019	0.00065	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
1,1,1-Trichloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
1,1,2-Trichloroethane	<0.00080		0.0019	0.00080	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Vinyl chloride	<0.00082		0.0019	0.00082	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1
Xylenes, Total	<0.00060		0.0037	0.00060	mg/Kg	☼	12/22/20 18:05	12/30/20 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	12/22/20 18:05	12/30/20 17:41	1
Dibromofluoromethane	101		75 - 126	12/22/20 18:05	12/30/20 17:41	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/22/20 18:05	12/30/20 17:41	1
Toluene-d8 (Surr)	91		75 - 124	12/22/20 18:05	12/30/20 17:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.041	0.0073	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Anthracene	<0.0068		0.041	0.0068	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Benzo[a]anthracene	0.0081	J	0.041	0.0055	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (0-7.5)

Lab Sample ID: 500-192917-2

Date Collected: 12/22/20 12:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.011	J	0.041	0.0079	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Benzo[b]fluoranthene	0.013	J	0.041	0.0088	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Benzo[g,h,i]perylene	<0.013		0.041	0.013	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Bis(2-chloroethyl)ether	<0.061		0.21	0.061	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Chrysene	<0.011		0.041	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Dibenz(a,h)anthracene	<0.0079		0.041	0.0079	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
1,4-Dichlorobenzene	<0.052		0.21	0.052	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
3,3'-Dichlorobenzidine	<0.057		0.21	0.057	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2,4-Dichlorophenol	<0.097		0.41	0.097	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Diethyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2,4-Dimethylphenol	<0.15		0.41	0.15	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Dimethyl phthalate	<0.053		0.21	0.053	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Di-n-butyl phthalate	<0.062		0.21	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2,4-Dinitrophenol	<0.72		0.82	0.72	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2,6-Dinitrotoluene	<0.080		0.21	0.080	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Fluoranthene	0.017	J	0.041	0.0076	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Fluorene	<0.0057		0.041	0.0057	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Hexachlorobenzene	<0.0095		0.082	0.0095	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Hexachlorobutadiene	<0.064		0.21	0.064	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Indeno[1,2,3-cd]pyrene	<0.011		0.041	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2-Methylnaphthalene	<0.0075		0.082	0.0075	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2-Methylphenol	<0.065		0.21	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
3 & 4 Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2-Nitrophenol	<0.096		0.41	0.096	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (0-7.5)

Lab Sample ID: 500-192917-2

Date Collected: 12/22/20 12:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2,2'-oxybis[1-chloropropane]	<0.047		0.21	0.047	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Phenanthrene	0.0062	J	0.041	0.0057	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Phenol	<0.091		0.21	0.091	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Pyrene	0.010	J	0.041	0.0081	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2,4,5-Trichlorophenol	<0.093		0.41	0.093	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	12/30/20 07:24	12/30/20 21:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		43 - 145				12/30/20 07:24	12/30/20 21:06	1
2-Fluorophenol	87		31 - 166				12/30/20 07:24	12/30/20 21:06	1
Nitrobenzene-d5	74		37 - 147				12/30/20 07:24	12/30/20 21:06	1
Phenol-d5	76		30 - 153				12/30/20 07:24	12/30/20 21:06	1
Terphenyl-d14	78		42 - 157				12/30/20 07:24	12/30/20 21:06	1
2,4,6-Tribromophenol	78		31 - 143				12/30/20 07:24	12/30/20 21:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.1	0.22	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Arsenic	9.6		0.57	0.19	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Barium	86		0.57	0.065	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Beryllium	0.96		0.23	0.053	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Cadmium	<0.020		0.11	0.020	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Chromium	24		0.57	0.28	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Cobalt	16		0.28	0.074	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Copper	28		0.57	0.16	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Iron	27000		11	5.9	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Lead	27		0.28	0.13	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Magnesium	16000	B	5.7	2.8	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Calcium	22000	B	11	1.9	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Manganese	400		0.57	0.082	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Nickel	44		0.57	0.17	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Thallium	0.52	J	0.57	0.28	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Vanadium	33		0.28	0.067	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Zinc	81		1.1	0.50	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Potassium	2900		28	10	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1
Sodium	170		57	8.4	mg/Kg	☼	12/29/20 19:05	01/04/21 19:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:50	1
Barium	0.44	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:30	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (0-7.5)

Lab Sample ID: 500-192917-2

Date Collected: 12/22/20 12:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 81.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:30	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:50	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:50	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:50	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:25	1
Magnesium	130		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:30	1
Manganese	0.23		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:30	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:50	1
Potassium	0.90	J	2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:30	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:25	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:50	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:50	1
Zinc	<0.020	*+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.070		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 02:25	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0063	mg/Kg	☼	12/30/20 13:05	12/31/20 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19	J	0.27	0.14	mg/Kg	☼	12/29/20 09:49	12/29/20 11:30	1
pH	8.2		0.2	0.2	SU			12/23/20 17:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (7.5-15)

Lab Sample ID: 500-192917-3

Date Collected: 12/22/20 12:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0074		0.017	0.0074	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Carbon disulfide	<0.00088		0.0042	0.00088	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Chlorobenzene	<0.00063		0.0017	0.00063	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Chloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Chloroform	<0.00059		0.0017	0.00059	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
1,3-Dichloropropene, Total	<0.00060		0.0017	0.00060	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Ethylbenzene	<0.00081		0.0017	0.00081	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Methylene Chloride	<0.0017		0.0042	0.0017	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0042	0.0013	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Tetrachloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
trans-1,2-Dichloroethene	<0.00075		0.0017	0.00075	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
trans-1,3-Dichloropropene	<0.00060		0.0017	0.00060	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
1,1,1-Trichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
1,1,2-Trichloroethane	<0.00073		0.0017	0.00073	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Vinyl chloride	<0.00075		0.0017	0.00075	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	12/22/20 18:05	12/30/20 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	12/22/20 18:05	12/30/20 18:06	1
Dibromofluoromethane	102		75 - 126	12/22/20 18:05	12/30/20 18:06	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	12/22/20 18:05	12/30/20 18:06	1
Toluene-d8 (Surr)	92		75 - 124	12/22/20 18:05	12/30/20 18:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (7.5-15)

Lab Sample ID: 500-192917-3

Date Collected: 12/22/20 12:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0078		0.040	0.0078	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Benzo[b]fluoranthene	<0.0087		0.040	0.0087	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Dibenz(a,h)anthracene	<0.0078		0.040	0.0078	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Fluoranthene	<0.0075		0.040	0.0075	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Hexachlorobenzene	<0.0094		0.081	0.0094	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	12/30/20 07:24	12/30/20 21:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (7.5-15)

Lab Sample ID: 500-192917-3

Date Collected: 12/22/20 12:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
Pentachlorophenol	<0.65		0.81	0.65	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
Phenol	<0.090		0.20	0.090	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
Pyrene	<0.0080		0.040	0.0080	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☆	12/30/20 07:24	12/30/20 21:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				12/30/20 07:24	12/30/20 21:35	1
2-Fluorophenol	84		31 - 166				12/30/20 07:24	12/30/20 21:35	1
Nitrobenzene-d5	74		37 - 147				12/30/20 07:24	12/30/20 21:35	1
Phenol-d5	69		30 - 153				12/30/20 07:24	12/30/20 21:35	1
Terphenyl-d14	76		42 - 157				12/30/20 07:24	12/30/20 21:35	1
2,4,6-Tribromophenol	61		31 - 143				12/30/20 07:24	12/30/20 21:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.2	0.23	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Arsenic	8.8		0.58	0.20	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Barium	42		0.58	0.066	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Beryllium	0.83		0.23	0.054	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Cadmium	<0.021		0.12	0.021	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Chromium	21		0.58	0.29	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Cobalt	18		0.29	0.076	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Copper	25		0.58	0.16	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Iron	22000		12	6.0	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Lead	19		1.5	0.67	mg/Kg	☆	12/29/20 19:05	01/06/21 16:32	5
Magnesium	34000	B	5.8	2.9	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Calcium	69000	B	58	9.8	mg/Kg	☆	12/29/20 19:05	01/05/21 23:04	5
Manganese	410		0.58	0.084	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Nickel	41		0.58	0.17	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Selenium	<0.34		0.58	0.34	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Silver	<0.075		0.29	0.075	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Thallium	0.34	J	0.58	0.29	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Vanadium	24		0.29	0.069	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Zinc	62		1.2	0.51	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Potassium	4000		29	10	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1
Sodium	250		58	8.6	mg/Kg	☆	12/29/20 19:05	01/04/21 19:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:54	1
Barium	0.29	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (7.5-15)

Lab Sample ID: 500-192917-3

Date Collected: 12/22/20 12:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:33	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:54	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:54	1
Copper	0.024	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:54	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:28	1
Magnesium	90		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:33	1
Manganese	0.91		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:33	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:54	1
Potassium	2.8		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:33	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:28	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:54	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:54	1
Zinc	0.037	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.085		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 02:28	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0063	mg/Kg	✱	12/30/20 13:05	12/31/20 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.27	0.14	mg/Kg	✱	12/29/20 09:49	12/29/20 11:31	1
pH	8.3		0.2	0.2	SU			12/23/20 17:44	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192917-1	3972-COV-18-B01 (0-3)	98	99	89	95
500-192917-2	3972-COV-18-B02 (0-7.5)	87	101	91	91
500-192917-3	3972-COV-18-B02 (7.5-15)	88	102	94	92
LCS 500-579020/4	Lab Control Sample	85	90	77	94
LCSD 500-579020/5	Lab Control Sample Dup	86	90	77	96
MB 500-579020/7	Method Blank	96	92	80	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192917-1	3972-COV-18-B01 (0-3)	75	88	69	77	73	59
500-192917-2	3972-COV-18-B02 (0-7.5)	74	87	74	76	78	78
500-192917-3	3972-COV-18-B02 (7.5-15)	75	84	74	69	76	61
LCS 500-579030/2-A	Lab Control Sample	93	102	91	91	85	112
MB 500-579030/1-A	Method Blank	85	105	89	85	87	97

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579020/7
Matrix: Solid
Analysis Batch: 579020

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/30/20 10:02	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/30/20 10:02	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/30/20 10:02	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/30/20 10:02	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/30/20 10:02	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/30/20 10:02	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/30/20 10:02	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/30/20 10:02	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/30/20 10:02	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/30/20 10:02	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/30/20 10:02	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/30/20 10:02	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/30/20 10:02	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/30/20 10:02	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/30/20 10:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		75 - 131		12/30/20 10:02	1
Dibromofluoromethane	92		75 - 126		12/30/20 10:02	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		12/30/20 10:02	1
Toluene-d8 (Surr)	92		75 - 124		12/30/20 10:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579020/4

Matrix: Solid

Analysis Batch: 579020

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	0.0504		mg/Kg		101	40 - 150
Benzene	0.0500	0.0511		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0457		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0465		mg/Kg		93	68 - 136
Bromomethane	0.0500	0.0432		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0401		mg/Kg		80	47 - 138
Carbon disulfide	0.0500	0.0547		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0500	0.0545		mg/Kg		109	75 - 125
Chlorobenzene	0.0500	0.0514		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0562		mg/Kg		112	75 - 125
Chloroform	0.0500	0.0482		mg/Kg		96	57 - 135
Chloromethane	0.0500	0.0526		mg/Kg		105	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0408		mg/Kg		82	70 - 125
Dibromochloromethane	0.0500	0.0494		mg/Kg		99	69 - 125
1,1-Dichloroethane	0.0500	0.0575		mg/Kg		115	70 - 125
1,2-Dichloroethane	0.0500	0.0435		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0542		mg/Kg		108	70 - 120
1,2-Dichloropropane	0.0500	0.0526		mg/Kg		105	70 - 125
Ethylbenzene	0.0500	0.0540		mg/Kg		108	61 - 136
2-Hexanone	0.0500	0.0377		mg/Kg		75	48 - 146
Methylene Chloride	0.0500	0.0479		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0367		mg/Kg		73	50 - 148
Methyl tert-butyl ether	0.0500	0.0389		mg/Kg		78	50 - 140
Styrene	0.0500	0.0516		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0404		mg/Kg		81	70 - 122
Tetrachloroethene	0.0500	0.0534		mg/Kg		107	70 - 124
Toluene	0.0500	0.0523		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0541		mg/Kg		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0384		mg/Kg		77	70 - 125
1,1,1-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 128
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125
Trichloroethene	0.0500	0.0548		mg/Kg		110	70 - 125
Vinyl acetate	0.0500	0.0334		mg/Kg		67	40 - 153
Vinyl chloride	0.0500	0.0569		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0999		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	85		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-579020/5
Matrix: Solid
Analysis Batch: 579020

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	0.0467		mg/Kg		93	40 - 150	8	30
Benzene	0.0500	0.0564		mg/Kg		113	70 - 125	10	30
Bromodichloromethane	0.0500	0.0505		mg/Kg		101	67 - 129	10	30
Bromoform	0.0500	0.0524		mg/Kg		105	68 - 136	12	30
Bromomethane	0.0500	0.0465		mg/Kg		93	70 - 130	8	30
2-Butanone (MEK)	0.0500	0.0387		mg/Kg		77	47 - 138	4	30
Carbon disulfide	0.0500	0.0594		mg/Kg		119	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0593		mg/Kg		119	75 - 125	8	30
Chlorobenzene	0.0500	0.0574		mg/Kg		115	50 - 150	11	30
Chloroethane	0.0500	0.0595		mg/Kg		119	75 - 125	6	30
Chloroform	0.0500	0.0527		mg/Kg		105	57 - 135	9	30
Chloromethane	0.0500	0.0556		mg/Kg		111	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 125	9	30
cis-1,3-Dichloropropene	0.0500	0.0463		mg/Kg		93	70 - 125	13	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0622		mg/Kg		124	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130	9	30
1,1-Dichloroethene	0.0500	0.0583		mg/Kg		117	70 - 120	7	30
1,2-Dichloropropane	0.0500	0.0580		mg/Kg		116	70 - 125	10	30
Ethylbenzene	0.0500	0.0600		mg/Kg		120	61 - 136	11	30
2-Hexanone	0.0500	0.0413		mg/Kg		83	48 - 146	9	30
Methylene Chloride	0.0500	0.0520		mg/Kg		104	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0409		mg/Kg		82	50 - 148	11	30
Methyl tert-butyl ether	0.0500	0.0434		mg/Kg		87	50 - 140	11	30
Styrene	0.0500	0.0578		mg/Kg		116	70 - 125	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0457		mg/Kg		91	70 - 122	12	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	11	30
Toluene	0.0500	0.0582		mg/Kg		116	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0592		mg/Kg		118	70 - 125	9	30
trans-1,3-Dichloropropene	0.0500	0.0431		mg/Kg		86	70 - 125	12	30
1,1,1-Trichloroethane	0.0500	0.0559		mg/Kg		112	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0502		mg/Kg		100	70 - 125	13	30
Trichloroethene	0.0500	0.0598		mg/Kg		120	70 - 125	9	30
Vinyl acetate	0.0500	0.0333		mg/Kg		67	40 - 153	0	30
Vinyl chloride	0.0500	0.0613		mg/Kg		123	70 - 125	7	30
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147	11	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579030/1-A

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 579030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-579030/1-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	12/30/20 07:24	12/30/20 19:14	1
2-Fluorophenol	105		31 - 166	12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene-d5	89		37 - 147	12/30/20 07:24	12/30/20 19:14	1
Phenol-d5	85		30 - 153	12/30/20 07:24	12/30/20 19:14	1
Terphenyl-d14	87		42 - 157	12/30/20 07:24	12/30/20 19:14	1
2,4,6-Tribromophenol	97		31 - 143	12/30/20 07:24	12/30/20 19:14	1

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124
Acenaphthylene	1.33	1.22		mg/Kg		91	68 - 120
Anthracene	1.33	1.12		mg/Kg		84	70 - 114
Benzo[a]anthracene	1.33	1.08		mg/Kg		81	67 - 122
Benzo[a]pyrene	1.33	1.26		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	69 - 129
Benzo[g,h,i]perylene	1.33	1.41		mg/Kg		106	72 - 131
Benzo[k]fluoranthene	1.33	1.25		mg/Kg		94	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.21		mg/Kg		90	60 - 112
Bis(2-chloroethyl)ether	1.33	1.19		mg/Kg		89	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.11		mg/Kg		83	72 - 131
4-Bromophenyl phenyl ether	1.33	1.23		mg/Kg		92	68 - 118
Butyl benzyl phthalate	1.33	1.08		mg/Kg		81	71 - 129
Carbazole	1.33	1.29		mg/Kg		97	65 - 142
4-Chloroaniline	1.33	1.10		mg/Kg		82	30 - 150
4-Chloro-3-methylphenol	1.33	1.35		mg/Kg		101	65 - 122
2-Chloronaphthalene	1.33	1.20		mg/Kg		90	69 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579030/2-A

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.24		mg/Kg		93	66 - 115
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	65 - 124
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.925		mg/Kg		69	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.06		mg/Kg		79	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		94	69 - 116
Di-n-butyl phthalate	1.33	1.14		mg/Kg		86	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.24		mg/Kg		47	10 - 110
2,4-Dinitrophenol	2.67	0.795		mg/Kg		30	10 - 100
2,4-Dinitrotoluene	1.33	1.29		mg/Kg		97	69 - 124
2,6-Dinitrotoluene	1.33	1.28		mg/Kg		96	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.18		mg/Kg		88	62 - 120
Fluorene	1.33	1.21		mg/Kg		90	62 - 120
Hexachlorobenzene	1.33	1.39		mg/Kg		104	63 - 124
Hexachlorobutadiene	1.33	1.43		mg/Kg		107	56 - 120
Hexachlorocyclopentadiene	1.33	0.506	J	mg/Kg		38	10 - 133
Hexachloroethane	1.33	1.21		mg/Kg		91	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.38		mg/Kg		104	68 - 130
Isophorone	1.33	1.23		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.18		mg/Kg		89	69 - 112
2-Methylphenol	1.33	1.44		mg/Kg		108	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		95	57 - 120
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
3-Nitroaniline	1.33	1.02		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.08		mg/Kg		81	60 - 160
Nitrobenzene	1.33	1.24		mg/Kg		93	60 - 116
2-Nitrophenol	1.33	1.18		mg/Kg		88	60 - 120
4-Nitrophenol	2.67	2.95		mg/Kg		110	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	56 - 118
N-Nitrosodiphenylamine	1.33	1.14		mg/Kg		85	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.07		mg/Kg		80	40 - 124
Pentachlorophenol	2.67	1.69		mg/Kg		63	13 - 112
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Phenol	1.33	1.17		mg/Kg		88	56 - 122
Pyrene	1.33	1.06		mg/Kg		80	61 - 128
1,2,4-Trichlorobenzene	1.33	1.27		mg/Kg		96	66 - 117
2,4,5-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		94	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	93		43 - 145
2-Fluorophenol	102		31 - 166
Nitrobenzene-d5	91		37 - 147
Phenol-d5	91		30 - 153
Terphenyl-d14	85		42 - 157
2,4,6-Tribromophenol	112		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578981/1-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578981

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Barium	<0.11		1.0	0.11	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Cadmium	0.0500	J	0.20	0.036	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Copper	<0.28		1.0	0.28	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Iron	<10		20	10	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Lead	<0.23		0.50	0.23	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Magnesium	6.23	J	10	5.0	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Calcium	9.75	J	20	3.4	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Silver	<0.13		0.50	0.13	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Zinc	<0.88	^+	2.0	0.88	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Potassium	<18		50	18	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Sodium	<15		100	15	mg/Kg		12/29/20 19:05	01/04/21 18:45	1

Lab Sample ID: LCS 500-578981/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578981

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	42.7		mg/Kg		85		80 - 120
Arsenic	10.0	9.40		mg/Kg		94		80 - 120
Barium	200	192		mg/Kg		96		80 - 120
Beryllium	5.00	4.80		mg/Kg		96		80 - 120
Cadmium	5.00	4.60		mg/Kg		92		80 - 120
Chromium	20.0	19.6		mg/Kg		98		80 - 120
Cobalt	50.0	49.6		mg/Kg		99		80 - 120
Copper	25.0	24.0		mg/Kg		96		80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-578981/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.46		mg/Kg		95	80 - 120
Magnesium	1000	960		mg/Kg		96	80 - 120
Calcium	1000	991		mg/Kg		99	80 - 120
Manganese	50.0	48.0		mg/Kg		96	80 - 120
Nickel	50.0	48.7		mg/Kg		97	80 - 120
Selenium	10.0	8.12		mg/Kg		81	80 - 120
Silver	5.00	4.46		mg/Kg		89	80 - 120
Thallium	10.0	9.55		mg/Kg		95	80 - 120
Vanadium	50.0	49.4		mg/Kg		99	80 - 120
Zinc	50.0	48.5	^+	mg/Kg		97	80 - 120
Potassium	1000	930		mg/Kg		93	80 - 120
Sodium	1000	951		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Nickel	0.500	0.541		mg/L		108	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Zinc	0.500	0.606	*+	mg/L		121	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-579535/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579535
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.491		mg/L		98	80 - 120

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.050		0.50	0.050	mg/L		01/04/21 17:53	01/05/21 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/05/21 23:59	1
Magnesium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Calcium	<0.50		5.0	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/05/21 23:59	1
Potassium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:27	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Zinc	0.0239	J	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:27	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 17:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 17:55	1

Lab Sample ID: LB 500-579349/1-B
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579535

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 01:52	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.492		mg/L		98	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:39	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579477/12-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:01	1

Lab Sample ID: LCS 500-579477/14-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-579346/1-B
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579477

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:03	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-579093/12-A
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/30/20 13:05	12/31/20 08:17	1

Lab Sample ID: LCS 500-579093/13-A
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578858/1-A
Matrix: Solid
Analysis Batch: 578907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/29/20 09:49	12/29/20 11:10	1

Lab Sample ID: HLCS 500-578858/2-A
Matrix: Solid
Analysis Batch: 578907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578858

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	11.9		mg/Kg		99	90 - 110

Lab Sample ID: LCS 500-578858/3-A
Matrix: Solid
Analysis Batch: 578907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.51		mg/Kg		105	85 - 115

Lab Sample ID: LLCS 500-578858/4-A
Matrix: Solid
Analysis Batch: 578907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578858

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.25		mg/Kg		104	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

GC/MS VOA

Prep Batch: 578787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	5035	
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	5035	
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	5035	

Analysis Batch: 579020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	8260B	578787
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	8260B	578787
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	8260B	578787
MB 500-579020/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-579020/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-579020/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 579030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	3541	
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	3541	
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	3541	
MB 500-579030/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 579167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	8270D	579030
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	8270D	579030
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	8270D	579030
MB 500-579030/1-A	Method Blank	Total/NA	Solid	8270D	579030
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	8270D	579030

Metals

Prep Batch: 578981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	3050B	
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	3050B	
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	3050B	
MB 500-578981/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578981/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 579093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	7471B	
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	7471B	
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	7471B	
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 579294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	7471B	579093

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Metals (Continued)

Analysis Batch: 579294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	7471B	579093
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	7471B	579093
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	579093
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	579093

Leach Batch: 579346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	TCLP	Solid	1311	
500-192917-2	3972-COV-18-B02 (0-7.5)	TCLP	Solid	1311	
500-192917-3	3972-COV-18-B02 (7.5-15)	TCLP	Solid	1311	
LB 500-579346/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579346/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 579349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	SPLP East	Solid	1312	
500-192917-2	3972-COV-18-B02 (0-7.5)	SPLP East	Solid	1312	
500-192917-3	3972-COV-18-B02 (7.5-15)	SPLP East	Solid	1312	
LB 500-579349/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 579477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	TCLP	Solid	7470A	579346
500-192917-2	3972-COV-18-B02 (0-7.5)	TCLP	Solid	7470A	579346
500-192917-3	3972-COV-18-B02 (7.5-15)	TCLP	Solid	7470A	579346
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579346
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	TCLP	Solid	3010A	579346
500-192917-2	3972-COV-18-B02 (0-7.5)	TCLP	Solid	3010A	579346
500-192917-3	3972-COV-18-B02 (7.5-15)	TCLP	Solid	3010A	579346
LB 500-579346/1-C	Method Blank	TCLP	Solid	3010A	579346
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 579535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	SPLP East	Solid	3010A	579349
500-192917-2	3972-COV-18-B02 (0-7.5)	SPLP East	Solid	3010A	579349
500-192917-3	3972-COV-18-B02 (7.5-15)	SPLP East	Solid	3010A	579349
LB 500-579349/1-B	Method Blank	SPLP East	Solid	3010A	579349
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	6010B	578981
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	6010B	578981
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	6010B	578981
MB 500-578981/1-A	Method Blank	Total/NA	Solid	6010B	578981

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Metals (Continued)

Analysis Batch: 579576 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-578981/2-A	Lab Control Sample	Total/NA	Solid	6010B	578981

Analysis Batch: 579681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	TCLP	Solid	7470A	579477
500-192917-2	3972-COV-18-B02 (0-7.5)	TCLP	Solid	7470A	579477
500-192917-3	3972-COV-18-B02 (7.5-15)	TCLP	Solid	7470A	579477
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579477
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	579477
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	579477

Analysis Batch: 579700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	TCLP	Solid	6020A	579532
500-192917-2	3972-COV-18-B02 (0-7.5)	TCLP	Solid	6020A	579532
500-192917-3	3972-COV-18-B02 (7.5-15)	TCLP	Solid	6020A	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6020A	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6020A	579532

Analysis Batch: 579797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	SPLP East	Solid	6010B	579535
500-192917-1	3972-COV-18-B01 (0-3)	TCLP	Solid	6010B	579532
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	6010B	578981
500-192917-2	3972-COV-18-B02 (0-7.5)	SPLP East	Solid	6010B	579535
500-192917-2	3972-COV-18-B02 (0-7.5)	TCLP	Solid	6010B	579532
500-192917-3	3972-COV-18-B02 (7.5-15)	SPLP East	Solid	6010B	579535
500-192917-3	3972-COV-18-B02 (7.5-15)	TCLP	Solid	6010B	579532
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	6010B	578981
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LB 500-579349/1-B	Method Blank	SPLP East	Solid	6010B	579535
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	6010B	579535

Analysis Batch: 579993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	6010B	578981
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	6010B	578981

Analysis Batch: 579995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	TCLP	Solid	6010B	579532
500-192917-2	3972-COV-18-B02 (0-7.5)	TCLP	Solid	6010B	579532
500-192917-3	3972-COV-18-B02 (7.5-15)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Analysis Batch: 580182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	TCLP	Solid	6010B	579532
500-192917-2	3972-COV-18-B02 (0-7.5)	TCLP	Solid	6010B	579532

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Metals (Continued)

Analysis Batch: 580182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-3	3972-COV-18-B02 (7.5-15)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

General Chemistry

Analysis Batch: 578304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	Moisture	
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	Moisture	
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	Moisture	
500-192917-2 DU	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	9045D	
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	9045D	
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	9010C	
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	9010C	
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	9010C	
MB 500-578858/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578858/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578858/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578858/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192917-1	3972-COV-18-B01 (0-3)	Total/NA	Solid	9012B	578858
500-192917-2	3972-COV-18-B02 (0-7.5)	Total/NA	Solid	9012B	578858
500-192917-3	3972-COV-18-B02 (7.5-15)	Total/NA	Solid	9012B	578858
MB 500-578858/1-A	Method Blank	Total/NA	Solid	9012B	578858
HLCS 500-578858/2-A	Lab Control Sample	Total/NA	Solid	9012B	578858
LCS 500-578858/3-A	Lab Control Sample	Total/NA	Solid	9012B	578858
LLCS 500-578858/4-A	Lab Control Sample	Total/NA	Solid	9012B	578858

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B01 (0-3)

Lab Sample ID: 500-192917-1

Date Collected: 12/22/20 12:25

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 02:21	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:26	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 21:47	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:22	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 12:51	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:16	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 17:37	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578304	12/23/20 11:12	LWN	TAL CHI

Client Sample ID: 3972-COV-18-B01 (0-3)

Lab Sample ID: 500-192917-1

Date Collected: 12/22/20 12:25

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578787	12/22/20 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 17:15	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579167	12/30/20 20:39	NRJ	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 19:30	EEN	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579797	01/05/21 23:00	EEN	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579993	01/06/21 16:28	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 08:26	MJG	TAL CHI
Total/NA	Prep	9010C			578858	12/29/20 09:49	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578907	12/29/20 11:25	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (0-7.5)

Lab Sample ID: 500-192917-2

Date Collected: 12/22/20 12:00

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 02:25	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:30	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 21:50	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:25	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 12:53	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 17:42	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578304	12/23/20 11:12	LWN	TAL CHI

Client Sample ID: 3972-COV-18-B02 (0-7.5)

Lab Sample ID: 500-192917-2

Date Collected: 12/22/20 12:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578787	12/22/20 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 17:41	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579167	12/30/20 21:06	NRJ	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 19:34	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 08:28	MJG	TAL CHI
Total/NA	Prep	9010C			578858	12/29/20 09:49	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578907	12/29/20 11:30	PSP	TAL CHI

Client Sample ID: 3972-COV-18-B02 (7.5-15)

Lab Sample ID: 500-192917-3

Date Collected: 12/22/20 12:05

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 02:28	EEN	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Client Sample ID: 3972-COV-18-B02 (7.5-15)

Lab Sample ID: 500-192917-3

Date Collected: 12/22/20 12:05

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:33	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 21:54	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:28	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 12:55	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:24	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 17:44	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578304	12/23/20 11:12	LWN	TAL CHI

Client Sample ID: 3972-COV-18-B02 (7.5-15)

Lab Sample ID: 500-192917-3

Date Collected: 12/22/20 12:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578787	12/22/20 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 18:06	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579167	12/30/20 21:35	NRJ	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 19:37	EEN	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579797	01/05/21 23:04	EEN	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579993	01/06/21 16:32	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 08:30	MJG	TAL CHI
Total/NA	Prep	9010C			578858	12/29/20 09:49	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578907	12/29/20 11:31	PSP	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192917-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192917-1	3972-COV-18-B01 (0-3)	Solid	12/22/20 12:25	12/22/20 17:22	
500-192917-2	3972-COV-18-B02 (0-7.5)	Solid	12/22/20 12:00	12/22/20 17:22	
500-192917-3	3972-COV-18-B02 (7.5-15)	Solid	12/22/20 12:05	12/22/20 17:22	

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange Blvd
Address: Glendale Heights, IL
Phone: 630-445-0166
Fax:
E-Mail: matt.weiss@terracon.com

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#



500-192917 COC

Chain of Custody Record

Lab Job #: 500-192917
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 2.9 to 0.6

Client		Client Project #		Preservative		Parameter		Project Location/State		Lab Project #		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Sampler		Lab PM									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix									
							Ubc's	Svoc's	Total 23	Inorganics/PH	TCUP 23	Inorganics	SPEC 23	Inorganics	
1		3972-COV-18-B01 (0-3)	12/22/20	1225	6	Soil	X	X	X	X	X				
2		3972-COV-18-B02 (0-7.5)	12/22/20	1200	6	Soil	X	X	X	X	X				
3		3972-COV-18-B02 (7.5-15)	12/22/20	1205	6	Soil	X	X	X	X	X				

Turnaround Time Required (Business Days)

Requested Due Date: 10 Days

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>Terracon</u>	Date: <u>12/22/20</u>	Time: <u>1610</u>	Received By: <u>[Signature]</u>	Company: <u>ETA</u>	Date: <u>12/22/20</u>	Time: <u>1610</u>
Relinquished By: <u>[Signature]</u>	Company: <u>ETA</u>	Date: <u>12/24/20</u>	Time: <u>1722</u>	Received By: <u>Stephanie Hernandez</u>	Company: <u>ETA-CHI</u>	Date: <u>12/22/20</u>	Time: <u>1722</u>

Lab Courier:
Shipped:
Hand Delivered:

Matrix Key
WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air
SE - Sediment
SO - Soil
L - Leachate
WI - Wipe
DW - Drinking Water
O - Other

Client Comments
* NO Aluminum
* Hold SPEC 23 Inorganics Per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192917-1

Login Number: 192917

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-192807-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
1/4/2021 2:12:03 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Job ID: 500-192807-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192807-1

Receipt

The samples were received on 12/18/2020 5:50 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B04 (0-3)

Lab Sample ID: 500-192807-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.016	J	0.041	0.0074	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.0061	J	0.041	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.052		0.041	0.0069	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.30		0.041	0.0055	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.43		0.041	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.57		0.041	0.0089	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.26		0.041	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.21		0.041	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.35		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.059		0.041	0.0079	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.61		0.041	0.0076	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.015	J	0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.23		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.29		0.041	0.0057	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.56		0.041	0.0081	mg/Kg	1	✳	8270D	Total/NA
Arsenic	7.8	F1	0.60	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	87		0.60	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.77		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.084	J	0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.30	0.079	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	21000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	36		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	5600	B F2	6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	7300	B F2	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	560	B	0.60	0.087	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.75	F1	0.60	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.36		0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Vanadium	30		0.30	0.071	mg/Kg	1	✳	6010B	Total/NA
Zinc	78	B F1	1.2	0.53	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200	F1	30	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	93		60	8.9	mg/Kg	1	✳	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	180		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	76		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.033		0.020	0.0068	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.31		0.30	0.15	mg/Kg	1	✳	9012B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-18-B03 (0-7)

Lab Sample ID: 500-192807-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.8		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	58		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.83		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Chromium	21		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	16		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (0-7) (Continued)

Lab Sample ID: 500-192807-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	27		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	24000		12	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	20		1.4	0.67	mg/Kg	5	✳	6010B	Total/NA
Magnesium	25000	B	5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	49000	B	58	9.8	mg/Kg	5	✳	6010B	Total/NA
Manganese	360	B	0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	40		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Silver	0.33		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Vanadium	27		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	70	B	1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Potassium	3200		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	170		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.59		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-18-B03 (7-13)

Lab Sample ID: 500-192807-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.018	J	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.024	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.053		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Arsenic	6.1		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	30		0.55	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.58		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Chromium	14		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		110	57	mg/Kg	10	✳	6010B	Total/NA
Lead	15		2.7	1.3	mg/Kg	10	✳	6010B	Total/NA
Magnesium	62000	B	55	27	mg/Kg	10	✳	6010B	Total/NA
Calcium	110000	B	110	19	mg/Kg	10	✳	6010B	Total/NA
Manganese	330	B	0.55	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	27		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Silver	0.088	J	0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.27	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	53	B	1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Potassium	3000		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	160		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	90		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (7-13) (Continued)

Lab Sample ID: 500-192807-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.020		0.018	0.0061	mg/Kg	1	*	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B04 (0-3)

Lab Sample ID: 500-192807-1

Date Collected: 12/18/20 14:30

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0079		0.018	0.0079	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Carbon disulfide	<0.00095		0.0045	0.00095	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	12/19/20 16:35	12/28/20 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	12/19/20 16:35	12/28/20 15:25	1
Dibromofluoromethane	100		75 - 126	12/19/20 16:35	12/28/20 15:25	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	12/19/20 16:35	12/28/20 15:25	1
Toluene-d8 (Surr)	93		75 - 124	12/19/20 16:35	12/28/20 15:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.016	J	0.041	0.0074	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Acenaphthylene	0.0061	J	0.041	0.0054	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Anthracene	0.052		0.041	0.0069	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Benzo[a]anthracene	0.30		0.041	0.0055	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B04 (0-3)

Lab Sample ID: 500-192807-1

Date Collected: 12/18/20 14:30

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.43		0.041	0.0079	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Benzo[b]fluoranthene	0.57		0.041	0.0089	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Benzo[g,h,i]perylene	0.26		0.041	0.013	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Benzo[k]fluoranthene	0.21		0.041	0.012	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Bis(2-chloroethyl)ether	<0.061		0.21	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Chrysene	0.35		0.041	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Dibenz(a,h)anthracene	0.059		0.041	0.0079	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
3,3'-Dichlorobenzidine	<0.057		0.21	0.057	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2,4-Dichlorophenol	<0.097		0.41	0.097	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Di-n-butyl phthalate	<0.062		0.21	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2,4-Dinitrophenol	<0.72		0.83	0.72	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Fluoranthene	0.61		0.041	0.0076	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Fluorene	0.015 J		0.041	0.0058	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Hexachlorobenzene	<0.0095		0.083	0.0095	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Hexachlorobutadiene	<0.064		0.21	0.064	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Indeno[1,2,3-cd]pyrene	0.23		0.041	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2-Methylnaphthalene	<0.0075		0.083	0.0075	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
3 & 4 Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1
2-Nitrophenol	<0.097		0.41	0.097	mg/Kg	☼	12/28/20 17:18	12/29/20 15:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B04 (0-3)

Lab Sample ID: 500-192807-1

Date Collected: 12/18/20 14:30

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
N-Nitrosodi-n-propylamine	<0.050		0.083	0.050	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
Phenanthrene	0.29		0.041	0.0057	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
Phenol	<0.091		0.21	0.091	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
Pyrene	0.56		0.041	0.0081	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	✱	12/28/20 17:18	12/29/20 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145				12/28/20 17:18	12/29/20 15:23	1
2-Fluorophenol	69		31 - 166				12/28/20 17:18	12/29/20 15:23	1
Nitrobenzene-d5	90		37 - 147				12/28/20 17:18	12/29/20 15:23	1
Phenol-d5	78		30 - 153				12/28/20 17:18	12/29/20 15:23	1
Terphenyl-d14	96		42 - 157				12/28/20 17:18	12/29/20 15:23	1
2,4,6-Tribromophenol	82		31 - 143				12/28/20 17:18	12/29/20 15:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23	F1	1.2	0.23	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Arsenic	7.8	F1	0.60	0.21	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Barium	87		0.60	0.068	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Beryllium	0.77		0.24	0.056	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Cadmium	0.084	J	0.12	0.022	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Chromium	20		0.60	0.30	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Cobalt	14		0.30	0.079	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Copper	25		0.60	0.17	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Iron	21000		12	6.2	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Lead	36		0.30	0.14	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Magnesium	5600	B F2	6.0	3.0	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Calcium	7300	B F2	12	2.0	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Manganese	560	B	0.60	0.087	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Nickel	28		0.60	0.17	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Selenium	0.75	F1	0.60	0.35	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Silver	0.36		0.30	0.077	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Thallium	<0.30		0.60	0.30	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Vanadium	30		0.30	0.071	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Zinc	78	B F1	1.2	0.53	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Potassium	2200	F1	30	11	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1
Sodium	93		60	8.9	mg/Kg	✱	12/28/20 18:57	12/31/20 01:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:27	12/31/20 13:15	1
Barium	0.34	J	0.50	0.050	mg/L		12/29/20 17:27	12/31/20 13:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:27	12/31/20 13:15	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:27	12/31/20 13:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B04 (0-3)

Lab Sample ID: 500-192807-1

Date Collected: 12/18/20 14:30

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 80.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	180		5.0	0.50	mg/L		12/29/20 17:27	12/31/20 13:15	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:15	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:15	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:15	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:27	12/31/20 13:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:27	12/31/20 13:15	1
Magnesium	76		2.5	0.50	mg/L		12/29/20 17:27	12/31/20 13:15	1
Manganese	0.12		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:15	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:15	1
Potassium	1.7 J		2.5	0.50	mg/L		12/29/20 17:27	12/31/20 13:15	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:27	12/31/20 13:15	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:15	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:15	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:27	12/31/20 13:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:27	12/30/20 13:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:27	12/30/20 13:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 06:10	12/30/20 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0068	mg/Kg	⊛	12/24/20 11:35	12/28/20 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.31		0.30	0.15	mg/Kg	⊛	12/28/20 13:48	12/28/20 15:49	1
pH	7.9		0.2	0.2	SU			12/23/20 16:10	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (0-7)

Lab Sample ID: 500-192807-2

Date Collected: 12/18/20 15:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0081		0.018	0.0081	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Bromodichloromethane	<0.00038		0.0018	0.00038	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Bromoform	<0.00054		0.0018	0.00054	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
2-Butanone (MEK)	<0.0021		0.0046	0.0021	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Carbon disulfide	<0.00096		0.0046	0.00096	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Carbon tetrachloride	<0.00054		0.0018	0.00054	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Chlorobenzene	<0.00068		0.0018	0.00068	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Chloroethane	<0.0014		0.0046	0.0014	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Chloroform	<0.00064		0.0018	0.00064	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Chloromethane	<0.0019		0.0046	0.0019	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
cis-1,2-Dichloroethene	<0.00052		0.0018	0.00052	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
cis-1,3-Dichloropropene	<0.00056		0.0018	0.00056	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
1,1-Dichloroethene	<0.00064		0.0018	0.00064	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
1,2-Dichloropropene	<0.00048		0.0018	0.00048	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
1,3-Dichloropropene, Total	<0.00065		0.0018	0.00065	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Styrene	<0.00056		0.0018	0.00056	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0018	0.00059	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Tetrachloroethene	<0.00063		0.0018	0.00063	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Toluene	<0.00047		0.0018	0.00047	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
trans-1,2-Dichloroethene	<0.00082		0.0018	0.00082	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
trans-1,3-Dichloropropene	<0.00065		0.0018	0.00065	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
1,1,1-Trichloroethane	<0.00062		0.0018	0.00062	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
1,1,2-Trichloroethane	<0.00079		0.0018	0.00079	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Trichloroethene	<0.00063		0.0018	0.00063	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Vinyl chloride	<0.00082		0.0018	0.00082	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	✱	12/19/20 16:35	12/28/20 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	12/19/20 16:35	12/28/20 15:50	1
Dibromofluoromethane	101		75 - 126	12/19/20 16:35	12/28/20 15:50	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	12/19/20 16:35	12/28/20 15:50	1
Toluene-d8 (Surr)	93		75 - 124	12/19/20 16:35	12/28/20 15:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	✱	12/28/20 17:18	12/29/20 14:32	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	✱	12/28/20 17:18	12/29/20 14:32	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	✱	12/28/20 17:18	12/29/20 14:32	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	✱	12/28/20 17:18	12/29/20 14:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (0-7)

Lab Sample ID: 500-192807-2

Date Collected: 12/18/20 15:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0075		0.038	0.0075	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Benzo[b]fluoranthene	<0.0083		0.038	0.0083	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Bis(2-ethylhexyl) phthalate	<0.071		0.19	0.071	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Chrysene	<0.011		0.038	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Dibenz(a,h)anthracene	<0.0075		0.038	0.0075	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Fluoranthene	<0.0072		0.038	0.0072	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (0-7)

Lab Sample ID: 500-192807-2

Date Collected: 12/18/20 15:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Phenanthrene	<0.0054		0.038	0.0054	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Pyrene	<0.0077		0.038	0.0077	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		43 - 145				12/28/20 17:18	12/29/20 14:32	1
2-Fluorophenol	72		31 - 166				12/28/20 17:18	12/29/20 14:32	1
Nitrobenzene-d5	99		37 - 147				12/28/20 17:18	12/29/20 14:32	1
Phenol-d5	84		30 - 153				12/28/20 17:18	12/29/20 14:32	1
Terphenyl-d14	102		42 - 157				12/28/20 17:18	12/29/20 14:32	1
2,4,6-Tribromophenol	68		31 - 143				12/28/20 17:18	12/29/20 14:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Arsenic	9.8		0.58	0.20	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Barium	58		0.58	0.066	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Beryllium	0.83		0.23	0.054	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Cadmium	<0.021		0.12	0.021	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Chromium	21		0.58	0.29	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Cobalt	16		0.29	0.076	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Copper	27		0.58	0.16	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Iron	24000		12	6.0	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Lead	20		1.4	0.67	mg/Kg	☼	12/28/20 18:57	12/31/20 18:13	5
Magnesium	25000 B		5.8	2.9	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Calcium	49000 B		58	9.8	mg/Kg	☼	12/28/20 18:57	12/31/20 18:13	5
Manganese	360 B		0.58	0.084	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Nickel	40		0.58	0.17	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Silver	0.33		0.29	0.075	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Vanadium	27		0.29	0.068	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Zinc	70 B		1.2	0.51	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Potassium	3200		29	10	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1
Sodium	170		58	8.6	mg/Kg	☼	12/28/20 18:57	12/31/20 01:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:27	12/31/20 13:19	1
Barium	0.49 J		0.50	0.050	mg/L		12/29/20 17:27	12/31/20 13:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:27	12/31/20 13:19	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:27	12/31/20 13:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (0-7)

Lab Sample ID: 500-192807-2

Date Collected: 12/18/20 15:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	460		5.0	0.50	mg/L		12/29/20 17:27	12/31/20 13:19	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:19	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:19	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:19	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:27	12/31/20 13:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:27	12/31/20 13:19	1
Magnesium	100		2.5	0.50	mg/L		12/29/20 17:27	12/31/20 13:19	1
Manganese	0.59		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:19	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:19	1
Potassium	1.5 J		2.5	0.50	mg/L		12/29/20 17:27	12/31/20 13:19	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:27	12/31/20 13:19	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:19	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:19	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:27	12/31/20 13:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24		0.025	0.010	mg/L		12/30/20 17:37	01/01/21 00:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:27	12/30/20 13:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:27	12/30/20 13:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 06:10	12/30/20 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0064	mg/Kg	✱	12/24/20 11:35	12/28/20 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	✱	12/28/20 13:48	12/28/20 15:51	1
pH	8.4		0.2	0.2	SU			12/23/20 16:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (7-13)

Lab Sample ID: 500-192807-3

Date Collected: 12/18/20 15:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0069		0.016	0.0069	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Ethylbenzene	<0.00076		0.0016	0.00076	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
1,1,2-Trichloroethane	<0.00068		0.0016	0.00068	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	✳	12/19/20 16:35	12/28/20 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	12/19/20 16:35	12/28/20 16:15	1
Dibromofluoromethane	102		75 - 126	12/19/20 16:35	12/28/20 16:15	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	12/19/20 16:35	12/28/20 16:15	1
Toluene-d8 (Surr)	96		75 - 124	12/19/20 16:35	12/28/20 16:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	✳	12/28/20 17:18	12/29/20 15:49	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	✳	12/28/20 17:18	12/29/20 15:49	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	✳	12/28/20 17:18	12/29/20 15:49	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	✳	12/28/20 17:18	12/29/20 15:49	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (7-13)

Lab Sample ID: 500-192807-3

Date Collected: 12/18/20 15:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0074		0.038	0.0074	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Benzo[b]fluoranthene	<0.0083		0.038	0.0083	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Benzo[g,h,i]perylene	0.018	J	0.038	0.012	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Chrysene	0.024	J	0.038	0.010	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Fluoranthene	<0.0071		0.038	0.0071	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Indeno[1,2,3-cd]pyrene	<0.0099		0.038	0.0099	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (7-13)

Lab Sample ID: 500-192807-3

Date Collected: 12/18/20 15:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Phenanthrene	0.053		0.038	0.0053	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Pyrene	0.013 J		0.038	0.0076	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	12/28/20 17:18	12/29/20 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		43 - 145				12/28/20 17:18	12/29/20 15:49	1
2-Fluorophenol	71		31 - 166				12/28/20 17:18	12/29/20 15:49	1
Nitrobenzene-d5	98		37 - 147				12/28/20 17:18	12/29/20 15:49	1
Phenol-d5	81		30 - 153				12/28/20 17:18	12/29/20 15:49	1
Terphenyl-d14	96		42 - 157				12/28/20 17:18	12/29/20 15:49	1
2,4,6-Tribromophenol	77		31 - 143				12/28/20 17:18	12/29/20 15:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21		1.1	0.21	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Arsenic	6.1		0.55	0.19	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Barium	30		0.55	0.062	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Beryllium	0.58		0.22	0.051	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Cadmium	<0.020		0.11	0.020	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Chromium	14		0.55	0.27	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Cobalt	15		0.27	0.072	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Copper	22		0.55	0.15	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Iron	20000		110	57	mg/Kg	☼	12/28/20 18:57	12/31/20 18:16	10
Lead	15		2.7	1.3	mg/Kg	☼	12/28/20 18:57	12/31/20 18:16	10
Magnesium	62000 B		55	27	mg/Kg	☼	12/28/20 18:57	12/31/20 18:16	10
Calcium	110000 B		110	19	mg/Kg	☼	12/28/20 18:57	12/31/20 18:16	10
Manganese	330 B		0.55	0.079	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Nickel	27		0.55	0.16	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Silver	0.088 J		0.27	0.071	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Vanadium	18		0.27	0.065	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Zinc	53 B		1.1	0.48	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Potassium	3000		27	9.7	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1
Sodium	160		55	8.1	mg/Kg	☼	12/28/20 18:57	12/31/20 02:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:27	12/31/20 13:22	1
Barium	0.33 J		0.50	0.050	mg/L		12/29/20 17:27	12/31/20 13:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:27	12/31/20 13:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:27	12/31/20 13:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (7-13)

Lab Sample ID: 500-192807-3

Date Collected: 12/18/20 15:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		12/29/20 17:27	12/31/20 13:22	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:22	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:22	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:22	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:27	12/31/20 13:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:27	12/31/20 13:22	1
Magnesium	90		2.5	0.50	mg/L		12/29/20 17:27	12/31/20 13:22	1
Manganese	1.3		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:22	1
Nickel	0.012	J	0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:22	1
Potassium	3.2		2.5	0.50	mg/L		12/29/20 17:27	12/31/20 13:22	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:27	12/31/20 13:22	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:22	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 13:22	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:27	12/31/20 13:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:37	01/01/21 00:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:27	12/30/20 13:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:27	12/30/20 13:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 06:10	12/30/20 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0061	mg/Kg	☼	12/24/20 11:35	12/28/20 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☼	12/28/20 13:48	12/28/20 15:53	1
pH	7.9		0.2	0.2	SU			12/23/20 16:15	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

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)
500-192807-1	3972-COV-18-B04 (0-3)	84	100	105	93
500-192807-2	3972-COV-18-B03 (0-7)	83	101	100	93
500-192807-3	3972-COV-18-B03 (7-13)	85	102	104	96
LCS 500-578587/4	Lab Control Sample	83	93	86	96
LCSD 500-578587/5	Lab Control Sample Dup	75	93	88	111
MB 500-578587/7	Method Blank	87	96	89	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-192807-1	3972-COV-18-B04 (0-3)	97	69	90	78	96	82
500-192807-2	3972-COV-18-B03 (0-7)	100	72	99	84	102	68
500-192807-3	3972-COV-18-B03 (7-13)	101	71	98	81	96	77
LCS 500-578747/2-A	Lab Control Sample	101	103	102	98	91	105
MB 500-578747/1-A	Method Blank	96	93	98	93	97	97

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-578587/7

Matrix: Solid

Analysis Batch: 578587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/28/20 11:15	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/28/20 11:15	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/28/20 11:15	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/28/20 11:15	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/28/20 11:15	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/28/20 11:15	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/28/20 11:15	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/28/20 11:15	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/28/20 11:15	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/28/20 11:15	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/28/20 11:15	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/28/20 11:15	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/28/20 11:15	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/28/20 11:15	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/28/20 11:15	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/28/20 11:15	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/28/20 11:15	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/28/20 11:15	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/28/20 11:15	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/28/20 11:15	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/28/20 11:15	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/28/20 11:15	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/28/20 11:15	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/28/20 11:15	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/28/20 11:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	87		75 - 131		12/28/20 11:15	1
Dibromofluoromethane	96		75 - 126		12/28/20 11:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		12/28/20 11:15	1
Toluene-d8 (Surr)	94		75 - 124		12/28/20 11:15	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-578587/4

Matrix: Solid

Analysis Batch: 578587

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	0.0432		mg/Kg		86	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0444		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0508		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0469		mg/Kg		94	70 - 130
2-Butanone (MEK)	0.0500	0.0383		mg/Kg		77	47 - 138
Carbon disulfide	0.0500	0.0425		mg/Kg		85	70 - 129
Carbon tetrachloride	0.0500	0.0436		mg/Kg		87	75 - 125
Chlorobenzene	0.0500	0.0464		mg/Kg		93	50 - 150
Chloroethane	0.0500	0.0472		mg/Kg		94	75 - 125
Chloroform	0.0500	0.0439		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0389		mg/Kg		78	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0427		mg/Kg		85	70 - 125
1,2-Dichloroethane	0.0500	0.0419		mg/Kg		84	70 - 130
1,1-Dichloroethene	0.0500	0.0432		mg/Kg		86	70 - 120
1,2-Dichloropropane	0.0500	0.0444		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0477		mg/Kg		95	61 - 136
2-Hexanone	0.0500	0.0441		mg/Kg		88	48 - 146
Methylene Chloride	0.0500	0.0438		mg/Kg		88	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0435		mg/Kg		87	50 - 148
Methyl tert-butyl ether	0.0500	0.0402		mg/Kg		80	50 - 140
Styrene	0.0500	0.0456		mg/Kg		91	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0417		mg/Kg		83	70 - 122
Tetrachloroethene	0.0500	0.0507		mg/Kg		101	70 - 124
Toluene	0.0500	0.0443		mg/Kg		89	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0437		mg/Kg		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,1-Trichloroethane	0.0500	0.0428		mg/Kg		86	70 - 128
1,1,2-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 125
Trichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0416		mg/Kg		83	40 - 153
Vinyl chloride	0.0500	0.0375		mg/Kg		75	70 - 125
Xylenes, Total	0.100	0.0858		mg/Kg		86	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	83		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-578587/5
Matrix: Solid
Analysis Batch: 578587

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	0.0412		mg/Kg		82	40 - 150	5	30
Benzene	0.0500	0.0451		mg/Kg		90	70 - 125	4	30
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	67 - 129	2	30
Bromoform	0.0500	0.0544		mg/Kg		109	68 - 136	7	30
Bromomethane	0.0500	0.0440		mg/Kg		88	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0406		mg/Kg		81	47 - 138	6	30
Carbon disulfide	0.0500	0.0446		mg/Kg		89	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0453		mg/Kg		91	75 - 125	4	30
Chlorobenzene	0.0500	0.0472		mg/Kg		94	50 - 150	2	30
Chloroethane	0.0500	0.0469		mg/Kg		94	75 - 125	1	30
Chloroform	0.0500	0.0458		mg/Kg		92	57 - 135	4	30
Chloromethane	0.0500	0.0408		mg/Kg		82	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 125	5	30
cis-1,3-Dichloropropene	0.0500	0.0538		mg/Kg		108	70 - 125	16	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0421		mg/Kg		84	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0466		mg/Kg		93	70 - 125	5	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136	4	30
2-Hexanone	0.0500	0.0486		mg/Kg		97	48 - 146	10	30
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	12	30
Methyl tert-butyl ether	0.0500	0.0421		mg/Kg		84	50 - 140	5	30
Styrene	0.0500	0.0470		mg/Kg		94	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0366		mg/Kg		73	70 - 122	13	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	16	30
Toluene	0.0500	0.0526		mg/Kg		105	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0468		mg/Kg		94	70 - 125	7	30
trans-1,3-Dichloropropene	0.0500	0.0525		mg/Kg		105	70 - 125	19	30
1,1,1-Trichloroethane	0.0500	0.0448		mg/Kg		90	70 - 128	5	30
1,1,2-Trichloroethane	0.0500	0.0570		mg/Kg		114	70 - 125	16	30
Trichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125	0	30
Vinyl acetate	0.0500	0.0355		mg/Kg		71	40 - 153	16	30
Vinyl chloride	0.0500	0.0399		mg/Kg		80	70 - 125	6	30
Xylenes, Total	0.100	0.0894		mg/Kg		89	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	75		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	88		70 - 134
Toluene-d8 (Surr)	111		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-578747/1-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 578747

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-578747/1-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/28/20 17:18	12/29/20 11:49	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/28/20 17:18	12/29/20 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	12/28/20 17:18	12/29/20 11:49	1
2-Fluorophenol	93		31 - 166	12/28/20 17:18	12/29/20 11:49	1
Nitrobenzene-d5	98		37 - 147	12/28/20 17:18	12/29/20 11:49	1
Phenol-d5	93		30 - 153	12/28/20 17:18	12/29/20 11:49	1
Terphenyl-d14	97		42 - 157	12/28/20 17:18	12/29/20 11:49	1
2,4,6-Tribromophenol	97		31 - 143	12/28/20 17:18	12/29/20 11:49	1

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.18		mg/Kg		88	68 - 120
Anthracene	1.33	1.17		mg/Kg		88	70 - 114
Benzo[a]anthracene	1.33	1.11		mg/Kg		83	67 - 122
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.26		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.33		mg/Kg		100	72 - 131
Benzo[k]fluoranthene	1.33	1.24		mg/Kg		93	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		83	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.15		mg/Kg		87	72 - 131
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.13		mg/Kg		85	71 - 129
Carbazole	1.33	1.27		mg/Kg		95	65 - 142
4-Chloroaniline	1.33	1.20		mg/Kg		90	30 - 150
4-Chloro-3-methylphenol	1.33	1.36		mg/Kg		102	65 - 122
2-Chloronaphthalene	1.33	1.22		mg/Kg		92	69 - 114
2-Chlorophenol	1.33	1.19		mg/Kg		89	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-578747/2-A

Matrix: Solid

Analysis Batch: 578863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.26		mg/Kg		95	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.32		mg/Kg		99	64 - 131
Dibenzofuran	1.33	1.27		mg/Kg		95	66 - 115
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	62 - 110
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.06		mg/Kg		80	61 - 110
3,3'-Dichlorobenzidine	1.33	0.934		mg/Kg		70	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.31		mg/Kg		98	58 - 120
2,4-Dimethylphenol	1.33	1.32		mg/Kg		99	60 - 110
Dimethyl phthalate	1.33	1.22		mg/Kg		92	69 - 116
Di-n-butyl phthalate	1.33	1.25		mg/Kg		93	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.807		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		19	10 - 100
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	69 - 124
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		89	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.23		mg/Kg		93	62 - 120
Hexachlorobenzene	1.33	1.25		mg/Kg		94	63 - 124
Hexachlorobutadiene	1.33	1.30		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.659	J	mg/Kg		49	10 - 133
Hexachloroethane	1.33	1.19		mg/Kg		89	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.31		mg/Kg		99	68 - 130
Isophorone	1.33	1.22		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.23		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.26		mg/Kg		95	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		94	57 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2-Nitroaniline	1.33	1.45		mg/Kg		109	57 - 124
3-Nitroaniline	1.33	1.03		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.00		mg/Kg		75	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		87	60 - 120
4-Nitrophenol	2.67	3.05		mg/Kg		114	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.40		mg/Kg		105	40 - 124
Pentachlorophenol	2.67	1.81		mg/Kg		68	13 - 112
Phenanthrene	1.33	1.21		mg/Kg		91	62 - 120
Phenol	1.33	1.30		mg/Kg		97	56 - 122
Pyrene	1.33	1.10		mg/Kg		83	61 - 128
1,2,4-Trichlorobenzene	1.33	1.22		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-578747/2-A
Matrix: Solid
Analysis Batch: 578863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578747

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	101		43 - 145
2-Fluorophenol	103		31 - 166
Nitrobenzene-d5	102		37 - 147
Phenol-d5	98		30 - 153
Terphenyl-d14	91		42 - 157
2,4,6-Tribromophenol	105		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578769/1-A
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578769

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Barium	<0.11		1.0	0.11	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Copper	<0.28		1.0	0.28	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Iron	<10		20	10	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Lead	<0.23		0.50	0.23	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Magnesium	5.58	J	10	5.0	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Calcium	10.6	J	20	3.4	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Manganese	0.201	J	1.0	0.15	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Silver	<0.13		0.50	0.13	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Zinc	1.15	J	2.0	0.88	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Potassium	<18		50	18	mg/Kg		12/28/20 18:57	12/31/20 01:28	1
Sodium	<15		100	15	mg/Kg		12/28/20 18:57	12/31/20 01:28	1

Lab Sample ID: LCS 500-578769/2-A
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578769

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	44.1		mg/Kg		88		80 - 120
Arsenic	10.0	9.30		mg/Kg		93		80 - 120
Barium	200	195		mg/Kg		98		80 - 120
Beryllium	5.00	4.85		mg/Kg		97		80 - 120
Cadmium	5.00	4.58		mg/Kg		92		80 - 120
Chromium	20.0	19.2		mg/Kg		96		80 - 120
Cobalt	50.0	49.5		mg/Kg		99		80 - 120
Copper	25.0	24.1		mg/Kg		96		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-578769/2-A
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	98.4		mg/Kg		98	80 - 120
Lead	10.0	9.38		mg/Kg		94	80 - 120
Magnesium	1000	950		mg/Kg		95	80 - 120
Calcium	1000	980		mg/Kg		98	80 - 120
Manganese	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Selenium	10.0	8.13		mg/Kg		81	80 - 120
Silver	5.00	4.52		mg/Kg		90	80 - 120
Thallium	10.0	9.48		mg/Kg		95	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	47.8		mg/Kg		96	80 - 120
Potassium	1000	924		mg/Kg		92	80 - 120
Sodium	1000	954		mg/Kg		95	80 - 120

Lab Sample ID: 500-192807-1 MS
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: 3972-COV-18-B04 (0-3)
Prep Type: Total/NA
Prep Batch: 578769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.23	F1	29.8	4.08	F1	mg/Kg	✱	14	75 - 125
Arsenic	7.8	F1	5.96	12.9		mg/Kg	✱	84	75 - 125
Barium	87		119	197		mg/Kg	✱	92	75 - 125
Beryllium	0.77		2.98	3.27		mg/Kg	✱	84	75 - 125
Cadmium	0.084	J	2.98	2.32		mg/Kg	✱	75	75 - 125
Chromium	20		11.9	33.1		mg/Kg	✱	112	75 - 125
Cobalt	14		29.8	45.7		mg/Kg	✱	106	75 - 125
Copper	25		14.9	37.2		mg/Kg	✱	83	75 - 125
Iron	21000		59.6	22400	4	mg/Kg	✱	2446	75 - 125
Lead	36		5.96	40.8	4	mg/Kg	✱	81	75 - 125
Magnesium	5600	B F2	596	6890	4	mg/Kg	✱	210	75 - 125
Calcium	7300	B F2	596	8190	4	mg/Kg	✱	150	75 - 125
Manganese	560	B	29.8	608	4	mg/Kg	✱	157	75 - 125
Nickel	28		29.8	61.6		mg/Kg	✱	112	75 - 125
Selenium	0.75	F1	5.96	4.55	F1	mg/Kg	✱	64	75 - 125
Silver	0.36		2.98	2.61		mg/Kg	✱	75	75 - 125
Thallium	<0.30		5.96	5.06		mg/Kg	✱	85	75 - 125
Vanadium	30		29.8	63.0		mg/Kg	✱	109	75 - 125
Zinc	78	B F1	29.8	116	F1	mg/Kg	✱	129	75 - 125
Potassium	2200	F1	596	3880	F1	mg/Kg	✱	285	75 - 125
Sodium	93		596	612		mg/Kg	✱	87	75 - 125

Lab Sample ID: 500-192807-1 MSD
Matrix: Solid
Analysis Batch: 579233

Client Sample ID: 3972-COV-18-B04 (0-3)
Prep Type: Total/NA
Prep Batch: 578769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.23	F1	28.7	4.17	F1	mg/Kg	✱	15	75 - 125	2	20
Arsenic	7.8	F1	5.73	12.1	F1	mg/Kg	✱	74	75 - 125	6	20
Barium	87		115	183		mg/Kg	✱	84	75 - 125	7	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-192807-1 MSD

Matrix: Solid

Analysis Batch: 579233

Client Sample ID: 3972-COV-18-B04 (0-3)

Prep Type: Total/NA

Prep Batch: 578769

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Beryllium	0.77		2.87	3.08		mg/Kg	☼	80	75 - 125	6	20
Cadmium	0.084	J	2.87	2.28		mg/Kg	☼	77	75 - 125	2	20
Chromium	20		11.5	29.3		mg/Kg	☼	83	75 - 125	12	20
Cobalt	14		28.7	42.6		mg/Kg	☼	100	75 - 125	7	20
Copper	25		14.3	35.8		mg/Kg	☼	77	75 - 125	4	20
Iron	21000		57.3	19800	4	mg/Kg	☼	-1948	75 - 125	12	20
Lead	36		5.73	41.4	4	mg/Kg	☼	95	75 - 125	2	20
Magnesium	5600	B F2	573	16800	4 F2	mg/Kg	☼	1939	75 - 125	83	20
Calcium	7300	B F2	573	23800	4 F2	mg/Kg	☼	2875	75 - 125	98	20
Manganese	560	B	28.7	552	4	mg/Kg	☼	-29	75 - 125	10	20
Nickel	28		28.7	56.2		mg/Kg	☼	98	75 - 125	9	20
Selenium	0.75	F1	5.73	4.30	F1	mg/Kg	☼	62	75 - 125	6	20
Silver	0.36		2.87	2.56		mg/Kg	☼	77	75 - 125	2	20
Thallium	<0.30		5.73	4.80		mg/Kg	☼	84	75 - 125	5	20
Vanadium	30		28.7	56.8		mg/Kg	☼	92	75 - 125	10	20
Zinc	78	B F1	28.7	108		mg/Kg	☼	105	75 - 125	8	20
Potassium	2200	F1	573	3630	F1	mg/Kg	☼	252	75 - 125	7	20
Sodium	93		573	605		mg/Kg	☼	89	75 - 125	1	20

Lab Sample ID: 500-192807-1 DU

Matrix: Solid

Analysis Batch: 579233

Client Sample ID: 3972-COV-18-B04 (0-3)

Prep Type: Total/NA

Prep Batch: 578769

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<0.23	F1	<0.23		mg/Kg	☼	NC	20
Arsenic	7.8	F1	7.99		mg/Kg	☼	2	20
Barium	87		88.8		mg/Kg	☼	2	20
Beryllium	0.77		0.774		mg/Kg	☼	0.5	20
Cadmium	0.084	J	0.117	J F5	mg/Kg	☼	33	20
Chromium	20		20.3		mg/Kg	☼	3	20
Cobalt	14		14.8		mg/Kg	☼	6	20
Copper	25		24.8		mg/Kg	☼	0.3	20
Iron	21000		20900		mg/Kg	☼	0.2	20
Lead	36		37.9		mg/Kg	☼	5	20
Magnesium	5600	B F2	6950	F3	mg/Kg	☼	21	20
Calcium	7300	B F2	9410	F3	mg/Kg	☼	25	20
Manganese	560	B	565		mg/Kg	☼	0.8	20
Nickel	28		28.8		mg/Kg	☼	2	20
Selenium	0.75	F1	0.619		mg/Kg	☼	19	20
Silver	0.36		0.376		mg/Kg	☼	4	20
Thallium	<0.30		<0.30		mg/Kg	☼	NC	20
Vanadium	30		31.1		mg/Kg	☼	2	20
Zinc	78	B F1	78.7		mg/Kg	☼	1	20
Potassium	2200	F1	2380		mg/Kg	☼	8	20
Sodium	93		102		mg/Kg	☼	9	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-578969/2-A
Matrix: Solid
Analysis Batch: 579327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.110		mg/L		110	80 - 120
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0491		mg/L		98	80 - 120
Cadmium	0.0500	0.0515		mg/L		103	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.543		mg/L		109	80 - 120
Copper	0.250	0.270		mg/L		108	80 - 120
Iron	1.00	0.975		mg/L		97	80 - 120
Lead	0.100	0.0944		mg/L		94	80 - 120
Magnesium	10.0	9.13		mg/L		91	80 - 120
Calcium	10.0	9.74		mg/L		97	80 - 120
Manganese	0.500	0.470		mg/L		94	80 - 120
Nickel	0.500	0.523		mg/L		105	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Silver	0.0500	0.0536		mg/L		107	80 - 120
Vanadium	0.500	0.521		mg/L		104	80 - 120
Zinc	0.500	0.564		mg/L		113	80 - 120
Potassium	10.0	11.6		mg/L		116	80 - 120

Lab Sample ID: LCS 500-579185/2-A
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.460		mg/L		92	80 - 120

Lab Sample ID: LB 500-578812/1-B
Matrix: Solid
Analysis Batch: 579327

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578969

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 17:27	12/31/20 12:32	1
Barium	<0.050		0.50	0.050	mg/L		12/29/20 17:27	12/31/20 12:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 17:27	12/31/20 12:32	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 17:27	12/31/20 12:32	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 12:32	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 12:32	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 12:32	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 17:27	12/31/20 12:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 17:27	12/31/20 12:32	1
Magnesium	<0.50		2.5	0.50	mg/L		12/29/20 17:27	12/31/20 12:32	1
Calcium	<0.50		5.0	0.50	mg/L		12/29/20 17:27	12/31/20 12:32	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 12:32	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 12:32	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 17:27	12/31/20 12:32	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 12:32	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 17:27	12/31/20 12:32	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 17:27	12/31/20 12:32	1
Potassium	<0.50		2.5	0.50	mg/L		12/29/20 17:27	12/31/20 12:32	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 6010B - Metals (ICP)

Lab Sample ID: 500-192807-3 MS
Matrix: Solid
Analysis Batch: 579327

Client Sample ID: 3972-COV-18-B03 (7-13)
Prep Type: TCLP
Prep Batch: 578969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.010		0.100	0.112		mg/L		112	75 - 125
Barium	0.33	J	0.500	0.834		mg/L		101	75 - 125
Beryllium	<0.0040		0.0500	0.0493		mg/L		99	75 - 125
Cadmium	<0.0020		0.0500	0.0520		mg/L		104	75 - 125
Chromium	<0.010		0.200	0.183		mg/L		92	75 - 125
Cobalt	<0.010		0.500	0.532		mg/L		106	75 - 125
Copper	<0.010		0.250	0.264		mg/L		106	75 - 125
Iron	<0.20		1.00	0.965		mg/L		96	75 - 125
Lead	<0.0075		0.100	0.0952		mg/L		95	75 - 125
Magnesium	90		10.0	102	4	mg/L		123	75 - 125
Calcium	530		10.0	558	4	mg/L		226	75 - 125
Manganese	1.3		0.500	1.85		mg/L		100	75 - 125
Nickel	0.012	J	0.500	0.513		mg/L		100	75 - 125
Selenium	<0.020		0.100	0.102		mg/L		102	75 - 125
Silver	<0.010		0.0500	0.0535		mg/L		107	75 - 125
Vanadium	<0.010		0.500	0.496		mg/L		99	75 - 125
Zinc	<0.020		0.500	0.523		mg/L		105	75 - 125
Potassium	3.2		10.0	14.7		mg/L		115	75 - 125

Lab Sample ID: 500-192807-3 DU
Matrix: Solid
Analysis Batch: 579327

Client Sample ID: 3972-COV-18-B03 (7-13)
Prep Type: TCLP
Prep Batch: 578969

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	<0.010		<0.010		mg/L		NC	20
Barium	0.33	J	0.324	J	mg/L		2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Chromium	<0.010		<0.010		mg/L		NC	20
Cobalt	<0.010		<0.010		mg/L		NC	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	90		88.6		mg/L		2	20
Calcium	530		525		mg/L		2	20
Manganese	1.3		1.33		mg/L		1	20
Nickel	0.012	J	0.0127	J	mg/L		6	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20
Vanadium	<0.010		<0.010		mg/L		NC	20
Zinc	<0.020		<0.020		mg/L		NC	20
Potassium	3.2		3.14		mg/L		3	20

Lab Sample ID: LB 500-579025/1-B
Matrix: Solid
Analysis Batch: 579387

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579185

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		12/30/20 17:37	12/31/20 23:42	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-578969/2-A
Matrix: Solid
Analysis Batch: 579155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.475		mg/L		95	80 - 120
Thallium	0.100	0.0932		mg/L		93	80 - 120

Lab Sample ID: LB 500-578812/1-B
Matrix: Solid
Analysis Batch: 579155

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578969

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 17:27	12/30/20 12:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 17:27	12/30/20 12:59	1

Lab Sample ID: 500-192807-3 MS
Matrix: Solid
Analysis Batch: 579155

Client Sample ID: 3972-COV-18-B03 (7-13)
Prep Type: TCLP
Prep Batch: 578969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.466		mg/L		93	75 - 125
Thallium	<0.0020		0.100	0.0934		mg/L		93	75 - 125

Lab Sample ID: 500-192807-3 DU
Matrix: Solid
Analysis Batch: 579155

Client Sample ID: 3972-COV-18-B03 (7-13)
Prep Type: TCLP
Prep Batch: 578969

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579008/12-A
Matrix: Solid
Analysis Batch: 579109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 06:10	12/30/20 09:53	1

Lab Sample ID: LCS 500-579008/14-A
Matrix: Solid
Analysis Batch: 579109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-578812/1-C
Matrix: Solid
Analysis Batch: 579109

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579008

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/20 06:10	12/30/20 09:55	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578500/12-A
Matrix: Solid
Analysis Batch: 578666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/24/20 11:35	12/28/20 09:21	1

Lab Sample ID: LCS 500-578500/13-A
Matrix: Solid
Analysis Batch: 578666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.184		mg/Kg		110	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578679/1-A
Matrix: Solid
Analysis Batch: 578735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/28/20 13:48	12/28/20 15:06	1

Lab Sample ID: HLCS 500-578679/2-A
Matrix: Solid
Analysis Batch: 578735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578679

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	11.7		mg/Kg		98	90 - 110

Lab Sample ID: LCS 500-578679/3-A
Matrix: Solid
Analysis Batch: 578735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578679

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.51		mg/Kg		105	85 - 115

Lab Sample ID: LLCS 500-578679/4-A
Matrix: Solid
Analysis Batch: 578735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578679

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.26		mg/Kg		105	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

GC/MS VOA

Prep Batch: 578399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	5035	
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	5035	
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	5035	

Analysis Batch: 578587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	8260B	578399
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	8260B	578399
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	8260B	578399
MB 500-578587/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578587/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578587/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	3541	
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	3541	
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	3541	
MB 500-578747/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 578843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	8270D	578747
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	8270D	578747
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	8270D	578747

Analysis Batch: 578863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-578747/1-A	Method Blank	Total/NA	Solid	8270D	578747
LCS 500-578747/2-A	Lab Control Sample	Total/NA	Solid	8270D	578747

Metals

Prep Batch: 578500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	7471B	
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	7471B	
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	7471B	
MB 500-578500/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578500/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 578666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	7471B	578500
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	7471B	578500
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	7471B	578500
MB 500-578500/12-A	Method Blank	Total/NA	Solid	7471B	578500
LCS 500-578500/13-A	Lab Control Sample	Total/NA	Solid	7471B	578500

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Metals

Prep Batch: 578769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	3050B	
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	3050B	
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	3050B	
MB 500-578769/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578769/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-192807-1 MS	3972-COV-18-B04 (0-3)	Total/NA	Solid	3050B	
500-192807-1 MSD	3972-COV-18-B04 (0-3)	Total/NA	Solid	3050B	
500-192807-1 DU	3972-COV-18-B04 (0-3)	Total/NA	Solid	3050B	

Leach Batch: 578812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	TCLP	Solid	1311	
500-192807-2	3972-COV-18-B03 (0-7)	TCLP	Solid	1311	
500-192807-3	3972-COV-18-B03 (7-13)	TCLP	Solid	1311	
LB 500-578812/1-B	Method Blank	TCLP	Solid	1311	
LB 500-578812/1-C	Method Blank	TCLP	Solid	1311	
500-192807-3 MS	3972-COV-18-B03 (7-13)	TCLP	Solid	1311	
500-192807-3 DU	3972-COV-18-B03 (7-13)	TCLP	Solid	1311	

Prep Batch: 578969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	TCLP	Solid	3010A	578812
500-192807-2	3972-COV-18-B03 (0-7)	TCLP	Solid	3010A	578812
500-192807-3	3972-COV-18-B03 (7-13)	TCLP	Solid	3010A	578812
LB 500-578812/1-B	Method Blank	TCLP	Solid	3010A	578812
LCS 500-578969/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-192807-3 MS	3972-COV-18-B03 (7-13)	TCLP	Solid	3010A	578812
500-192807-3 DU	3972-COV-18-B03 (7-13)	TCLP	Solid	3010A	578812

Prep Batch: 579008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	TCLP	Solid	7470A	578812
500-192807-2	3972-COV-18-B03 (0-7)	TCLP	Solid	7470A	578812
500-192807-3	3972-COV-18-B03 (7-13)	TCLP	Solid	7470A	578812
LB 500-578812/1-C	Method Blank	TCLP	Solid	7470A	578812
MB 500-579008/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579008/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Leach Batch: 579025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-2	3972-COV-18-B03 (0-7)	SPLP East	Solid	1312	
500-192807-3	3972-COV-18-B03 (7-13)	SPLP East	Solid	1312	
LB 500-579025/1-B	Method Blank	SPLP East	Solid	1312	

Analysis Batch: 579109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	TCLP	Solid	7470A	579008
500-192807-2	3972-COV-18-B03 (0-7)	TCLP	Solid	7470A	579008
500-192807-3	3972-COV-18-B03 (7-13)	TCLP	Solid	7470A	579008
LB 500-578812/1-C	Method Blank	TCLP	Solid	7470A	579008
MB 500-579008/12-A	Method Blank	Total/NA	Solid	7470A	579008

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Metals (Continued)

Analysis Batch: 579109 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-579008/14-A	Lab Control Sample	Total/NA	Solid	7470A	579008

Analysis Batch: 579155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	TCLP	Solid	6020A	578969
500-192807-2	3972-COV-18-B03 (0-7)	TCLP	Solid	6020A	578969
500-192807-3	3972-COV-18-B03 (7-13)	TCLP	Solid	6020A	578969
LB 500-578812/1-B	Method Blank	TCLP	Solid	6020A	578969
LCS 500-578969/2-A	Lab Control Sample	Total/NA	Solid	6020A	578969
500-192807-3 MS	3972-COV-18-B03 (7-13)	TCLP	Solid	6020A	578969
500-192807-3 DU	3972-COV-18-B03 (7-13)	TCLP	Solid	6020A	578969

Prep Batch: 579185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-2	3972-COV-18-B03 (0-7)	SPLP East	Solid	3010A	579025
500-192807-3	3972-COV-18-B03 (7-13)	SPLP East	Solid	3010A	579025
LB 500-579025/1-B	Method Blank	SPLP East	Solid	3010A	579025
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	6010B	578769
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	6010B	578769
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	6010B	578769
MB 500-578769/1-A	Method Blank	Total/NA	Solid	6010B	578769
LCS 500-578769/2-A	Lab Control Sample	Total/NA	Solid	6010B	578769
500-192807-1 MS	3972-COV-18-B04 (0-3)	Total/NA	Solid	6010B	578769
500-192807-1 MSD	3972-COV-18-B04 (0-3)	Total/NA	Solid	6010B	578769
500-192807-1 DU	3972-COV-18-B04 (0-3)	Total/NA	Solid	6010B	578769

Analysis Batch: 579327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	TCLP	Solid	6010B	578969
500-192807-2	3972-COV-18-B03 (0-7)	TCLP	Solid	6010B	578969
500-192807-3	3972-COV-18-B03 (7-13)	TCLP	Solid	6010B	578969
LB 500-578812/1-B	Method Blank	TCLP	Solid	6010B	578969
LCS 500-578969/2-A	Lab Control Sample	Total/NA	Solid	6010B	578969
500-192807-3 MS	3972-COV-18-B03 (7-13)	TCLP	Solid	6010B	578969
500-192807-3 DU	3972-COV-18-B03 (7-13)	TCLP	Solid	6010B	578969

Analysis Batch: 579386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	6010B	578769
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	6010B	578769

Analysis Batch: 579387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-2	3972-COV-18-B03 (0-7)	SPLP East	Solid	6010B	579185
500-192807-3	3972-COV-18-B03 (7-13)	SPLP East	Solid	6010B	579185
LB 500-579025/1-B	Method Blank	SPLP East	Solid	6010B	579185
LCS 500-579185/2-A	Lab Control Sample	Total/NA	Solid	6010B	579185

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

General Chemistry

Analysis Batch: 578082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	Moisture	
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	Moisture	
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	9045D	
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	9045D	
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	9010C	
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	9010C	
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	9010C	
MB 500-578679/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578679/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578679/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578679/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192807-1	3972-COV-18-B04 (0-3)	Total/NA	Solid	9012B	578679
500-192807-2	3972-COV-18-B03 (0-7)	Total/NA	Solid	9012B	578679
500-192807-3	3972-COV-18-B03 (7-13)	Total/NA	Solid	9012B	578679
MB 500-578679/1-A	Method Blank	Total/NA	Solid	9012B	578679
HLCS 500-578679/2-A	Lab Control Sample	Total/NA	Solid	9012B	578679
LCS 500-578679/3-A	Lab Control Sample	Total/NA	Solid	9012B	578679
LLCS 500-578679/4-A	Lab Control Sample	Total/NA	Solid	9012B	578679

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B04 (0-3)

Lab Sample ID: 500-192807-1

Date Collected: 12/18/20 14:30

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			578812	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578969	12/29/20 17:27	BDE	TAL CHI
TCLP	Analysis	6010B		1	579327	12/31/20 13:15	EEN	TAL CHI
TCLP	Leach	1311			578812	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578969	12/29/20 17:27	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 13:45	FXG	TAL CHI
TCLP	Leach	1311			578812	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579008	12/30/20 06:10	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 10:48	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:10	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578082	12/22/20 15:04	LWN	TAL CHI

Client Sample ID: 3972-COV-18-B04 (0-3)

Lab Sample ID: 500-192807-1

Date Collected: 12/18/20 14:30

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 15:25	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578843	12/29/20 15:23	NRJ	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 01:35	EEN	TAL CHI
Total/NA	Prep	7471B			578500	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:58	MJG	TAL CHI
Total/NA	Prep	9010C			578679	12/28/20 13:48	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578735	12/28/20 15:49	PSP	TAL CHI

Client Sample ID: 3972-COV-18-B03 (0-7)

Lab Sample ID: 500-192807-2

Date Collected: 12/18/20 15:10

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579025	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579185	12/30/20 17:37	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 00:15	EEN	TAL CHI
TCLP	Leach	1311			578812	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578969	12/29/20 17:27	BDE	TAL CHI
TCLP	Analysis	6010B		1	579327	12/31/20 13:19	EEN	TAL CHI
TCLP	Leach	1311			578812	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578969	12/29/20 17:27	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 13:47	FXG	TAL CHI
TCLP	Leach	1311			578812	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579008	12/30/20 06:10	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 10:50	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (0-7)

Lab Sample ID: 500-192807-2

Date Collected: 12/18/20 15:10

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	578407	12/23/20 16:13	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578082	12/22/20 15:04	LWN	TAL CHI

Client Sample ID: 3972-COV-18-B03 (0-7)

Lab Sample ID: 500-192807-2

Date Collected: 12/18/20 15:10

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 15:50	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578843	12/29/20 14:32	NRJ	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 01:51	EEN	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579386	12/31/20 18:13	EEN	TAL CHI
Total/NA	Prep	7471B			578500	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 09:59	MJG	TAL CHI
Total/NA	Prep	9010C			578679	12/28/20 13:48	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578735	12/28/20 15:51	PSP	TAL CHI

Client Sample ID: 3972-COV-18-B03 (7-13)

Lab Sample ID: 500-192807-3

Date Collected: 12/18/20 15:15

Matrix: Solid

Date Received: 12/18/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579025	12/29/20 15:27	CMS	TAL CHI
SPLP East	Prep	3010A			579185	12/30/20 17:37	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579387	01/01/21 00:18	EEN	TAL CHI
TCLP	Leach	1311			578812	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578969	12/29/20 17:27	BDE	TAL CHI
TCLP	Analysis	6010B		1	579327	12/31/20 13:22	EEN	TAL CHI
TCLP	Leach	1311			578812	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	3010A			578969	12/29/20 17:27	BDE	TAL CHI
TCLP	Analysis	6020A		1	579155	12/30/20 13:49	FXG	TAL CHI
TCLP	Leach	1311			578812	12/28/20 17:55	CMS	TAL CHI
TCLP	Prep	7470A			579008	12/30/20 06:10	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 10:53	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 16:15	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578082	12/22/20 15:04	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Client Sample ID: 3972-COV-18-B03 (7-13)

Lab Sample ID: 500-192807-3

Date Collected: 12/18/20 15:15

Matrix: Solid

Date Received: 12/18/20 17:50

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578399	12/19/20 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578587	12/28/20 16:15	EMA	TAL CHI
Total/NA	Prep	3541			578747	12/28/20 17:18	ACK	TAL CHI
Total/NA	Analysis	8270D		1	578843	12/29/20 15:49	NRJ	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579233	12/31/20 02:01	EEN	TAL CHI
Total/NA	Prep	3050B			578769	12/28/20 18:57	BDE	TAL CHI
Total/NA	Analysis	6010B		10	579386	12/31/20 18:16	EEN	TAL CHI
Total/NA	Prep	7471B			578500	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 10:01	MJG	TAL CHI
Total/NA	Prep	9010C			578679	12/28/20 13:48	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578735	12/28/20 15:53	PSP	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192807-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192807-1	3972-COV-18-B04 (0-3)	Solid	12/18/20 14:30	12/18/20 17:50	
500-192807-2	3972-COV-18-B03 (0-7)	Solid	12/18/20 15:10	12/18/20 17:50	
500-192807-3	3972-COV-18-B03 (7-13)	Solid	12/18/20 15:15	12/18/20 17:50	

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12

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14

15

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>TERRACON</u> Address: <u>192 Exchange Blvd</u> City/State/Zip: <u>Glendale Heights, IL</u> Phone: <u>630-445-0161</u> Fax: _____ Project Name: <u>11207011 W</u> Site: <u>11207011 W</u> P O #: _____		Project Manager: <u>Rich O'Brien</u> Tel/Email: <u>rich.o'brien@terracon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>12/18/2022</u> Carrier: _____		COC No: _____ 1 of 1 COCs Sampler: <u>D. G. #1</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-192807</u>	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" 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		500-192807 COC 		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>UOC'S</u> <u>SUOC'S</u> <u>Total 23 Inorganics PAH</u> <u>TCL 23 Inorganics</u> <u>SPL 23 Inorganics</u>		Sample Specific Notes: _____			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)		
1 3972-COV-18-B04 (0-3)	12/18/22	1430	G	Soil	6	N	N	X	X
2 3972-COV-18-B03 (0-7)	12/18/22	1510	G	Soil	6	N	N	X	X
3 3972-COV-18-B03 (7-13)	12/18/22	1515	G	Soil	6	N	N	X	X
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" 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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <u>* NO Aluminum</u> <u>* Hold SPL 23 Inorganics Per Terracon instructions</u> <u>0.8 -> 0.6</u>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <u>1600</u>		Cooler Temp. (°C): _____ Obs'd: _____ Corr'd: _____		Therm ID No.: _____			
Relinquished by: <u>Kanw SD</u>		Company: <u>TERRACON</u>		Date/Time: <u>12/18/22</u>		Received by: <u>J. Neal</u>		Company: <u>ETA</u>	
Relinquished by: <u>R. V. M.</u>		Company: <u>ETA</u>		Date/Time: <u>12/18/22</u>		Received by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>Stephanie Hernandez</u>		Company: <u>ETA-CHI</u>	
								Date/Time: <u>12/18/22 1750</u>	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192807-1

Login Number: 192807

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Irving Park (Eastbound) IDOT STA 100+00 to 101+80; Barrington (Northbound) IDOT STA 59+50 to 61+60 (ISGS 3972-COV-19)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Schaumburg

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.00513 Longitude: -88.14454

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 62

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Soil from borings B02 and B03 was sampled adjacent to ISGS Site No 3972-COV-19. See Exhibit 2 and Table 29 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Eurofins TestAmerica, Chicago Report No. J192718-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc.
 Street Address: 192 Exchange Boulevard
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/18/21
Date:



P.E or L.P.G. Seal:

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-19)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-19-B02 (0-7.5)	3972-COV-19-B02 (7.5-15)
		Chicago	MSAs		Sample Depth (feet)	(0-7.5)	(7.5-15)
					Date Collected	12/17/2020	12/17/2020
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0071	<0.0070
Anthracene	mg/kg	0.25	0.4	12000		<0.0066	<0.0065
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0053	<0.0053
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0076	<0.0076
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0085	<0.0084
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	<0.013
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.012	<0.012
Chrysene	mg/kg	1.2	2.7	88		<0.011	0.021
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0073	<0.0072
Fluorene	mg/kg	0.1	0.18	560		<0.0055	<0.0055
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010	<0.010
Phenanthrene	mg/kg	1.3	2.5	210		<0.0055	0.018
Pyrene	mg/kg	1.9	3.0	2300		<0.0078	0.022
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		9.4	6.6
Barium	mg/kg	---	110	1500		97	40
Cadmium	mg/kg	---	0.6	5.2		<0.020	<0.022
Chromium, total	mg/kg	---	16.2	21		22	20
Lead	mg/kg	---	36	107		16	18
Mercury	mg/kg	---	0.06	0.89		0.036	0.019
Selenium	mg/kg	---	0.48	1.3		<0.32	<0.36
Silver	mg/kg	---	0.55	4.4		<0.071	<0.078
Antimony	mg/kg	---	4.0	5		0.57	0.79
Beryllium	mg/kg	---	0.59	22		0.99	0.86
Calcium	mg/kg	---	9,300	---		25000	66000
Cobalt	mg/kg	---	8.9	20		18	14
Copper	mg/kg	---	19.6	2900		24	24
Cyanide	mg/kg	---	0.51	---		<0.14	<0.13
Iron	mg/kg	---	15,900	15000		25000	21000
Magnesium	mg/kg	---	4,820	325000		16000	31000
Manganese	mg/kg	---	636	630		530	350
Nickel	mg/kg	---	18	100		40	36
Potassium	mg/kg	---	1,268	---		2900	4300
Sodium	mg/kg	---	130	---		260	250
Thallium	mg/kg	---	0.32	2.6		0.39	0.49
Vanadium	mg/kg	---	25.2	550		33	21
Zinc	mg/kg	---	95	5100		66	58
pH			6.25	9		8.4	8.0

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-19)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-19-B02 (0-7.5)	3972-COV-19-B02 (7.5-15)
		Chicago	MSAs		Sample Depth (feet)	(0-7.5)	(7.5-15)
					Date Collected	12/17/2020	12/17/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	<0.0075
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.040	0.042
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.59	0.37
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.038	0.0083
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		670	580
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		0.017	0.079
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		46	110
Manganese,TCLP	mg/L	---	---	---		0.21	1.2
Nickel,TCLP	mg/L	---	---	---		<0.010	0.011
Potassium,TCLP	mg/L	---	---	---		2.2	4.4
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.064	0.084

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-19)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 3 of 4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-19-B03 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/17/2020
Semivolatile Organic Analytical Parameters						
Acenaphthene	mg/kg	0.09	0.13	570		0.0082
Anthracene	mg/kg	0.25	0.4	12000		0.015
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.032
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.035
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.037
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.016
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.016
Chrysene	mg/kg	1.2	2.7	88		0.035
Fluoranthene	mg/kg	2.7	4.1	3100		0.066
Fluorene	mg/kg	0.1	0.18	560		0.0086
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.015
Phenanthrene	mg/kg	1.3	2.5	210		0.056
Pyrene	mg/kg	1.9	3.0	2300		0.055
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		5.2
Barium	mg/kg	---	110	1500		30
Cadmium	mg/kg	---	0.6	5.2		<0.021
Chromium, total	mg/kg	---	16.2	21		9.5
Lead	mg/kg	---	36	107		9.7
Mercury	mg/kg	---	0.06	0.89		0.021
Selenium	mg/kg	---	0.48	1.3		<0.34
Silver	mg/kg	---	0.55	4.4		<0.074
Antimony	mg/kg	---	4.0	5		0.49
Beryllium	mg/kg	---	0.59	22		0.40
Calcium	mg/kg	---	9,300	---		110000
Cobalt	mg/kg	---	8.9	20		7.0
Copper	mg/kg	---	19.6	2900		13
Cyanide	mg/kg	---	0.51	---		<0.12
Iron	mg/kg	---	15,900	15000		15000
Magnesium	mg/kg	---	4,820	325000		65000
Manganese	mg/kg	---	636	630		360
Nickel	mg/kg	---	18	100		17
Potassium	mg/kg	---	1,268	---		1700
Sodium	mg/kg	---	130	---		310
Thallium	mg/kg	---	0.32	2.6		0.29
Vanadium	mg/kg	---	25.2	550		15
Zinc	mg/kg	---	95	5100		39
pH			6.25	9		8.4

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-19)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 4 of 4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-19-B03 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/17/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		0.65
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.56
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		480
Cobalt,TCLP	mg/L	---	---	---		0.015
Copper,TCLP	mg/L	---	---	---		0.027
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		89
Manganese,TCLP	mg/L	---	---	---		4.2
Nickel,TCLP	mg/L	---	---	---		0.014
Potassium,TCLP	mg/L	---	---	---		4.9
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.094

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-192718-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
12/30/2020 4:54:55 PM

Richard Wright, Senior Project Manager
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Job ID: 500-192718-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192718-1

Receipt

The samples were received on 12/17/2020 5:30 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.2° C and 1.1° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-578372 and analytical batch 500-578463 had 1 analyte outside control limits: 3,3'-Dichlorobenzidine. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The method blank for preparation batch 500-578212 and analytical batch 500-579158 contained Potassium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B01 (0-3)

Lab Sample ID: 500-192718-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.17		0.040	0.0072	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.020	J	0.040	0.0053	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.42		0.040	0.0067	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	1.8		0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.087	J	0.20	0.073	mg/Kg	1	✳	8270D	Total/NA
Carbazole	0.20		0.20	0.10	mg/Kg	1	✳	8270D	Total/NA
Chrysene	2.0		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.075	J	0.20	0.047	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.17		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.081	0.0074	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.012	J	0.040	0.0061	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	2.2		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene - DL	2.3		0.20	0.039	mg/Kg	5	✳	8270D	Total/NA
Benzo[b]fluoranthene - DL	3.1		0.20	0.043	mg/Kg	5	✳	8270D	Total/NA
Benzo[g,h,i]perylene - DL	1.6		0.20	0.064	mg/Kg	5	✳	8270D	Total/NA
Benzo[k]fluoranthene - DL	1.1		0.20	0.059	mg/Kg	5	✳	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.43		0.20	0.039	mg/Kg	5	✳	8270D	Total/NA
Fluoranthene - DL	5.0		0.20	0.037	mg/Kg	5	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	1.3		0.20	0.052	mg/Kg	5	✳	8270D	Total/NA
Pyrene - DL	3.6		0.20	0.040	mg/Kg	5	✳	8270D	Total/NA
Antimony	0.52	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.3		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	86		0.61	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.65		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.15		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.31	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		12	6.4	mg/Kg	1	✳	6010B	Total/NA
Lead	49		1.5	0.71	mg/Kg	5	✳	6010B	Total/NA
Magnesium	28000		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	54000		61	10	mg/Kg	5	✳	6010B	Total/NA
Manganese	490		0.61	0.089	mg/Kg	1	✳	6010B	Total/NA
Nickel	23		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Vanadium	27		0.31	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	83		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300	B	31	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	350	B	61	9.1	mg/Kg	1	✳	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.064		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.095		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	8.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.035		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.22	J B	0.26	0.13	mg/Kg	1	✳	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (0-7.5)

Lab Sample ID: 500-192718-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.4		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	97		0.55	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.99		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Chromium	22		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	18		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	25000		11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	16000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Calcium	25000		11	1.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	530		0.55	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	40		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.39	J	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	33		0.27	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	66		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Potassium	2900	B	27	9.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	260	B	55	8.1	mg/Kg	1	✳	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	670		25	2.5	mg/L	5		6010B	TCLP
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	46		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.064	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-19-B02 (7.5-15)

Lab Sample ID: 500-192718-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.021	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.018	J	0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.022	J	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.79	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.6		0.60	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	40		0.60	0.069	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.86		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.30	0.079	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	21000		12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	18		1.5	0.70	mg/Kg	5	✳	6010B	Total/NA
Magnesium	31000		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	66000		60	10	mg/Kg	5	✳	6010B	Total/NA
Manganese	350		0.60	0.088	mg/Kg	1	✳	6010B	Total/NA
Nickel	36		0.60	0.18	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.49	J	0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.30	0.071	mg/Kg	1	✳	6010B	Total/NA
Zinc	58		1.2	0.53	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (7.5-15) (Continued)

Lab Sample ID: 500-192718-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4300	B	30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	250	B	60	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	580		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.079		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0083		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.084	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019	J	0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-19-B03 (0-3)

Lab Sample ID: 500-192718-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0082	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.015	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.032	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.035	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.037		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.016	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.066		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0086	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.015	J	0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.056		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.055		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.2		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.5		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		57	30	mg/Kg	5	☼	6010B	Total/NA
Lead	9.7		1.4	0.66	mg/Kg	5	☼	6010B	Total/NA
Magnesium	65000		29	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	110000		57	9.7	mg/Kg	5	☼	6010B	Total/NA
Manganese	360		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.57	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	310	B	57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B03 (0-3) (Continued)

Lab Sample ID: 500-192718-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	89		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.094	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.65		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0058	mg/Kg	1	⊛	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B01 (0-3)

Lab Sample ID: 500-192718-1

Date Collected: 12/17/20 11:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0072		0.017	0.0072	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Benzene	<0.00042		0.0017	0.00042	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Bromoform	<0.00048		0.0017	0.00048	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Bromomethane	<0.0016		0.0041	0.0016	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Carbon disulfide	<0.00086		0.0041	0.00086	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Carbon tetrachloride	<0.00048		0.0017	0.00048	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Chlorobenzene	<0.00061		0.0017	0.00061	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Chloroethane	<0.0012		0.0041	0.0012	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Chloromethane	<0.0017		0.0041	0.0017	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
cis-1,2-Dichloroethene	<0.00046		0.0017	0.00046	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
cis-1,3-Dichloropropene	<0.00050		0.0017	0.00050	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Dibromochloromethane	<0.00054		0.0017	0.00054	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
1,1-Dichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
1,1-Dichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
1,2-Dichloropropene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
1,3-Dichloropropene, Total	<0.00058		0.0017	0.00058	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Ethylbenzene	<0.00079		0.0017	0.00079	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Styrene	<0.00050		0.0017	0.00050	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
1,1,2,2-Tetrachloroethane	<0.00053		0.0017	0.00053	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Tetrachloroethene	<0.00056		0.0017	0.00056	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
trans-1,2-Dichloroethene	<0.00073		0.0017	0.00073	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
trans-1,3-Dichloropropene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
1,1,2-Trichloroethane	<0.00071		0.0017	0.00071	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Trichloroethene	<0.00056		0.0017	0.00056	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Vinyl chloride	<0.00073		0.0017	0.00073	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1
Xylenes, Total	<0.00053		0.0033	0.00053	mg/Kg	☼	12/18/20 17:43	12/23/20 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	12/18/20 17:43	12/23/20 18:48	1
Dibromofluoromethane	99		75 - 126	12/18/20 17:43	12/23/20 18:48	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	12/18/20 17:43	12/23/20 18:48	1
Toluene-d8 (Surr)	93		75 - 124	12/18/20 17:43	12/23/20 18:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.17		0.040	0.0072	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Acenaphthylene	0.020	J	0.040	0.0053	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Anthracene	0.42		0.040	0.0067	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Benzo[a]anthracene	1.8		0.040	0.0054	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B01 (0-3)

Lab Sample ID: 500-192718-1

Date Collected: 12/17/20 11:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Bis(2-ethylhexyl) phthalate	0.087	J	0.20	0.073	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Carbazole	0.20		0.20	0.10	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Chrysene	2.0		0.040	0.011	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Dibenzofuran	0.075	J	0.20	0.047	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
3,3'-Dichlorobenzidine	<0.056	*	0.20	0.056	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2,4-Dinitrophenol	<0.70		0.81	0.70	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Fluorene	0.17		0.040	0.0056	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2-Methylnaphthalene	0.010	J	0.081	0.0074	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Naphthalene	0.012	J	0.040	0.0061	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Phenanthrene	2.2		0.040	0.0056	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	12/23/20 16:09	12/24/20 18:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B01 (0-3)

Lab Sample ID: 500-192718-1

Date Collected: 12/17/20 11:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☆	12/23/20 16:09	12/24/20 18:40	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☆	12/23/20 16:09	12/24/20 18:40	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☆	12/23/20 16:09	12/24/20 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145	12/23/20 16:09	12/24/20 18:40	1
2-Fluorophenol	76		31 - 166	12/23/20 16:09	12/24/20 18:40	1
Nitrobenzene-d5	78		37 - 147	12/23/20 16:09	12/24/20 18:40	1
Phenol-d5	77		30 - 153	12/23/20 16:09	12/24/20 18:40	1
Terphenyl-d14	84		42 - 157	12/23/20 16:09	12/24/20 18:40	1
2,4,6-Tribromophenol	81		31 - 143	12/23/20 16:09	12/24/20 18:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	2.3		0.20	0.039	mg/Kg	☆	12/23/20 16:09	12/28/20 23:55	5
Benzo[b]fluoranthene	3.1		0.20	0.043	mg/Kg	☆	12/23/20 16:09	12/28/20 23:55	5
Benzo[g,h,i]perylene	1.6		0.20	0.064	mg/Kg	☆	12/23/20 16:09	12/28/20 23:55	5
Benzo[k]fluoranthene	1.1		0.20	0.059	mg/Kg	☆	12/23/20 16:09	12/28/20 23:55	5
Dibenz(a,h)anthracene	0.43		0.20	0.039	mg/Kg	☆	12/23/20 16:09	12/28/20 23:55	5
Fluoranthene	5.0		0.20	0.037	mg/Kg	☆	12/23/20 16:09	12/28/20 23:55	5
Indeno[1,2,3-cd]pyrene	1.3		0.20	0.052	mg/Kg	☆	12/23/20 16:09	12/28/20 23:55	5
Pyrene	3.6		0.20	0.040	mg/Kg	☆	12/23/20 16:09	12/28/20 23:55	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.24	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Arsenic	7.3		0.61	0.21	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Barium	86		0.61	0.070	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Beryllium	0.65		0.24	0.057	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Cadmium	0.15		0.12	0.022	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Chromium	18		0.61	0.30	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Cobalt	11		0.31	0.080	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Copper	20		0.61	0.17	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Iron	19000		12	6.4	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Lead	49		1.5	0.71	mg/Kg	☆	12/23/20 07:37	12/30/20 11:26	5
Magnesium	28000		6.1	3.0	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Calcium	54000		61	10	mg/Kg	☆	12/23/20 07:37	12/30/20 11:26	5
Manganese	490		0.61	0.089	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Nickel	23		0.61	0.18	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Selenium	<0.36		0.61	0.36	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Silver	<0.079		0.31	0.079	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Thallium	<0.31		0.61	0.31	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Vanadium	27		0.31	0.072	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Zinc	83		1.2	0.54	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Potassium	2300	B	31	11	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1
Sodium	350	B	61	9.1	mg/Kg	☆	12/23/20 07:37	12/30/20 09:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:55	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B01 (0-3)

Lab Sample ID: 500-192718-1

Date Collected: 12/17/20 11:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 81.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:55	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:55	1
Calcium	290		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 22:55	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:55	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:55	1
Copper	0.064		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:55	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:55	1
Lead	0.011		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 22:55	1
Magnesium	130		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:55	1
Manganese	0.095		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:55	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:55	1
Potassium	8.8		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:55	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:55	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:55	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:55	1
Zinc	0.18	J	0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:55	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15		0.0075	0.0075	mg/L		12/29/20 06:44	12/29/20 20:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 15:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 15:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 08:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0062	mg/Kg	☆	12/24/20 11:35	12/28/20 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.22	J B	0.26	0.13	mg/Kg	☆	12/23/20 12:32	12/23/20 14:27	1
pH	8.2		0.2	0.2	SU			12/22/20 21:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (0-7.5)

Lab Sample ID: 500-192718-2

Date Collected: 12/17/20 10:00

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0070		0.016	0.0070	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	✱	12/18/20 17:43	12/23/20 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	12/18/20 17:43	12/23/20 19:13	1
Dibromofluoromethane	99		75 - 126	12/18/20 17:43	12/23/20 19:13	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/18/20 17:43	12/23/20 19:13	1
Toluene-d8 (Surr)	94		75 - 124	12/18/20 17:43	12/23/20 19:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	✱	12/23/20 16:09	12/24/20 14:10	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	✱	12/23/20 16:09	12/24/20 14:10	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	✱	12/23/20 16:09	12/24/20 14:10	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	✱	12/23/20 16:09	12/24/20 14:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (0-7.5)

Lab Sample ID: 500-192718-2

Date Collected: 12/17/20 10:00

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0076		0.039	0.0076	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
3,3'-Dichlorobenzidine	<0.055	*	0.20	0.055	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Hexachlorobenzene	<0.0091		0.080	0.0091	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	12/23/20 16:09	12/24/20 14:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (0-7.5)

Lab Sample ID: 500-192718-2

Date Collected: 12/17/20 10:00

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
Pentachlorophenol	<0.63		0.80	0.63	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
Phenol	<0.088		0.20	0.088	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
Pyrene	<0.0078		0.039	0.0078	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	✳	12/23/20 16:09	12/24/20 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		43 - 145				12/23/20 16:09	12/24/20 14:10	1
2-Fluorophenol	64		31 - 166				12/23/20 16:09	12/24/20 14:10	1
Nitrobenzene-d5	68		37 - 147				12/23/20 16:09	12/24/20 14:10	1
Phenol-d5	66		30 - 153				12/23/20 16:09	12/24/20 14:10	1
Terphenyl-d14	61		42 - 157				12/23/20 16:09	12/24/20 14:10	1
2,4,6-Tribromophenol	58		31 - 143				12/23/20 16:09	12/24/20 14:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.1	0.21	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Arsenic	9.4		0.55	0.19	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Barium	97		0.55	0.062	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Beryllium	0.99		0.22	0.051	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Cadmium	<0.020		0.11	0.020	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Chromium	22		0.55	0.27	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Cobalt	18		0.27	0.072	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Copper	24		0.55	0.15	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Iron	25000		11	5.7	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Lead	16		0.27	0.13	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Magnesium	16000		5.5	2.7	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Calcium	25000		11	1.9	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Manganese	530		0.55	0.079	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Nickel	40		0.55	0.16	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Selenium	<0.32		0.55	0.32	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Silver	<0.071		0.27	0.071	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Thallium	0.39	J	0.55	0.27	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Vanadium	33		0.27	0.065	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Zinc	66		1.1	0.48	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Potassium	2900	B	27	9.7	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1
Sodium	260	B	55	8.1	mg/Kg	✳	12/23/20 07:37	12/30/20 09:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:58	1
Barium	0.59		0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:58	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (0-7.5)

Lab Sample ID: 500-192718-2

Date Collected: 12/17/20 10:00

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 83.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	670		25	2.5	mg/L		12/29/20 06:42	12/30/20 12:49	5
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:58	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:58	1
Copper	0.017	J	0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:58	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:58	1
Lead	<0.038		0.038	0.038	mg/L		12/29/20 06:42	12/30/20 12:49	5
Magnesium	46		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:58	1
Manganese	0.21		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:58	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:58	1
Potassium	2.2	J	2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:58	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:58	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:58	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:58	1
Zinc	0.064	J	0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.040		0.025	0.010	mg/L		12/29/20 06:44	12/29/20 21:00	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 15:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 15:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 08:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0064	mg/Kg	✱	12/24/20 11:35	12/28/20 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	✱	12/23/20 12:32	12/23/20 14:28	1
pH	8.4		0.2	0.2	SU			12/22/20 21:41	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (7.5-15)

Lab Sample ID: 500-192718-3

Date Collected: 12/17/20 10:05

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0067		0.015	0.0067	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Bromoform	<0.00045		0.0015	0.00045	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Carbon disulfide	<0.00080		0.0039	0.00080	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Carbon tetrachloride	<0.00045		0.0015	0.00045	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Chlorobenzene	<0.00057		0.0015	0.00057	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Chloroethane	<0.0011		0.0039	0.0011	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Chloroform	<0.00053		0.0015	0.00053	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Chloromethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
1,1-Dichloroethane	<0.00053		0.0015	0.00053	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
1,1-Dichloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
1,2-Dichloropropene	<0.00040		0.0015	0.00040	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
1,3-Dichloropropene, Total	<0.00054		0.0015	0.00054	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Ethylbenzene	<0.00074		0.0015	0.00074	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0039	0.0011	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Styrene	<0.00047		0.0015	0.00047	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Tetrachloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Toluene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
trans-1,2-Dichloroethene	<0.00068		0.0015	0.00068	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
trans-1,3-Dichloropropene	<0.00054		0.0015	0.00054	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
1,1,1-Trichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
1,1,2-Trichloroethane	<0.00066		0.0015	0.00066	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Trichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Vinyl acetate	<0.0013		0.0039	0.0013	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Vinyl chloride	<0.00068		0.0015	0.00068	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1
Xylenes, Total	<0.00049		0.0031	0.00049	mg/Kg	☼	12/18/20 17:43	12/23/20 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	12/18/20 17:43	12/23/20 19:39	1
Dibromofluoromethane	104		75 - 126	12/18/20 17:43	12/23/20 19:39	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	12/18/20 17:43	12/23/20 19:39	1
Toluene-d8 (Surr)	95		75 - 124	12/18/20 17:43	12/23/20 19:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (7.5-15)

Lab Sample ID: 500-192718-3

Date Collected: 12/17/20 10:05

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0076		0.039	0.0076	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Benzo[b]fluoranthene	<0.0084		0.039	0.0084	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Chrysene	0.021	J	0.039	0.011	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
3,3'-Dichlorobenzidine	<0.055	*	0.20	0.055	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Fluoranthene	<0.0072		0.039	0.0072	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (7.5-15)

Lab Sample ID: 500-192718-3

Date Collected: 12/17/20 10:05

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Phenanthrene	0.018	J	0.039	0.0054	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Pyrene	0.022	J	0.039	0.0078	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	12/23/20 16:09	12/24/20 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		43 - 145				12/23/20 16:09	12/24/20 17:01	1
2-Fluorophenol	72		31 - 166				12/23/20 16:09	12/24/20 17:01	1
Nitrobenzene-d5	76		37 - 147				12/23/20 16:09	12/24/20 17:01	1
Phenol-d5	74		30 - 153				12/23/20 16:09	12/24/20 17:01	1
Terphenyl-d14	67		42 - 157				12/23/20 16:09	12/24/20 17:01	1
2,4,6-Tribromophenol	72		31 - 143				12/23/20 16:09	12/24/20 17:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.79	J	1.2	0.24	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Arsenic	6.6		0.60	0.21	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Barium	40		0.60	0.069	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Beryllium	0.86		0.24	0.057	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Cadmium	<0.022		0.12	0.022	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Chromium	20		0.60	0.30	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Cobalt	14		0.30	0.079	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Copper	24		0.60	0.17	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Iron	21000		12	6.3	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Lead	18		1.5	0.70	mg/Kg	☼	12/23/20 07:37	12/30/20 11:29	5
Magnesium	31000		6.0	3.0	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Calcium	66000		60	10	mg/Kg	☼	12/23/20 07:37	12/30/20 11:29	5
Manganese	350		0.60	0.088	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Nickel	36		0.60	0.18	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Selenium	<0.36		0.60	0.36	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Silver	<0.078		0.30	0.078	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Thallium	0.49	J	0.60	0.30	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Vanadium	21		0.30	0.071	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Zinc	58		1.2	0.53	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Potassium	4300	B	30	11	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1
Sodium	250	B	60	9.0	mg/Kg	☼	12/23/20 07:37	12/30/20 09:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 23:02	1
Barium	0.37	J	0.50	0.050	mg/L		12/29/20 06:42	12/29/20 23:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 23:02	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 23:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (7.5-15)

Lab Sample ID: 500-192718-3

Date Collected: 12/17/20 10:05

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 82.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	580		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 23:02	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:02	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:02	1
Copper	0.079		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:02	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 23:02	1
Lead	0.0083		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 23:02	1
Magnesium	110		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 23:02	1
Manganese	1.2		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:02	1
Nickel	0.011	J	0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:02	1
Potassium	4.4		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 23:02	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 23:02	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:02	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:02	1
Zinc	0.084	J	0.50	0.020	mg/L		12/29/20 06:42	12/29/20 23:02	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:44	12/29/20 21:04	1
Manganese	0.042		0.025	0.010	mg/L		12/29/20 06:44	12/29/20 21:04	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 15:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 15:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 08:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.0066	mg/Kg	✱	12/24/20 11:35	12/28/20 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.27	0.13	mg/Kg	✱	12/23/20 12:32	12/23/20 14:30	1
pH	8.0		0.2	0.2	SU			12/22/20 21:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B03 (0-3)

Lab Sample ID: 500-192718-4

Date Collected: 12/17/20 10:30

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0065		0.015	0.0065	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Bromomethane	<0.0014		0.0038	0.0014	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Carbon disulfide	<0.00078		0.0038	0.00078	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Carbon tetrachloride	<0.00044		0.0015	0.00044	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Chloroethane	<0.0011		0.0038	0.0011	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Chloroform	<0.00052		0.0015	0.00052	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Chloromethane	<0.0015		0.0038	0.0015	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Dibromochloromethane	<0.00049		0.0015	0.00049	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
1,1-Dichloroethene	<0.00052		0.0015	0.00052	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
1,2-Dichloropropene	<0.00039		0.0015	0.00039	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
1,3-Dichloropropene, Total	<0.00053		0.0015	0.00053	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Ethylbenzene	<0.00072		0.0015	0.00072	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Methyl tert-butyl ether	<0.00044		0.0015	0.00044	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Tetrachloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
trans-1,2-Dichloroethene	<0.00067		0.0015	0.00067	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
trans-1,3-Dichloropropene	<0.00053		0.0015	0.00053	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
1,1,2-Trichloroethane	<0.00064		0.0015	0.00064	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Trichloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Vinyl chloride	<0.00066		0.0015	0.00066	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1
Xylenes, Total	<0.00048		0.0030	0.00048	mg/Kg	✳	12/18/20 17:43	12/23/20 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	12/18/20 17:43	12/23/20 20:04	1
Dibromofluoromethane	97		75 - 126	12/18/20 17:43	12/23/20 20:04	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/18/20 17:43	12/23/20 20:04	1
Toluene-d8 (Surr)	93		75 - 124	12/18/20 17:43	12/23/20 20:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0082	J	0.037	0.0068	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
Acenaphthylene	<0.0050		0.037	0.0050	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
Anthracene	0.015	J	0.037	0.0063	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
Benzo[a]anthracene	0.032	J	0.037	0.0051	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B03 (0-3)

Lab Sample ID: 500-192718-4

Date Collected: 12/17/20 10:30

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.035	J	0.037	0.0073	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Benzo[b]fluoranthene	0.037		0.037	0.0081	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Benzo[g,h,i]perylene	0.016	J	0.037	0.012	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Benzo[k]fluoranthene	0.016	J	0.037	0.011	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Chrysene	0.035	J	0.037	0.010	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Dibenz(a,h)anthracene	<0.0073		0.037	0.0073	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
3,3'-Dichlorobenzidine	<0.053	*	0.19	0.053	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Fluoranthene	0.066		0.037	0.0070	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Fluorene	0.0086	J	0.037	0.0053	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.037	0.0098	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	12/23/20 16:09	12/24/20 13:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B03 (0-3)

Lab Sample ID: 500-192718-4

Date Collected: 12/17/20 10:30

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
Phenanthrene	0.056		0.037	0.0052	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
Phenol	<0.084		0.19	0.084	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
Pyrene	0.055		0.037	0.0075	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	✳	12/23/20 16:09	12/24/20 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		43 - 145				12/23/20 16:09	12/24/20 13:45	1
2-Fluorophenol	65		31 - 166				12/23/20 16:09	12/24/20 13:45	1
Nitrobenzene-d5	64		37 - 147				12/23/20 16:09	12/24/20 13:45	1
Phenol-d5	63		30 - 153				12/23/20 16:09	12/24/20 13:45	1
Terphenyl-d14	61		42 - 157				12/23/20 16:09	12/24/20 13:45	1
2,4,6-Tribromophenol	67		31 - 143				12/23/20 16:09	12/24/20 13:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.1	0.22	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Arsenic	5.2		0.57	0.20	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Barium	30		0.57	0.065	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Beryllium	0.40		0.23	0.053	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Cadmium	<0.021		0.11	0.021	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Chromium	9.5		0.57	0.28	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Cobalt	7.0		0.29	0.075	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Copper	13		0.57	0.16	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Iron	15000		57	30	mg/Kg	✳	12/23/20 07:37	12/30/20 11:32	5
Lead	9.7		1.4	0.66	mg/Kg	✳	12/23/20 07:37	12/30/20 11:32	5
Magnesium	65000		29	14	mg/Kg	✳	12/23/20 07:37	12/30/20 11:32	5
Calcium	110000		57	9.7	mg/Kg	✳	12/23/20 07:37	12/30/20 11:32	5
Manganese	360		0.57	0.083	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Nickel	17		0.57	0.17	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Selenium	<0.34		0.57	0.34	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Silver	<0.074		0.29	0.074	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Thallium	0.29	J	0.57	0.29	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Vanadium	15		0.29	0.068	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Zinc	39		1.1	0.50	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Potassium	1700	B	29	10	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1
Sodium	310	B	57	8.5	mg/Kg	✳	12/23/20 07:37	12/30/20 09:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 23:12	1
Barium	0.56		0.50	0.050	mg/L		12/29/20 06:42	12/29/20 23:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 23:12	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 23:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B03 (0-3)

Lab Sample ID: 500-192718-4

Date Collected: 12/17/20 10:30

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 84.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	480		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 23:12	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:12	1
Cobalt	0.015	J	0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:12	1
Copper	0.027		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:12	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 23:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 23:12	1
Magnesium	89		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 23:12	1
Manganese	4.2		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:12	1
Nickel	0.014	J	0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:12	1
Potassium	4.9		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 23:12	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 23:12	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:12	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 23:12	1
Zinc	0.094	J	0.50	0.020	mg/L		12/29/20 06:42	12/29/20 23:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.65		0.025	0.010	mg/L		12/29/20 06:44	12/29/20 21:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 15:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 15:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 08:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0058	mg/Kg	☼	12/24/20 11:35	12/28/20 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.25	0.12	mg/Kg	☼	12/23/20 12:32	12/23/20 14:32	1
pH	8.4		0.2	0.2	SU			12/22/20 21:46	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

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)
500-192718-1	3972-COV-19-B01 (0-3)	102	99	87	93
500-192718-2	3972-COV-19-B02 (0-7.5)	103	99	91	94
500-192718-3	3972-COV-19-B02 (7.5-15)	103	104	95	95
500-192718-4	3972-COV-19-B03 (0-3)	99	97	91	93
LCS 500-578187/26	Lab Control Sample	96	89	80	97
LCSD 500-578187/5	Lab Control Sample Dup	93	87	76	97
MB 500-578187/7	Method Blank	100	95	85	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-192718-1	3972-COV-19-B01 (0-3)	80	76	78	77	84	81
500-192718-2	3972-COV-19-B02 (0-7.5)	63	64	68	66	61	58
500-192718-3	3972-COV-19-B02 (7.5-15)	72	72	76	74	67	72
500-192718-4	3972-COV-19-B03 (0-3)	62	65	64	63	61	67
LCS 500-578372/2-A	Lab Control Sample	100	98	105	96	93	76
MB 500-578372/1-A	Method Blank	101	94	102	100	97	78

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-578187/7
Matrix: Solid
Analysis Batch: 578187

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/23/20 12:48	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/23/20 12:48	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/23/20 12:48	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/23/20 12:48	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/23/20 12:48	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/23/20 12:48	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/23/20 12:48	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/23/20 12:48	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/23/20 12:48	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/23/20 12:48	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/23/20 12:48	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/23/20 12:48	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/23/20 12:48	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/23/20 12:48	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/23/20 12:48	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/23/20 12:48	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/23/20 12:48	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/23/20 12:48	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/23/20 12:48	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/23/20 12:48	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/23/20 12:48	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/23/20 12:48	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/23/20 12:48	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/23/20 12:48	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/23/20 12:48	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/23/20 12:48	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/23/20 12:48	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/23/20 12:48	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/23/20 12:48	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/23/20 12:48	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/23/20 12:48	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/23/20 12:48	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/23/20 12:48	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/23/20 12:48	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/23/20 12:48	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		75 - 131		12/23/20 12:48	1
Dibromofluoromethane	95		75 - 126		12/23/20 12:48	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134		12/23/20 12:48	1
Toluene-d8 (Surr)	95		75 - 124		12/23/20 12:48	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-578187/26

Matrix: Solid

Analysis Batch: 578187

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	0.0287		mg/Kg		57	40 - 150
Benzene	0.0500	0.0512		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0454		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0437		mg/Kg		87	68 - 136
Bromomethane	0.0500	0.0381		mg/Kg		76	70 - 130
2-Butanone (MEK)	0.0500	0.0254		mg/Kg		51	47 - 138
Carbon disulfide	0.0500	0.0521		mg/Kg		104	70 - 129
Carbon tetrachloride	0.0500	0.0533		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0531		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0508		mg/Kg		102	75 - 125
Chloroform	0.0500	0.0473		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0539		mg/Kg		108	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0560		mg/Kg		112	70 - 125
1,2-Dichloroethane	0.0500	0.0437		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 120
1,2-Dichloropropane	0.0500	0.0538		mg/Kg		108	70 - 125
Ethylbenzene	0.0500	0.0547		mg/Kg		109	61 - 136
2-Hexanone	0.0500	0.0256		mg/Kg		51	48 - 146
Methylene Chloride	0.0500	0.0449		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0258		mg/Kg		52	50 - 148
Methyl tert-butyl ether	0.0500	0.0357		mg/Kg		71	50 - 140
Styrene	0.0500	0.0522		mg/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0420		mg/Kg		84	70 - 122
Tetrachloroethene	0.0500	0.0523		mg/Kg		105	70 - 124
Toluene	0.0500	0.0538		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0515		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0424		mg/Kg		85	70 - 125
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128
1,1,2-Trichloroethane	0.0500	0.0446		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0537		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0271		mg/Kg		54	40 - 153
Vinyl chloride	0.0500	0.0518		mg/Kg		104	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	89		75 - 126
1,2-Dichloroethane-d4 (Surr)	80		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-578187/5
Matrix: Solid
Analysis Batch: 578187

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	0.0335		mg/Kg		67	40 - 150	15	30
Benzene	0.0500	0.0558		mg/Kg		112	70 - 125	9	30
Bromodichloromethane	0.0500	0.0503		mg/Kg		101	67 - 129	10	30
Bromoform	0.0500	0.0484		mg/Kg		97	68 - 136	10	30
Bromomethane	0.0500	0.0437		mg/Kg		87	70 - 130	14	30
2-Butanone (MEK)	0.0500	0.0264		mg/Kg		53	47 - 138	4	30
Carbon disulfide	0.0500	0.0589		mg/Kg		118	70 - 129	12	30
Carbon tetrachloride	0.0500	0.0592		mg/Kg		118	75 - 125	11	30
Chlorobenzene	0.0500	0.0581		mg/Kg		116	50 - 150	9	30
Chloroethane	0.0500	0.0560		mg/Kg		112	75 - 125	10	30
Chloroform	0.0500	0.0524		mg/Kg		105	57 - 135	10	30
Chloromethane	0.0500	0.0617		mg/Kg		123	70 - 125	14	30
cis-1,2-Dichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125	11	30
cis-1,3-Dichloropropene	0.0500	0.0491		mg/Kg		98	70 - 125	10	30
Dibromochloromethane	0.0500	0.0524		mg/Kg		105	69 - 125	7	30
1,1-Dichloroethane	0.0500	0.0610		mg/Kg		122	70 - 125	9	30
1,2-Dichloroethane	0.0500	0.0475		mg/Kg		95	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0571		mg/Kg		114	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0590		mg/Kg		118	70 - 125	9	30
Ethylbenzene	0.0500	0.0601		mg/Kg		120	61 - 136	9	30
2-Hexanone	0.0500	0.0305		mg/Kg		61	48 - 146	17	30
Methylene Chloride	0.0500	0.0501		mg/Kg		100	70 - 126	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0295		mg/Kg		59	50 - 148	13	30
Methyl tert-butyl ether	0.0500	0.0414		mg/Kg		83	50 - 140	15	30
Styrene	0.0500	0.0570		mg/Kg		114	70 - 125	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.0470		mg/Kg		94	70 - 122	11	30
Tetrachloroethene	0.0500	0.0566		mg/Kg		113	70 - 124	8	30
Toluene	0.0500	0.0588		mg/Kg		118	70 - 125	9	30
trans-1,2-Dichloroethene	0.0500	0.0568		mg/Kg		114	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125	8	30
1,1,1-Trichloroethane	0.0500	0.0552		mg/Kg		110	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125	11	30
Trichloroethene	0.0500	0.0589		mg/Kg		118	70 - 125	9	30
Vinyl acetate	0.0500	0.0265		mg/Kg		53	40 - 153	2	30
Vinyl chloride	0.0500	0.0584		mg/Kg		117	70 - 125	12	30
Xylenes, Total	0.100	0.113		mg/Kg		113	53 - 147	10	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-578372/1-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/23/20 16:09	12/24/20 11:42	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-578372/1-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/23/20 16:09	12/24/20 11:42	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/23/20 16:09	12/24/20 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		43 - 145	12/23/20 16:09	12/24/20 11:42	1
2-Fluorophenol	94		31 - 166	12/23/20 16:09	12/24/20 11:42	1
Nitrobenzene-d5	102		37 - 147	12/23/20 16:09	12/24/20 11:42	1
Phenol-d5	100		30 - 153	12/23/20 16:09	12/24/20 11:42	1
Terphenyl-d14	97		42 - 157	12/23/20 16:09	12/24/20 11:42	1
2,4,6-Tribromophenol	78		31 - 143	12/23/20 16:09	12/24/20 11:42	1

Lab Sample ID: LCS 500-578372/2-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.24		mg/Kg		93	65 - 124
Acenaphthylene	1.33	1.20		mg/Kg		90	68 - 120
Anthracene	1.33	1.25		mg/Kg		93	70 - 114
Benzo[a]anthracene	1.33	1.19		mg/Kg		89	67 - 122
Benzo[a]pyrene	1.33	1.39		mg/Kg		104	65 - 133
Benzo[b]fluoranthene	1.33	1.37		mg/Kg		103	69 - 129
Benzo[g,h,i]perylene	1.33	1.48		mg/Kg		111	72 - 131
Benzo[k]fluoranthene	1.33	1.40		mg/Kg		105	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.29		mg/Kg		97	60 - 112
Bis(2-chloroethyl)ether	1.33	1.21		mg/Kg		91	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		100	72 - 131
4-Bromophenyl phenyl ether	1.33	1.35		mg/Kg		101	68 - 118
Butyl benzyl phthalate	1.33	1.27		mg/Kg		95	71 - 129
Carbazole	1.33	1.34		mg/Kg		101	65 - 142
4-Chloroaniline	1.33	0.794		mg/Kg		60	30 - 150
4-Chloro-3-methylphenol	1.33	1.31		mg/Kg		99	65 - 122
2-Chloronaphthalene	1.33	1.27		mg/Kg		95	69 - 114
2-Chlorophenol	1.33	1.20		mg/Kg		90	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-578372/2-A

Matrix: Solid

Analysis Batch: 578463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		91	62 - 119
Chrysene	1.33	1.24		mg/Kg		93	63 - 120
Dibenz(a,h)anthracene	1.33	1.46		mg/Kg		109	64 - 131
Dibenzofuran	1.33	1.26		mg/Kg		94	66 - 115
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.14		mg/Kg		85	65 - 124
1,4-Dichlorobenzene	1.33	1.14		mg/Kg		86	61 - 110
3,3'-Dichlorobenzidine	1.33	0.446	*	mg/Kg		33	35 - 128
2,4-Dichlorophenol	1.33	1.21		mg/Kg		91	58 - 120
Diethyl phthalate	1.33	1.33		mg/Kg		99	58 - 120
2,4-Dimethylphenol	1.33	0.998		mg/Kg		75	60 - 110
Dimethyl phthalate	1.33	1.27		mg/Kg		95	69 - 116
Di-n-butyl phthalate	1.33	1.36		mg/Kg		102	65 - 120
4,6-Dinitro-2-methylphenol	2.67	2.31		mg/Kg		87	10 - 110
2,4-Dinitrophenol	2.67	1.85		mg/Kg		69	10 - 100
2,4-Dinitrotoluene	1.33	1.30		mg/Kg		98	69 - 124
2,6-Dinitrotoluene	1.33	1.31		mg/Kg		98	70 - 123
Di-n-octyl phthalate	1.33	1.43		mg/Kg		108	68 - 134
Fluoranthene	1.33	1.28		mg/Kg		96	62 - 120
Fluorene	1.33	1.16		mg/Kg		87	62 - 120
Hexachlorobenzene	1.33	1.29		mg/Kg		97	63 - 124
Hexachlorobutadiene	1.33	1.27		mg/Kg		95	56 - 120
Hexachlorocyclopentadiene	1.33	0.401	J	mg/Kg		30	10 - 133
Hexachloroethane	1.33	1.24		mg/Kg		93	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.48		mg/Kg		111	68 - 130
Isophorone	1.33	1.31		mg/Kg		99	55 - 110
2-Methylnaphthalene	1.33	1.25		mg/Kg		94	69 - 112
2-Methylphenol	1.33	1.10		mg/Kg		83	60 - 120
3 & 4 Methylphenol	1.33	1.28		mg/Kg		96	57 - 120
Naphthalene	1.33	1.20		mg/Kg		90	63 - 110
2-Nitroaniline	1.33	1.57		mg/Kg		118	57 - 124
3-Nitroaniline	1.33	0.765		mg/Kg		57	40 - 122
4-Nitroaniline	1.33	0.879		mg/Kg		66	60 - 160
Nitrobenzene	1.33	1.32		mg/Kg		99	60 - 116
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
4-Nitrophenol	2.67	3.02		mg/Kg		113	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.37		mg/Kg		103	56 - 118
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.42		mg/Kg		107	40 - 124
Pentachlorophenol	2.67	2.00		mg/Kg		75	13 - 112
Phenanthrene	1.33	1.28		mg/Kg		96	62 - 120
Phenol	1.33	1.32		mg/Kg		99	56 - 122
Pyrene	1.33	1.18		mg/Kg		89	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.35		mg/Kg		101	50 - 120
2,4,6-Trichlorophenol	1.33	1.18		mg/Kg		89	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-578372/2-A
Matrix: Solid
Analysis Batch: 578463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578372

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	100		43 - 145
2-Fluorophenol	98		31 - 166
Nitrobenzene-d5	105		37 - 147
Phenol-d5	96		30 - 153
Terphenyl-d14	93		42 - 157
2,4,6-Tribromophenol	76		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578212/1-A
Matrix: Solid
Analysis Batch: 579158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578212

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Antimony	<0.39		2.0	0.39	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Barium	<0.11		1.0	0.11	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Chromium	<0.50		1.0	0.50	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Copper	<0.28		1.0	0.28	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Iron	<10		20	10	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Lead	<0.23		0.50	0.23	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Magnesium	<5.0		10	5.0	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Calcium	<3.4		20	3.4	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Manganese	<0.15		1.0	0.15	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Nickel	<0.29		1.0	0.29	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Selenium	<0.59		1.0	0.59	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Silver	<0.13		0.50	0.13	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Thallium	<0.50		1.0	0.50	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Zinc	<0.88		2.0	0.88	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Potassium	62.2		50	18	mg/Kg		12/23/20 07:37	12/30/20 08:36		1
Sodium	17.2	J	100	15	mg/Kg		12/23/20 07:37	12/30/20 08:36		1

Lab Sample ID: LCS 500-578212/2-A
Matrix: Solid
Analysis Batch: 579158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578212

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	46.9		mg/Kg		94		80 - 120
Arsenic	10.0	10.4		mg/Kg		104		80 - 120
Barium	200	212		mg/Kg		106		80 - 120
Beryllium	5.00	5.26		mg/Kg		105		80 - 120
Cadmium	5.00	4.92		mg/Kg		98		80 - 120
Chromium	20.0	19.3		mg/Kg		96		80 - 120
Cobalt	50.0	50.8		mg/Kg		102		80 - 120
Copper	25.0	25.1		mg/Kg		101		80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-578212/2-A
Matrix: Solid
Analysis Batch: 579158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	106		mg/Kg		106	80 - 120
Lead	10.0	9.70		mg/Kg		97	80 - 120
Magnesium	1000	988		mg/Kg		99	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Manganese	50.0	50.2		mg/Kg		100	80 - 120
Nickel	50.0	50.5		mg/Kg		101	80 - 120
Selenium	10.0	9.50		mg/Kg		95	80 - 120
Silver	5.00	4.57		mg/Kg		91	80 - 120
Thallium	10.0	10.3		mg/Kg		103	80 - 120
Vanadium	50.0	49.8		mg/Kg		100	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120
Potassium	1000	1040		mg/Kg		104	80 - 120
Sodium	1000	1050		mg/Kg		105	80 - 120

Lab Sample ID: LCS 500-578797/2-A
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.498	J	mg/L		100	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Cadmium	0.0500	0.0517		mg/L		103	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.500	0.536		mg/L		107	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Iron	1.00	0.990		mg/L		99	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	9.37		mg/L		94	80 - 120
Calcium	10.0	9.99		mg/L		100	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.537		mg/L		107	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0537		mg/L		107	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120
Zinc	0.500	0.594		mg/L		119	80 - 120
Potassium	10.0	11.3		mg/L		113	80 - 120

Lab Sample ID: LCS 500-578798/2-A
Matrix: Solid
Analysis Batch: 579009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.100		mg/L		100	80 - 120
Manganese	0.500	0.518		mg/L		104	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-578634/1-B
Matrix: Solid
Analysis Batch: 579010

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578797

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Barium	<0.050		0.50	0.050	mg/L		12/29/20 06:42	12/29/20 22:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/20 06:42	12/29/20 22:31	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Chromium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Cobalt	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Copper	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Iron	<0.20		0.40	0.20	mg/L		12/29/20 06:42	12/29/20 22:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:42	12/29/20 22:31	1
Magnesium	<0.50		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1
Calcium	<0.50		5.0	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Nickel	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Selenium	<0.020		0.050	0.020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Silver	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Vanadium	<0.010		0.025	0.010	mg/L		12/29/20 06:42	12/29/20 22:31	1
Zinc	<0.020		0.50	0.020	mg/L		12/29/20 06:42	12/29/20 22:31	1
Potassium	<0.50		2.5	0.50	mg/L		12/29/20 06:42	12/29/20 22:31	1

Lab Sample ID: LB 500-578638/2-B
Matrix: Solid
Analysis Batch: 579009

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 578798

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/20 06:44	12/29/20 20:25	1
Manganese	<0.010		0.025	0.010	mg/L		12/29/20 06:44	12/29/20 20:25	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-578797/2-A
Matrix: Solid
Analysis Batch: 578960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578797

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.484		mg/L		97	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LB 500-578634/1-B
Matrix: Solid
Analysis Batch: 578960

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 578797

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/29/20 06:42	12/29/20 14:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/29/20 06:42	12/29/20 14:49	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-578876/12-A
 Matrix: Solid
 Analysis Batch: 579109

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:40	1

Lab Sample ID: LCS 500-578876/14-A
 Matrix: Solid
 Analysis Batch: 579109

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00207		mg/L		103	80 - 120

Lab Sample ID: LB 500-578634/1-C
 Matrix: Solid
 Analysis Batch: 579109

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 578876

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/20 09:20	12/30/20 07:42	1

Lab Sample ID: 500-192718-4 MS
 Matrix: Solid
 Analysis Batch: 579109

Client Sample ID: 3972-COV-19-B03 (0-3)
 Prep Type: TCLP
 Prep Batch: 578876

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 500-192718-4 DU
 Matrix: Solid
 Analysis Batch: 579109

Client Sample ID: 3972-COV-19-B03 (0-3)
 Prep Type: TCLP
 Prep Batch: 578876

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-578419/12-A
 Matrix: Solid
 Analysis Batch: 578666

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/24/20 11:35	12/28/20 07:14	1

Lab Sample ID: LCS 500-578419/13-A
 Matrix: Solid
 Analysis Batch: 578666

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.185		mg/Kg		111	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578315/1-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.122	J	0.24	0.12	mg/Kg		12/23/20 12:32	12/23/20 14:04	1

Lab Sample ID: HLCS 500-578315/2-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.8		mg/Kg		106	90 - 110

Lab Sample ID: LCS 500-578315/3-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.73		mg/Kg		114	85 - 115

Lab Sample ID: LLCS 500-578315/4-A
Matrix: Solid
Analysis Batch: 578364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578315

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.49		mg/Kg		124	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

GC/MS VOA

Prep Batch: 578173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	5035	
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	5035	
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	5035	
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 578187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	8260B	578173
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	8260B	578173
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	8260B	578173
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	8260B	578173
MB 500-578187/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-578187/26	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-578187/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 578372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1 - DL	3972-COV-19-B01 (0-3)	Total/NA	Solid	3541	
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	3541	
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	3541	
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	3541	
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	3541	
MB 500-578372/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-578372/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 578463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	8270D	578372
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	8270D	578372
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	8270D	578372
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	8270D	578372
MB 500-578372/1-A	Method Blank	Total/NA	Solid	8270D	578372
LCS 500-578372/2-A	Lab Control Sample	Total/NA	Solid	8270D	578372

Analysis Batch: 578759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1 - DL	3972-COV-19-B01 (0-3)	Total/NA	Solid	8270D	578372

Metals

Prep Batch: 578212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	3050B	
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	3050B	
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	3050B	
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	3050B	
MB 500-578212/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578212/2-A	Lab Control Sample	Total/NA	Solid	3050B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Metals

Prep Batch: 578419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	7471B	
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	7471B	
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	7471B	
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	7471B	
MB 500-578419/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-578419/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 578634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	TCLP	Solid	1311	
500-192718-2	3972-COV-19-B02 (0-7.5)	TCLP	Solid	1311	
500-192718-3	3972-COV-19-B02 (7.5-15)	TCLP	Solid	1311	
500-192718-4	3972-COV-19-B03 (0-3)	TCLP	Solid	1311	
LB 500-578634/1-B	Method Blank	TCLP	Solid	1311	
LB 500-578634/1-C	Method Blank	TCLP	Solid	1311	
500-192718-4 MS	3972-COV-19-B03 (0-3)	TCLP	Solid	1311	
500-192718-4 DU	3972-COV-19-B03 (0-3)	TCLP	Solid	1311	

Leach Batch: 578638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	SPLP East	Solid	1312	
500-192718-2	3972-COV-19-B02 (0-7.5)	SPLP East	Solid	1312	
500-192718-3	3972-COV-19-B02 (7.5-15)	SPLP East	Solid	1312	
500-192718-4	3972-COV-19-B03 (0-3)	SPLP East	Solid	1312	
LB 500-578638/2-B	Method Blank	SPLP East	Solid	1312	

Analysis Batch: 578666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	7471B	578419
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	7471B	578419
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	7471B	578419
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	7471B	578419
MB 500-578419/12-A	Method Blank	Total/NA	Solid	7471B	578419
LCS 500-578419/13-A	Lab Control Sample	Total/NA	Solid	7471B	578419

Prep Batch: 578797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	TCLP	Solid	3010A	578634
500-192718-2	3972-COV-19-B02 (0-7.5)	TCLP	Solid	3010A	578634
500-192718-3	3972-COV-19-B02 (7.5-15)	TCLP	Solid	3010A	578634
500-192718-4	3972-COV-19-B03 (0-3)	TCLP	Solid	3010A	578634
LB 500-578634/1-B	Method Blank	TCLP	Solid	3010A	578634
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 578798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	SPLP East	Solid	3010A	578638
500-192718-2	3972-COV-19-B02 (0-7.5)	SPLP East	Solid	3010A	578638
500-192718-3	3972-COV-19-B02 (7.5-15)	SPLP East	Solid	3010A	578638
500-192718-4	3972-COV-19-B03 (0-3)	SPLP East	Solid	3010A	578638
LB 500-578638/2-B	Method Blank	SPLP East	Solid	3010A	578638

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Metals (Continued)

Prep Batch: 578798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-578798/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 578876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	TCLP	Solid	7470A	578634
500-192718-2	3972-COV-19-B02 (0-7.5)	TCLP	Solid	7470A	578634
500-192718-3	3972-COV-19-B02 (7.5-15)	TCLP	Solid	7470A	578634
500-192718-4	3972-COV-19-B03 (0-3)	TCLP	Solid	7470A	578634
LB 500-578634/1-C	Method Blank	TCLP	Solid	7470A	578634
MB 500-578876/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-578876/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-192718-4 MS	3972-COV-19-B03 (0-3)	TCLP	Solid	7470A	578634
500-192718-4 DU	3972-COV-19-B03 (0-3)	TCLP	Solid	7470A	578634

Analysis Batch: 578960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	TCLP	Solid	6020A	578797
500-192718-2	3972-COV-19-B02 (0-7.5)	TCLP	Solid	6020A	578797
500-192718-3	3972-COV-19-B02 (7.5-15)	TCLP	Solid	6020A	578797
500-192718-4	3972-COV-19-B03 (0-3)	TCLP	Solid	6020A	578797
LB 500-578634/1-B	Method Blank	TCLP	Solid	6020A	578797
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	6020A	578797

Analysis Batch: 579009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	SPLP East	Solid	6010B	578798
500-192718-2	3972-COV-19-B02 (0-7.5)	SPLP East	Solid	6010B	578798
500-192718-3	3972-COV-19-B02 (7.5-15)	SPLP East	Solid	6010B	578798
500-192718-4	3972-COV-19-B03 (0-3)	SPLP East	Solid	6010B	578798
LB 500-578638/2-B	Method Blank	SPLP East	Solid	6010B	578798
LCS 500-578798/2-A	Lab Control Sample	Total/NA	Solid	6010B	578798

Analysis Batch: 579010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	TCLP	Solid	6010B	578797
500-192718-2	3972-COV-19-B02 (0-7.5)	TCLP	Solid	6010B	578797
500-192718-3	3972-COV-19-B02 (7.5-15)	TCLP	Solid	6010B	578797
500-192718-4	3972-COV-19-B03 (0-3)	TCLP	Solid	6010B	578797
LB 500-578634/1-B	Method Blank	TCLP	Solid	6010B	578797
LCS 500-578797/2-A	Lab Control Sample	Total/NA	Solid	6010B	578797

Analysis Batch: 579109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	TCLP	Solid	7470A	578876
500-192718-2	3972-COV-19-B02 (0-7.5)	TCLP	Solid	7470A	578876
500-192718-3	3972-COV-19-B02 (7.5-15)	TCLP	Solid	7470A	578876
500-192718-4	3972-COV-19-B03 (0-3)	TCLP	Solid	7470A	578876
LB 500-578634/1-C	Method Blank	TCLP	Solid	7470A	578876
MB 500-578876/12-A	Method Blank	Total/NA	Solid	7470A	578876
LCS 500-578876/14-A	Lab Control Sample	Total/NA	Solid	7470A	578876
500-192718-4 MS	3972-COV-19-B03 (0-3)	TCLP	Solid	7470A	578876

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Metals (Continued)

Analysis Batch: 579109 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-4 DU	3972-COV-19-B03 (0-3)	TCLP	Solid	7470A	578876

Analysis Batch: 579158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	6010B	578212
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	6010B	578212
500-192718-2	3972-COV-19-B02 (0-7.5)	TCLP	Solid	6010B	578797
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	6010B	578212
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	6010B	578212
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	6010B	578212
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	6010B	578212
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	6010B	578212
MB 500-578212/1-A	Method Blank	Total/NA	Solid	6010B	578212
LCS 500-578212/2-A	Lab Control Sample	Total/NA	Solid	6010B	578212

General Chemistry

Analysis Batch: 578009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	Moisture	
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	Moisture	
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	Moisture	
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 578223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	9045D	
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	9045D	
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	9045D	
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	9045D	
LCS 500-578223/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578223/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	9010C	
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	9010C	
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	9010C	
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	9010C	
MB 500-578315/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578315/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578315/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578315/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192718-1	3972-COV-19-B01 (0-3)	Total/NA	Solid	9012B	578315
500-192718-2	3972-COV-19-B02 (0-7.5)	Total/NA	Solid	9012B	578315
500-192718-3	3972-COV-19-B02 (7.5-15)	Total/NA	Solid	9012B	578315
500-192718-4	3972-COV-19-B03 (0-3)	Total/NA	Solid	9012B	578315
MB 500-578315/1-A	Method Blank	Total/NA	Solid	9012B	578315

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

General Chemistry (Continued)

Analysis Batch: 578364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 500-578315/2-A	Lab Control Sample	Total/NA	Solid	9012B	578315
LCS 500-578315/3-A	Lab Control Sample	Total/NA	Solid	9012B	578315
LLCS 500-578315/4-A	Lab Control Sample	Total/NA	Solid	9012B	578315

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B01 (0-3)

Lab Sample ID: 500-192718-1

Date Collected: 12/17/20 11:40

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			578638	12/24/20 16:34	OAJ	TAL CHI
SPLP East	Prep	3010A			578798	12/29/20 06:44	LMN	TAL CHI
SPLP East	Analysis	6010B		1	579009	12/29/20 20:57	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6010B		1	579010	12/29/20 22:55	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6020A		1	578960	12/29/20 15:03	FXG	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	7470A			578876	12/29/20 09:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 08:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578223	12/22/20 21:39	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	578009	12/22/20 10:25	LWN	TAL CHI

Client Sample ID: 3972-COV-19-B01 (0-3)

Lab Sample ID: 500-192718-1

Date Collected: 12/17/20 11:40

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578173	12/18/20 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578187	12/23/20 18:48	JDD	TAL CHI
Total/NA	Prep	3541	DL		578372	12/23/20 16:09	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	5	578759	12/28/20 23:55	SS	TAL CHI
Total/NA	Prep	3541			578372	12/23/20 16:09	JP1	TAL CHI
Total/NA	Analysis	8270D		1	578463	12/24/20 18:40	SS	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579158	12/30/20 09:39	EEN	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579158	12/30/20 11:26	EEN	TAL CHI
Total/NA	Prep	7471B			578419	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 07:54	MJG	TAL CHI
Total/NA	Prep	9010C			578315	12/23/20 12:32	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578364	12/23/20 14:27	PSP	TAL CHI

Client Sample ID: 3972-COV-19-B02 (0-7.5)

Lab Sample ID: 500-192718-2

Date Collected: 12/17/20 10:00

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			578638	12/24/20 16:34	OAJ	TAL CHI
SPLP East	Prep	3010A			578798	12/29/20 06:44	LMN	TAL CHI
SPLP East	Analysis	6010B		1	579009	12/29/20 21:00	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (0-7.5)

Lab Sample ID: 500-192718-2

Date Collected: 12/17/20 10:00

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6010B		1	579010	12/29/20 22:58	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6010B		5	579158	12/30/20 12:49	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6020A		1	578960	12/29/20 15:05	FXG	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	7470A			578876	12/29/20 09:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 08:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578223	12/22/20 21:41	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	578009	12/22/20 10:25	LWN	TAL CHI

Client Sample ID: 3972-COV-19-B02 (0-7.5)

Lab Sample ID: 500-192718-2

Date Collected: 12/17/20 10:00

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578173	12/18/20 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578187	12/23/20 19:13	JDD	TAL CHI
Total/NA	Prep	3541			578372	12/23/20 16:09	JP1	TAL CHI
Total/NA	Analysis	8270D		1	578463	12/24/20 14:10	SS	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579158	12/30/20 09:42	EEN	TAL CHI
Total/NA	Prep	7471B			578419	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 07:56	MJG	TAL CHI
Total/NA	Prep	9010C			578315	12/23/20 12:32	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578364	12/23/20 14:28	PSP	TAL CHI

Client Sample ID: 3972-COV-19-B02 (7.5-15)

Lab Sample ID: 500-192718-3

Date Collected: 12/17/20 10:05

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			578638	12/24/20 16:34	OAJ	TAL CHI
SPLP East	Prep	3010A			578798	12/29/20 06:44	LMN	TAL CHI
SPLP East	Analysis	6010B		1	579009	12/29/20 21:04	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6010B		1	579010	12/29/20 23:02	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6020A		1	578960	12/29/20 15:07	FXG	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B02 (7.5-15)

Lab Sample ID: 500-192718-3

Date Collected: 12/17/20 10:05

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	7470A			578876	12/29/20 09:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 08:05	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578223	12/22/20 21:44	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	578009	12/22/20 10:25	LWN	TAL CHI

Client Sample ID: 3972-COV-19-B02 (7.5-15)

Lab Sample ID: 500-192718-3

Date Collected: 12/17/20 10:05

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578173	12/18/20 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578187	12/23/20 19:39	JDD	TAL CHI
Total/NA	Prep	3541			578372	12/23/20 16:09	JP1	TAL CHI
Total/NA	Analysis	8270D		1	578463	12/24/20 17:01	SS	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579158	12/30/20 09:45	EEN	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579158	12/30/20 11:29	EEN	TAL CHI
Total/NA	Prep	7471B			578419	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 08:01	MJG	TAL CHI
Total/NA	Prep	9010C			578315	12/23/20 12:32	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578364	12/23/20 14:30	PSP	TAL CHI

Client Sample ID: 3972-COV-19-B03 (0-3)

Lab Sample ID: 500-192718-4

Date Collected: 12/17/20 10:30

Matrix: Solid

Date Received: 12/17/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			578638	12/24/20 16:34	OAJ	TAL CHI
SPLP East	Prep	3010A			578798	12/29/20 06:44	LMN	TAL CHI
SPLP East	Analysis	6010B		1	579009	12/29/20 21:07	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6010B		1	579010	12/29/20 23:12	EEN	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	3010A			578797	12/29/20 06:42	LMN	TAL CHI
TCLP	Analysis	6020A		1	578960	12/29/20 15:13	FXG	TAL CHI
TCLP	Leach	1311			578634	12/24/20 16:34	OAJ	TAL CHI
TCLP	Prep	7470A			578876	12/29/20 09:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	579109	12/30/20 08:07	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578223	12/22/20 21:46	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	578009	12/22/20 10:25	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Client Sample ID: 3972-COV-19-B03 (0-3)

Lab Sample ID: 500-192718-4

Date Collected: 12/17/20 10:30

Matrix: Solid

Date Received: 12/17/20 17:30

Percent Solids: 84.9

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	5035			578173	12/18/20 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	578187	12/23/20 20:04	JDD	TAL CHI
Total/NA	Prep	3541			578372	12/23/20 16:09	JP1	TAL CHI
Total/NA	Analysis	8270D		1	578463	12/24/20 13:45	SS	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579158	12/30/20 09:55	EEN	TAL CHI
Total/NA	Prep	3050B			578212	12/23/20 07:37	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579158	12/30/20 11:32	EEN	TAL CHI
Total/NA	Prep	7471B			578419	12/24/20 11:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	578666	12/28/20 08:03	MJG	TAL CHI
Total/NA	Prep	9010C			578315	12/23/20 12:32	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578364	12/23/20 14:32	PSP	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192718-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192718-1	3972-COV-19-B01 (0-3)	Solid	12/17/20 11:40	12/17/20 17:30	
500-192718-2	3972-COV-19-B02 (0-7.5)	Solid	12/17/20 10:00	12/17/20 17:30	
500-192718-3	3972-COV-19-B02 (7.5-15)	Solid	12/17/20 10:05	12/17/20 17:30	
500-192718-4	3972-COV-19-B03 (0-3)	Solid	12/17/20 10:30	12/17/20 17:30	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192718-1

Login Number: 192718

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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	1.1,-0.2 SAMPLES NOT FROZEN
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Barrington Rd (Southbound) IDOT STA 57+45 to 58+60 (ISGS 3972-COV-20)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Hanover

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.00445 Longitude: -88.14489
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 59

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil from boring B01 was sampled adjacent to ISGS Site No 3972-COV-20. See Exhibits 2 and 3 and Table 31 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Eurofins TestAmerica, Chicago Report No. J192916-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc.
 Street Address: 192 Exchange Boulevard
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/18/21
Date:



P.E or L.P.G. Seal:

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-20)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-20-B01 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/22/2020
Volatile Organic Analytical Parameters						
Acetone	mg/kg	---	---	25		0.012
Semivolatile Organic Analytical Parameters						
Anthracene	mg/kg	0.25	0.4	12000		0.0088
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.043
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.060
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.086
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.040
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.029
Chrysene	mg/kg	1.2	2.7	88		0.058
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.0092
Fluoranthene	mg/kg	2.7	4.1	3100		0.11
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.031
Phenanthrene	mg/kg	1.3	2.5	210		0.042
Pyrene	mg/kg	1.9	3.0	2300		0.078
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		8.7
Barium	mg/kg	---	110	1500		79
Cadmium	mg/kg	---	0.6	5.2		0.034
Chromium, total	mg/kg	---	16.2	21		19
Lead	mg/kg	---	36	107		34
Mercury	mg/kg	---	0.06	0.89		0.037
Selenium	mg/kg	---	0.48	1.3		<0.34
Silver	mg/kg	---	0.55	4.4		<0.075
Antimony	mg/kg	---	4.0	5		0.55
Beryllium	mg/kg	---	0.59	22		0.71
Calcium	mg/kg	---	9,300	---		33000
Cobalt	mg/kg	---	8.9	20		13
Copper	mg/kg	---	19.6	2900		22
Cyanide	mg/kg	---	0.51	---		0.19
Iron	mg/kg	---	15,900	15000		22000
Magnesium	mg/kg	---	4,820	325000		19000
Manganese	mg/kg	---	636	630		440
Nickel	mg/kg	---	18	100		29
Potassium	mg/kg	---	1,268	---		2000
Sodium	mg/kg	---	130	---		510
Thallium	mg/kg	---	0.32	2.6		0.41
Vanadium	mg/kg	---	25.2	550		29
Zinc	mg/kg	---	95	5100		71
pH			6.25	9		8.2

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-20)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-20-B01 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/22/2020
Inorganic Analytical Parameters (SPLP)						
Antimony, SPLP	mg/L	---	---	---		--
Arsenic, SPLP	mg/L	---	---	---		--
Barium, SPLP	mg/L	---	---	---		--
Beryllium, SPLP	mg/L	---	---	---		--
Cadmium, SPLP	mg/L	---	---	---		--
Calcium, SPLP	mg/L	---	---	---		--
Chromium, SPLP	mg/L	---	---	---		--
Cobalt, SPLP	mg/L	---	---	---		--
Copper, SPLP	mg/L	---	---	---		--
Iron, SPLP	mg/L	---	---	---		--
Lead, SPLP	mg/L	---	---	---		0.090
Magnesium, SPLP	mg/L	---	---	---		--
Manganese, SPLP	mg/L	---	---	---		0.26
Mercury, SPLP	mg/L	---	---	---		--
Nickel, SPLP	mg/L	---	---	---		--
Potassium, SPLP	mg/L	---	---	---		--
Selenium, SPLP	mg/L	---	---	---		--
Silver, SPLP	mg/L	---	---	---		--
Sodium, SPLP	mg/L	---	---	---		--
Thallium, SPLP	mg/L	---	---	---		--
Vanadium, SPLP	mg/L	---	---	---		--
Zinc, SPLP	mg/L	---	---	---		--
Cyanide, SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic, TCLP	mg/L	---	---	---		<0.010
Barium, TCLP	mg/L	---	---	---		0.67
Cadmium, TCLP	mg/L	---	---	---		0.0025
Chromium, TCLP	mg/L	---	---	---		<0.010
Lead, TCLP	mg/L	---	---	---		0.011
Mercury, TCLP	mg/L	---	---	---		<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.020
Silver, TCLP	mg/L	---	---	---		<0.010
Antimony, TCLP	mg/L	---	---	---		<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040
Calcium, TCLP	mg/L	---	---	---		380
Cobalt, TCLP	mg/L	---	---	---		0.023
Copper, TCLP	mg/L	---	---	---		0.011
Cyanide, TCLP	mg/L	---	---	---		--
Iron, TCLP	mg/L	---	---	---		<0.20
Magnesium, TCLP	mg/L	---	---	---		67
Manganese, TCLP	mg/L	---	---	---		7.4
Nickel, TCLP	mg/L	---	---	---		0.025
Potassium, TCLP	mg/L	---	---	---		3.4
Sodium, TCLP	mg/L	---	---	---		--
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.010
Zinc, TCLP	mg/L	---	---	---		0.049

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-192916-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
1/8/2021 3:44:39 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Job ID: 500-192916-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192916-1

Receipt

The samples were received on 12/22/2020 5:22 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010B: The continuing calibration verification (CCV) at line 63 was outside the control limits for Zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 3972-COV-20-B02 (7-13) (500-192916-3) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: 3972-COV-20-B02 (0-7) (500-192916-2) and 3972-COV-20-B02 (7-13) (500-192916-3). Elevated reporting limits (RLs) are provided.

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-579346 and 500-579532 and analytical batch 500-579995 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

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: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B01 (0-3)

Lab Sample ID: 500-192916-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.017	0.0075	mg/Kg	1	✳	8260B	Total/NA
Anthracene	0.0088	J	0.041	0.0069	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.043		0.041	0.0055	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.060		0.041	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.086		0.041	0.0089	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.040	J	0.041	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.029	J	0.041	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.058		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.0092	J	0.041	0.0079	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.11		0.041	0.0076	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.042		0.041	0.0057	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.078		0.041	0.0082	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.55	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.7		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	79		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.71		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.034	J B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	22000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	34		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	19000	B	5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	33000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	440		0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.41	J	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	29		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	71		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	510		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	380		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.049	J B **	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Lead	0.090		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.037		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.19	J	0.27	0.14	mg/Kg	1	✳	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (0-7)

Lab Sample ID: 500-192916-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.017	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.37	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.3		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	44		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.71		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		11	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	20		1.4	0.66	mg/Kg	5	✳	6010B	Total/NA
Magnesium	33000	B	5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	42000	B	57	9.7	mg/Kg	5	✳	6010B	Total/NA
Manganese	430		0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	36		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.43	J	0.57	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	23		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	61		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Potassium	3000		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	820		57	8.5	mg/Kg	1	✳	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0044	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1400		50	5.0	mg/L	10		6010B	TCLP
Cobalt	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0089		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	470		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.5	B	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.041	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Nickel	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	9.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-20-B02 (7-13)

Lab Sample ID: 500-192916-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.0099	J	0.039	0.0079	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.52	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.0		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	33		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.76		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	27		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	27000		57	30	mg/Kg	5	✳	6010B	Total/NA
Lead	17		1.4	0.66	mg/Kg	5	✳	6010B	Total/NA
Magnesium	43000	B	29	14	mg/Kg	5	✳	6010B	Total/NA
Calcium	77000	B	57	9.7	mg/Kg	5	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (7-13) (Continued)

Lab Sample ID: 500-192916-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	340		0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	38		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.49	J	0.57	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	23		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	67		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Potassium	3700		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	330		57	8.5	mg/Kg	1	✳	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	97		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B01 (0-3)

Lab Sample ID: 500-192916-1

Date Collected: 12/22/20 13:15

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012	J	0.017	0.0075	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Carbon disulfide	<0.00089		0.0043	0.00089	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Chlorobenzene	<0.00063		0.0017	0.00063	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
1,3-Dichloropropene, Total	<0.00060		0.0017	0.00060	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
trans-1,3-Dichloropropene	<0.00060		0.0017	0.00060	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	✳	12/22/20 18:05	12/30/20 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	12/22/20 18:05	12/30/20 15:59	1
Dibromofluoromethane	99		75 - 126	12/22/20 18:05	12/30/20 15:59	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/22/20 18:05	12/30/20 15:59	1
Toluene-d8 (Surr)	92		75 - 124	12/22/20 18:05	12/30/20 15:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.041	0.0074	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
Anthracene	0.0088	J	0.041	0.0069	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
Benzo[a]anthracene	0.043		0.041	0.0055	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B01 (0-3)

Lab Sample ID: 500-192916-1

Date Collected: 12/22/20 13:15

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.060		0.041	0.0080	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Benzo[b]fluoranthene	0.086		0.041	0.0089	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Benzo[g,h,i]perylene	0.040	J	0.041	0.013	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Benzo[k]fluoranthene	0.029	J	0.041	0.012	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Chrysene	0.058		0.041	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Dibenz(a,h)anthracene	0.0092	J	0.041	0.0079	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2,4-Dichlorophenol	<0.098		0.41	0.098	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2,4-Dinitrophenol	<0.72		0.83	0.72	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Fluoranthene	0.11		0.041	0.0076	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Hexachlorobenzene	<0.0095		0.083	0.0095	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Indeno[1,2,3-cd]pyrene	0.031	J	0.041	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2-Methylnaphthalene	<0.0076		0.083	0.0076	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1
2-Nitrophenol	<0.097		0.41	0.097	mg/Kg	☼	12/30/20 07:24	12/30/20 19:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B01 (0-3)

Lab Sample ID: 500-192916-1

Date Collected: 12/22/20 13:15

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
N-Nitrosodi-n-propylamine	<0.050		0.083	0.050	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
Phenanthrene	0.042		0.041	0.0057	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
Phenol	<0.091		0.21	0.091	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
Pyrene	0.078		0.041	0.0082	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	✳	12/30/20 07:24	12/30/20 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145				12/30/20 07:24	12/30/20 19:42	1
2-Fluorophenol	96		31 - 166				12/30/20 07:24	12/30/20 19:42	1
Nitrobenzene-d5	83		37 - 147				12/30/20 07:24	12/30/20 19:42	1
Phenol-d5	81		30 - 153				12/30/20 07:24	12/30/20 19:42	1
Terphenyl-d14	77		42 - 157				12/30/20 07:24	12/30/20 19:42	1
2,4,6-Tribromophenol	87		31 - 143				12/30/20 07:24	12/30/20 19:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.23	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Arsenic	8.7		0.58	0.20	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Barium	79		0.58	0.066	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Beryllium	0.71		0.23	0.054	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Cadmium	0.034	J B	0.12	0.021	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Chromium	19		0.58	0.29	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Cobalt	13		0.29	0.076	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Copper	22		0.58	0.16	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Iron	22000		12	6.1	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Lead	34		0.29	0.13	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Magnesium	19000	B	5.8	2.9	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Calcium	33000	B	12	2.0	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Manganese	440		0.58	0.084	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Nickel	29		0.58	0.17	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Selenium	<0.34		0.58	0.34	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Silver	<0.075		0.29	0.075	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Thallium	0.41	J	0.58	0.29	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Vanadium	29		0.29	0.069	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Zinc	71		1.2	0.51	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Potassium	2000		29	10	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1
Sodium	510		58	8.6	mg/Kg	✳	12/29/20 19:05	01/04/21 19:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:40	1
Barium	0.67		0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:19	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B01 (0-3)

Lab Sample ID: 500-192916-1

Date Collected: 12/22/20 13:15

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:19	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:40	1
Cobalt	0.023	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:40	1
Copper	0.011	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:40	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:40	1
Lead	0.011		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:15	1
Magnesium	67		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:19	1
Manganese	7.4		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:19	1
Nickel	0.025		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:40	1
Potassium	3.4		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:19	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:15	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:40	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:40	1
Zinc	0.049	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.26		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 02:12	1
Lead	0.090		0.0075	0.0075	mg/L		01/04/21 17:58	01/07/21 15:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.018	0.0061	mg/Kg	✱	12/30/20 13:05	12/31/20 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19	J	0.27	0.14	mg/Kg	✱	12/29/20 09:49	12/29/20 11:33	1
pH	8.2		0.2	0.2	SU			12/23/20 17:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (0-7)

Lab Sample ID: 500-192916-2

Date Collected: 12/22/20 12:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0067		0.015	0.0067	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Bromoform	<0.00045		0.0015	0.00045	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Bromomethane	<0.0015		0.0038	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Carbon disulfide	<0.00080		0.0038	0.00080	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Carbon tetrachloride	<0.00045		0.0015	0.00045	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Chlorobenzene	<0.00057		0.0015	0.00057	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Chloroethane	<0.0011		0.0038	0.0011	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Chloroform	<0.00053		0.0015	0.00053	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Chloromethane	<0.0015		0.0038	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
1,1-Dichloroethane	<0.00053		0.0015	0.00053	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
1,1-Dichloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
1,2-Dichloropropene	<0.00040		0.0015	0.00040	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
1,3-Dichloropropene, Total	<0.00054		0.0015	0.00054	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Ethylbenzene	<0.00073		0.0015	0.00073	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Styrene	<0.00046		0.0015	0.00046	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Tetrachloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Toluene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
trans-1,2-Dichloroethene	<0.00068		0.0015	0.00068	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
trans-1,3-Dichloropropene	<0.00054		0.0015	0.00054	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
1,1,1-Trichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
1,1,2-Trichloroethane	<0.00066		0.0015	0.00066	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Trichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Vinyl chloride	<0.00068		0.0015	0.00068	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1
Xylenes, Total	<0.00049		0.0031	0.00049	mg/Kg	☼	12/22/20 18:05	12/30/20 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	12/22/20 18:05	12/30/20 16:25	1
Dibromofluoromethane	98		75 - 126	12/22/20 18:05	12/30/20 16:25	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	12/22/20 18:05	12/30/20 16:25	1
Toluene-d8 (Surr)	93		75 - 124	12/22/20 18:05	12/30/20 16:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Benzo[a]anthracene	<0.0050		0.037	0.0050	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (0-7)

Lab Sample ID: 500-192916-2

Date Collected: 12/22/20 12:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0073		0.037	0.0073	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Fluoranthene	<0.0070		0.037	0.0070	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.037	0.0097	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (0-7)

Lab Sample ID: 500-192916-2

Date Collected: 12/22/20 12:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Phenanthrene	0.017	J	0.037	0.0052	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Pyrene	<0.0075		0.037	0.0075	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		43 - 145				12/30/20 07:24	12/30/20 23:30	1
2-Fluorophenol	85		31 - 166				12/30/20 07:24	12/30/20 23:30	1
Nitrobenzene-d5	78		37 - 147				12/30/20 07:24	12/30/20 23:30	1
Phenol-d5	75		30 - 153				12/30/20 07:24	12/30/20 23:30	1
Terphenyl-d14	90		42 - 157				12/30/20 07:24	12/30/20 23:30	1
2,4,6-Tribromophenol	65		31 - 143				12/30/20 07:24	12/30/20 23:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.1	0.22	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Arsenic	8.3		0.57	0.20	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Barium	44		0.57	0.065	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Beryllium	0.71		0.23	0.054	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Cadmium	<0.021		0.11	0.021	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Chromium	18		0.57	0.28	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Cobalt	15		0.29	0.075	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Copper	24		0.57	0.16	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Iron	20000		11	6.0	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Lead	20		1.4	0.66	mg/Kg	☼	12/29/20 19:05	01/06/21 16:35	5
Magnesium	33000	B	5.7	2.8	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Calcium	42000	B	57	9.7	mg/Kg	☼	12/29/20 19:05	01/05/21 23:10	5
Manganese	430		0.57	0.083	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Nickel	36		0.57	0.17	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Selenium	<0.34		0.57	0.34	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Silver	<0.074		0.29	0.074	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Thallium	0.43	J	0.57	0.29	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Vanadium	23		0.29	0.068	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Zinc	61		1.1	0.50	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Potassium	3000		29	10	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1
Sodium	820		57	8.5	mg/Kg	☼	12/29/20 19:05	01/04/21 19:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 23:11	1
Barium	0.54		0.50	0.050	mg/L		01/04/21 17:53	01/06/21 01:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 01:48	1
Cadmium	0.0044	J	0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 23:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (0-7)

Lab Sample ID: 500-192916-2

Date Collected: 12/22/20 12:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 85.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1400		50	5.0	mg/L		01/04/21 17:53	01/06/21 23:15	10
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:11	1
Cobalt	0.14		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:11	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:11	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 23:11	1
Lead	0.0089		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 19:52	1
Magnesium	470		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:48	1
Manganese	6.5 B		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 01:48	1
Nickel	0.13		0.025	0.010	mg/L		01/04/21 17:53	01/07/21 19:52	1
Potassium	1.5 J		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:48	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 19:52	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:11	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:11	1
Zinc	0.041 J		0.50	0.020	mg/L		01/04/21 17:53	01/06/21 23:11	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.95		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 02:15	1
Lead	0.15		0.0075	0.0075	mg/L		01/04/21 17:58	01/07/21 15:55	1
Nickel	0.27		0.025	0.010	mg/L		01/04/21 17:58	01/07/21 15:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:40	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 08:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0061	mg/Kg	✱	12/30/20 13:05	12/31/20 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	✱	12/29/20 09:49	12/29/20 11:35	1
pH	9.3		0.2	0.2	SU			12/23/20 17:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (7-13)

Lab Sample ID: 500-192916-3

Date Collected: 12/22/20 13:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0068		0.016	0.0068	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
1,2-Dichloropropene	<0.00040		0.0016	0.00040	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	✳	12/22/20 18:05	12/30/20 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	12/22/20 18:05	12/30/20 16:50	1
Dibromofluoromethane	100		75 - 126	12/22/20 18:05	12/30/20 16:50	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	12/22/20 18:05	12/30/20 16:50	1
Toluene-d8 (Surr)	94		75 - 124	12/22/20 18:05	12/30/20 16:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	✳	12/30/20 07:24	12/30/20 20:10	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	✳	12/30/20 07:24	12/30/20 20:10	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	✳	12/30/20 07:24	12/30/20 20:10	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	✳	12/30/20 07:24	12/30/20 20:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (7-13)

Lab Sample ID: 500-192916-3

Date Collected: 12/22/20 13:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0077		0.039	0.0077	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Dibenz(a,h)anthracene	<0.0077		0.039	0.0077	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2-Nitrophenol	<0.094		0.39	0.094	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (7-13)

Lab Sample ID: 500-192916-3

Date Collected: 12/22/20 13:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Pyrene	0.0099	J	0.039	0.0079	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	12/30/20 07:24	12/30/20 20:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		43 - 145				12/30/20 07:24	12/30/20 20:10	1
2-Fluorophenol	94		31 - 166				12/30/20 07:24	12/30/20 20:10	1
Nitrobenzene-d5	74		37 - 147				12/30/20 07:24	12/30/20 20:10	1
Phenol-d5	74		30 - 153				12/30/20 07:24	12/30/20 20:10	1
Terphenyl-d14	71		42 - 157				12/30/20 07:24	12/30/20 20:10	1
2,4,6-Tribromophenol	65		31 - 143				12/30/20 07:24	12/30/20 20:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.22	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Arsenic	7.0		0.57	0.20	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Barium	33		0.57	0.065	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Beryllium	0.76		0.23	0.054	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Cadmium	<0.021		0.11	0.021	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Chromium	19		0.57	0.28	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Cobalt	14		0.29	0.075	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Copper	27		0.57	0.16	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Iron	27000		57	30	mg/Kg	☼	12/29/20 19:05	01/05/21 23:13	5
Lead	17		1.4	0.66	mg/Kg	☼	12/29/20 19:05	01/06/21 16:45	5
Magnesium	43000	B	29	14	mg/Kg	☼	12/29/20 19:05	01/05/21 23:13	5
Calcium	77000	B	57	9.7	mg/Kg	☼	12/29/20 19:05	01/05/21 23:13	5
Manganese	340		0.57	0.083	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Nickel	38		0.57	0.17	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Selenium	<0.34		0.57	0.34	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Silver	<0.074		0.29	0.074	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Thallium	0.49	J	0.57	0.29	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Vanadium	23		0.29	0.068	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Zinc	67		1.1	0.50	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Potassium	3700		29	10	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1
Sodium	330		57	8.5	mg/Kg	☼	12/29/20 19:05	01/04/21 20:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:44	1
Barium	0.24	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:23	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (7-13)

Lab Sample ID: 500-192916-3

Date Collected: 12/22/20 13:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	460		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:23	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:44	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:44	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:44	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:18	1
Magnesium	97		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:23	1
Manganese	1.9		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:23	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:44	1
Potassium	2.7		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:23	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:18	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:44	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:44	1
Zinc	<0.020	*+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:44	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.057		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 02:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0061	mg/Kg	☼	12/30/20 13:05	12/31/20 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg	☼	12/29/20 09:49	12/29/20 11:36	1
pH	8.1		0.2	0.2	SU			12/23/20 17:34	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

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)
500-192916-1	3972-COV-20-B01 (0-3)	93	99	88	92
500-192916-2	3972-COV-20-B02 (0-7)	96	98	87	93
500-192916-3	3972-COV-20-B02 (7-13)	95	100	92	94
LCS 500-579020/4	Lab Control Sample	85	90	77	94
LCSD 500-579020/5	Lab Control Sample Dup	86	90	77	96
MB 500-579020/7	Method Blank	96	92	80	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-192916-1	3972-COV-20-B01 (0-3)	80	96	83	81	77	87
500-192916-2	3972-COV-20-B02 (0-7)	77	85	78	75	90	65
500-192916-3	3972-COV-20-B02 (7-13)	79	94	74	74	71	65
LCS 500-579030/2-A	Lab Control Sample	93	102	91	91	85	112
MB 500-579030/1-A	Method Blank	85	105	89	85	87	97

Surrogate Legend

FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14
 TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579020/7

Matrix: Solid

Analysis Batch: 579020

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/30/20 10:02	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/30/20 10:02	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/30/20 10:02	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/30/20 10:02	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/30/20 10:02	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/30/20 10:02	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/30/20 10:02	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/30/20 10:02	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/30/20 10:02	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/30/20 10:02	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/30/20 10:02	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/30/20 10:02	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/30/20 10:02	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/30/20 10:02	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/30/20 10:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		75 - 131		12/30/20 10:02	1
Dibromofluoromethane	92		75 - 126		12/30/20 10:02	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		12/30/20 10:02	1
Toluene-d8 (Surr)	92		75 - 124		12/30/20 10:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579020/4
Matrix: Solid
Analysis Batch: 579020

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	0.0504		mg/Kg		101	40 - 150
Benzene	0.0500	0.0511		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0457		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0465		mg/Kg		93	68 - 136
Bromomethane	0.0500	0.0432		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0401		mg/Kg		80	47 - 138
Carbon disulfide	0.0500	0.0547		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0500	0.0545		mg/Kg		109	75 - 125
Chlorobenzene	0.0500	0.0514		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0562		mg/Kg		112	75 - 125
Chloroform	0.0500	0.0482		mg/Kg		96	57 - 135
Chloromethane	0.0500	0.0526		mg/Kg		105	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0408		mg/Kg		82	70 - 125
Dibromochloromethane	0.0500	0.0494		mg/Kg		99	69 - 125
1,1-Dichloroethane	0.0500	0.0575		mg/Kg		115	70 - 125
1,2-Dichloroethane	0.0500	0.0435		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0542		mg/Kg		108	70 - 120
1,2-Dichloropropane	0.0500	0.0526		mg/Kg		105	70 - 125
Ethylbenzene	0.0500	0.0540		mg/Kg		108	61 - 136
2-Hexanone	0.0500	0.0377		mg/Kg		75	48 - 146
Methylene Chloride	0.0500	0.0479		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0367		mg/Kg		73	50 - 148
Methyl tert-butyl ether	0.0500	0.0389		mg/Kg		78	50 - 140
Styrene	0.0500	0.0516		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0404		mg/Kg		81	70 - 122
Tetrachloroethene	0.0500	0.0534		mg/Kg		107	70 - 124
Toluene	0.0500	0.0523		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0541		mg/Kg		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0384		mg/Kg		77	70 - 125
1,1,1-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 128
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125
Trichloroethene	0.0500	0.0548		mg/Kg		110	70 - 125
Vinyl acetate	0.0500	0.0334		mg/Kg		67	40 - 153
Vinyl chloride	0.0500	0.0569		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0999		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	85		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-579020/5
Matrix: Solid
Analysis Batch: 579020

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	0.0467		mg/Kg		93	40 - 150	8	30
Benzene	0.0500	0.0564		mg/Kg		113	70 - 125	10	30
Bromodichloromethane	0.0500	0.0505		mg/Kg		101	67 - 129	10	30
Bromoform	0.0500	0.0524		mg/Kg		105	68 - 136	12	30
Bromomethane	0.0500	0.0465		mg/Kg		93	70 - 130	8	30
2-Butanone (MEK)	0.0500	0.0387		mg/Kg		77	47 - 138	4	30
Carbon disulfide	0.0500	0.0594		mg/Kg		119	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0593		mg/Kg		119	75 - 125	8	30
Chlorobenzene	0.0500	0.0574		mg/Kg		115	50 - 150	11	30
Chloroethane	0.0500	0.0595		mg/Kg		119	75 - 125	6	30
Chloroform	0.0500	0.0527		mg/Kg		105	57 - 135	9	30
Chloromethane	0.0500	0.0556		mg/Kg		111	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 125	9	30
cis-1,3-Dichloropropene	0.0500	0.0463		mg/Kg		93	70 - 125	13	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0622		mg/Kg		124	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130	9	30
1,1-Dichloroethene	0.0500	0.0583		mg/Kg		117	70 - 120	7	30
1,2-Dichloropropane	0.0500	0.0580		mg/Kg		116	70 - 125	10	30
Ethylbenzene	0.0500	0.0600		mg/Kg		120	61 - 136	11	30
2-Hexanone	0.0500	0.0413		mg/Kg		83	48 - 146	9	30
Methylene Chloride	0.0500	0.0520		mg/Kg		104	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0409		mg/Kg		82	50 - 148	11	30
Methyl tert-butyl ether	0.0500	0.0434		mg/Kg		87	50 - 140	11	30
Styrene	0.0500	0.0578		mg/Kg		116	70 - 125	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0457		mg/Kg		91	70 - 122	12	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	11	30
Toluene	0.0500	0.0582		mg/Kg		116	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0592		mg/Kg		118	70 - 125	9	30
trans-1,3-Dichloropropene	0.0500	0.0431		mg/Kg		86	70 - 125	12	30
1,1,1-Trichloroethane	0.0500	0.0559		mg/Kg		112	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0502		mg/Kg		100	70 - 125	13	30
Trichloroethene	0.0500	0.0598		mg/Kg		120	70 - 125	9	30
Vinyl acetate	0.0500	0.0333		mg/Kg		67	40 - 153	0	30
Vinyl chloride	0.0500	0.0613		mg/Kg		123	70 - 125	7	30
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147	11	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579030/1-A

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 579030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-579030/1-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	12/30/20 07:24	12/30/20 19:14	1
2-Fluorophenol	105		31 - 166	12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene-d5	89		37 - 147	12/30/20 07:24	12/30/20 19:14	1
Phenol-d5	85		30 - 153	12/30/20 07:24	12/30/20 19:14	1
Terphenyl-d14	87		42 - 157	12/30/20 07:24	12/30/20 19:14	1
2,4,6-Tribromophenol	97		31 - 143	12/30/20 07:24	12/30/20 19:14	1

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124
Acenaphthylene	1.33	1.22		mg/Kg		91	68 - 120
Anthracene	1.33	1.12		mg/Kg		84	70 - 114
Benzo[a]anthracene	1.33	1.08		mg/Kg		81	67 - 122
Benzo[a]pyrene	1.33	1.26		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	69 - 129
Benzo[g,h,i]perylene	1.33	1.41		mg/Kg		106	72 - 131
Benzo[k]fluoranthene	1.33	1.25		mg/Kg		94	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.21		mg/Kg		90	60 - 112
Bis(2-chloroethyl)ether	1.33	1.19		mg/Kg		89	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.11		mg/Kg		83	72 - 131
4-Bromophenyl phenyl ether	1.33	1.23		mg/Kg		92	68 - 118
Butyl benzyl phthalate	1.33	1.08		mg/Kg		81	71 - 129
Carbazole	1.33	1.29		mg/Kg		97	65 - 142
4-Chloroaniline	1.33	1.10		mg/Kg		82	30 - 150
4-Chloro-3-methylphenol	1.33	1.35		mg/Kg		101	65 - 122
2-Chloronaphthalene	1.33	1.20		mg/Kg		90	69 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579030/2-A

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.24		mg/Kg		93	66 - 115
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	65 - 124
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.925		mg/Kg		69	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.06		mg/Kg		79	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		94	69 - 116
Di-n-butyl phthalate	1.33	1.14		mg/Kg		86	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.24		mg/Kg		47	10 - 110
2,4-Dinitrophenol	2.67	0.795		mg/Kg		30	10 - 100
2,4-Dinitrotoluene	1.33	1.29		mg/Kg		97	69 - 124
2,6-Dinitrotoluene	1.33	1.28		mg/Kg		96	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.18		mg/Kg		88	62 - 120
Fluorene	1.33	1.21		mg/Kg		90	62 - 120
Hexachlorobenzene	1.33	1.39		mg/Kg		104	63 - 124
Hexachlorobutadiene	1.33	1.43		mg/Kg		107	56 - 120
Hexachlorocyclopentadiene	1.33	0.506	J	mg/Kg		38	10 - 133
Hexachloroethane	1.33	1.21		mg/Kg		91	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.38		mg/Kg		104	68 - 130
Isophorone	1.33	1.23		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.18		mg/Kg		89	69 - 112
2-Methylphenol	1.33	1.44		mg/Kg		108	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		95	57 - 120
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
3-Nitroaniline	1.33	1.02		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.08		mg/Kg		81	60 - 160
Nitrobenzene	1.33	1.24		mg/Kg		93	60 - 116
2-Nitrophenol	1.33	1.18		mg/Kg		88	60 - 120
4-Nitrophenol	2.67	2.95		mg/Kg		110	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	56 - 118
N-Nitrosodiphenylamine	1.33	1.14		mg/Kg		85	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.07		mg/Kg		80	40 - 124
Pentachlorophenol	2.67	1.69		mg/Kg		63	13 - 112
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Phenol	1.33	1.17		mg/Kg		88	56 - 122
Pyrene	1.33	1.06		mg/Kg		80	61 - 128
1,2,4-Trichlorobenzene	1.33	1.27		mg/Kg		96	66 - 117
2,4,5-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		94	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	93		43 - 145
2-Fluorophenol	102		31 - 166
Nitrobenzene-d5	91		37 - 147
Phenol-d5	91		30 - 153
Terphenyl-d14	85		42 - 157
2,4,6-Tribromophenol	112		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578981/1-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578981

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Barium	<0.11		1.0	0.11	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Cadmium	0.0500	J	0.20	0.036	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Copper	<0.28		1.0	0.28	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Iron	<10		20	10	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Lead	<0.23		0.50	0.23	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Magnesium	6.23	J	10	5.0	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Calcium	9.75	J	20	3.4	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Silver	<0.13		0.50	0.13	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Zinc	<0.88	^+	2.0	0.88	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Potassium	<18		50	18	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Sodium	<15		100	15	mg/Kg		12/29/20 19:05	01/04/21 18:45	1

Lab Sample ID: LCS 500-578981/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578981

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	42.7		mg/Kg		85		80 - 120
Arsenic	10.0	9.40		mg/Kg		94		80 - 120
Barium	200	192		mg/Kg		96		80 - 120
Beryllium	5.00	4.80		mg/Kg		96		80 - 120
Cadmium	5.00	4.60		mg/Kg		92		80 - 120
Chromium	20.0	19.6		mg/Kg		98		80 - 120
Cobalt	50.0	49.6		mg/Kg		99		80 - 120
Copper	25.0	24.0		mg/Kg		96		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-578981/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.46		mg/Kg		95	80 - 120
Magnesium	1000	960		mg/Kg		96	80 - 120
Calcium	1000	991		mg/Kg		99	80 - 120
Manganese	50.0	48.0		mg/Kg		96	80 - 120
Nickel	50.0	48.7		mg/Kg		97	80 - 120
Selenium	10.0	8.12		mg/Kg		81	80 - 120
Silver	5.00	4.46		mg/Kg		89	80 - 120
Thallium	10.0	9.55		mg/Kg		95	80 - 120
Vanadium	50.0	49.4		mg/Kg		99	80 - 120
Zinc	50.0	48.5	^+	mg/Kg		97	80 - 120
Potassium	1000	930		mg/Kg		93	80 - 120
Sodium	1000	951		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-579532/25-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.487	J	mg/L		97	80 - 120
Beryllium	0.0500	0.0477		mg/L		95	80 - 120
Magnesium	10.0	9.25		mg/L		93	80 - 120
Calcium	10.0	9.71		mg/L		97	80 - 120
Manganese	0.500	0.492		mg/L		98	80 - 120
Potassium	10.0	9.15		mg/L		91	80 - 120

Lab Sample ID: LCS 500-579532/25-A
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0992		mg/L		99	80 - 120
Cadmium	0.0500	0.0468		mg/L		94	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.477		mg/L		95	80 - 120
Copper	0.250	0.240		mg/L		96	80 - 120
Iron	1.00	1.09		mg/L		109	80 - 120
Silver	0.0500	0.0457		mg/L		91	80 - 120
Vanadium	0.500	0.492		mg/L		98	80 - 120
Zinc	0.500	0.480	J	mg/L		96	80 - 120

Lab Sample ID: LCS 500-579532/25-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0989		mg/L		99	80 - 120
Nickel	0.500	0.484		mg/L		97	80 - 120
Selenium	0.100	0.109		mg/L		109	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Nickel	0.500	0.541		mg/L		108	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Zinc	0.500	0.606	*+	mg/L		121	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120

Lab Sample ID: LCS 500-579535/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579535
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.491		mg/L		98	80 - 120

Lab Sample ID: LCS 500-579535/2-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579535
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0979		mg/L		98	80 - 120
Nickel	0.500	0.496		mg/L		99	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.050		0.50	0.050	mg/L		01/04/21 17:53	01/05/21 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/05/21 23:59	1
Magnesium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Calcium	<0.50		5.0	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/05/21 23:59	1
Potassium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:27	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Zinc	0.0239	J	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:27	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 17:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 17:55	1

Lab Sample ID: LB2 500-579351/1-B
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.050		0.50	0.050	mg/L		01/04/21 17:53	01/06/21 01:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 01:41	1
Magnesium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:41	1
Calcium	<0.50		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 01:41	1
Manganese	0.0154	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 01:41	1
Potassium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:41	1

Lab Sample ID: LB2 500-579351/1-B
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 23:05	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-579351/1-B
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 23:05	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:05	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:05	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:05	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 23:05	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:05	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 23:05	1
Zinc	<0.020		0.50	0.020	mg/L		01/04/21 17:53	01/06/21 23:05	1

Lab Sample ID: LB2 500-579351/1-B
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 19:46	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/07/21 19:46	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 19:46	1

Lab Sample ID: LB 500-579349/1-B
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579535

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 01:52	1

Lab Sample ID: LB 500-579349/1-B
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 579535

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:58	01/07/21 15:39	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:58	01/07/21 15:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579532/25-A
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.500	0.466		mg/L		93	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.500	0.492		mg/L		98	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:39	1

Lab Sample ID: LB2 500-579351/1-B
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:36	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579477/12-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579477

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:01	1

Lab Sample ID: LCS 500-579477/14-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: MB 500-579478/12-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579478

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 07:44	1

Lab Sample ID: LCS 500-579478/30-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LB 500-579346/1-B
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579477

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:03	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB2 500-579351/2-B
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579478

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 08:52	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-579093/12-A
 Matrix: Solid
 Analysis Batch: 579294

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 579093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/30/20 13:05	12/31/20 08:17	1

Lab Sample ID: LCS 500-579093/13-A
 Matrix: Solid
 Analysis Batch: 579294

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578858/1-A
 Matrix: Solid
 Analysis Batch: 578907

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/29/20 09:49	12/29/20 11:10	1

Lab Sample ID: HLCS 500-578858/2-A
 Matrix: Solid
 Analysis Batch: 578907

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578858

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.9		mg/Kg		99	90 - 110

Lab Sample ID: LCS 500-578858/3-A
 Matrix: Solid
 Analysis Batch: 578907

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.51		mg/Kg		105	85 - 115

Lab Sample ID: LLCS 500-578858/4-A
 Matrix: Solid
 Analysis Batch: 578907

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578858

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.25		mg/Kg		104	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

GC/MS VOA

Prep Batch: 578787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	5035	
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	5035	
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	5035	

Analysis Batch: 579020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	8260B	578787
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	8260B	578787
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	8260B	578787
MB 500-579020/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-579020/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-579020/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 579030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	3541	
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	3541	
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	3541	
MB 500-579030/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 579167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	8270D	579030
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	8270D	579030
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	8270D	579030
MB 500-579030/1-A	Method Blank	Total/NA	Solid	8270D	579030
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	8270D	579030

Metals

Prep Batch: 578981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	3050B	
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	3050B	
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	3050B	
MB 500-578981/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578981/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 579093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	7471B	
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	7471B	
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	7471B	
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 579294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	7471B	579093

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Metals (Continued)

Analysis Batch: 579294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	7471B	579093
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	7471B	579093
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	579093
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	579093

Leach Batch: 579346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	TCLP	Solid	1311	
500-192916-3	3972-COV-20-B02 (7-13)	TCLP	Solid	1311	
LB 500-579346/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579346/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 579349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	SPLP East	Solid	1312	
500-192916-2	3972-COV-20-B02 (0-7)	SPLP East	Solid	1312	
500-192916-3	3972-COV-20-B02 (7-13)	SPLP East	Solid	1312	
LB 500-579349/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 579351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-2	3972-COV-20-B02 (0-7)	TCLP	Solid	1311	
LB2 500-579351/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-579351/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 579477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	TCLP	Solid	7470A	579346
500-192916-3	3972-COV-20-B02 (7-13)	TCLP	Solid	7470A	579346
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579346
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-2	3972-COV-20-B02 (0-7)	TCLP	Solid	7470A	579351
LB2 500-579351/2-B	Method Blank	TCLP	Solid	7470A	579351
MB 500-579478/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579478/30-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	TCLP	Solid	3010A	579346
500-192916-2	3972-COV-20-B02 (0-7)	TCLP	Solid	3010A	579351
500-192916-3	3972-COV-20-B02 (7-13)	TCLP	Solid	3010A	579346
LB 500-579346/1-C	Method Blank	TCLP	Solid	3010A	579346
LB2 500-579351/1-B	Method Blank	TCLP	Solid	3010A	579351
LCS 500-579532/25-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Metals

Prep Batch: 579535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	SPLP East	Solid	3010A	579349
500-192916-2	3972-COV-20-B02 (0-7)	SPLP East	Solid	3010A	579349
500-192916-3	3972-COV-20-B02 (7-13)	SPLP East	Solid	3010A	579349
LB 500-579349/1-B	Method Blank	SPLP East	Solid	3010A	579349
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	6010B	578981
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	6010B	578981
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	6010B	578981
MB 500-578981/1-A	Method Blank	Total/NA	Solid	6010B	578981
LCS 500-578981/2-A	Lab Control Sample	Total/NA	Solid	6010B	578981

Analysis Batch: 579681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	TCLP	Solid	7470A	579477
500-192916-2	3972-COV-20-B02 (0-7)	TCLP	Solid	7470A	579478
500-192916-3	3972-COV-20-B02 (7-13)	TCLP	Solid	7470A	579477
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579477
LB2 500-579351/2-B	Method Blank	TCLP	Solid	7470A	579478
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	579477
MB 500-579478/12-A	Method Blank	Total/NA	Solid	7470A	579478
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	579477
LCS 500-579478/30-A	Lab Control Sample	Total/NA	Solid	7470A	579478

Analysis Batch: 579700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	TCLP	Solid	6020A	579532
500-192916-2	3972-COV-20-B02 (0-7)	TCLP	Solid	6020A	579532
500-192916-3	3972-COV-20-B02 (7-13)	TCLP	Solid	6020A	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6020A	579532
LB2 500-579351/1-B	Method Blank	TCLP	Solid	6020A	579532
LCS 500-579532/25-A	Lab Control Sample	Total/NA	Solid	6020A	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6020A	579532

Analysis Batch: 579797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	SPLP East	Solid	6010B	579535
500-192916-1	3972-COV-20-B01 (0-3)	TCLP	Solid	6010B	579532
500-192916-2	3972-COV-20-B02 (0-7)	SPLP East	Solid	6010B	579535
500-192916-2	3972-COV-20-B02 (0-7)	TCLP	Solid	6010B	579532
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	6010B	578981
500-192916-3	3972-COV-20-B02 (7-13)	SPLP East	Solid	6010B	579535
500-192916-3	3972-COV-20-B02 (7-13)	TCLP	Solid	6010B	579532
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	6010B	578981
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LB 500-579349/1-B	Method Blank	SPLP East	Solid	6010B	579535
LB2 500-579351/1-B	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/25-A	Lab Control Sample	Total/NA	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Metals (Continued)

Analysis Batch: 579797 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	6010B	579535

Analysis Batch: 579993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	6010B	578981
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	6010B	578981

Analysis Batch: 579995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	TCLP	Solid	6010B	579532
500-192916-2	3972-COV-20-B02 (0-7)	TCLP	Solid	6010B	579532
500-192916-2	3972-COV-20-B02 (0-7)	TCLP	Solid	6010B	579532
500-192916-3	3972-COV-20-B02 (7-13)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LB2 500-579351/1-B	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/25-A	Lab Control Sample	Total/NA	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Analysis Batch: 580182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	SPLP East	Solid	6010B	579535
500-192916-1	3972-COV-20-B01 (0-3)	TCLP	Solid	6010B	579532
500-192916-2	3972-COV-20-B02 (0-7)	SPLP East	Solid	6010B	579535
500-192916-2	3972-COV-20-B02 (0-7)	TCLP	Solid	6010B	579532
500-192916-3	3972-COV-20-B02 (7-13)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LB 500-579349/1-B	Method Blank	SPLP East	Solid	6010B	579535
LB2 500-579351/1-B	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/25-A	Lab Control Sample	Total/NA	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	6010B	579535

General Chemistry

Analysis Batch: 578304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	Moisture	
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	Moisture	
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	9045D	
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	9045D	
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	9010C	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

General Chemistry (Continued)

Prep Batch: 578858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	9010C	
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	9010C	
MB 500-578858/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578858/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578858/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578858/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192916-1	3972-COV-20-B01 (0-3)	Total/NA	Solid	9012B	578858
500-192916-2	3972-COV-20-B02 (0-7)	Total/NA	Solid	9012B	578858
500-192916-3	3972-COV-20-B02 (7-13)	Total/NA	Solid	9012B	578858
MB 500-578858/1-A	Method Blank	Total/NA	Solid	9012B	578858
HLCS 500-578858/2-A	Lab Control Sample	Total/NA	Solid	9012B	578858
LCS 500-578858/3-A	Lab Control Sample	Total/NA	Solid	9012B	578858
LLCS 500-578858/4-A	Lab Control Sample	Total/NA	Solid	9012B	578858



Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B01 (0-3)

Lab Sample ID: 500-192916-1

Date Collected: 12/22/20 13:15

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 02:12	EEN	TAL CHI
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	580182	01/07/21 15:51	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:19	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 21:40	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:15	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 12:47	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:12	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 17:29	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578304	12/23/20 11:12	LWN	TAL CHI

Client Sample ID: 3972-COV-20-B01 (0-3)

Lab Sample ID: 500-192916-1

Date Collected: 12/22/20 13:15

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578787	12/22/20 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 15:59	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579167	12/30/20 19:42	NRJ	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 19:54	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 08:20	MJG	TAL CHI
Total/NA	Prep	9010C			578858	12/29/20 09:49	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578907	12/29/20 11:33	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (0-7)

Lab Sample ID: 500-192916-2

Date Collected: 12/22/20 12:55

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 02:15	EEN	TAL CHI
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	580182	01/07/21 15:55	EEN	TAL CHI
TCLP	Leach	1311			579351	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 01:48	EEN	TAL CHI
TCLP	Leach	1311			579351	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 23:11	EEN	TAL CHI
TCLP	Leach	1311			579351	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		10	579995	01/06/21 23:15	EEN	TAL CHI
TCLP	Leach	1311			579351	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 19:52	EEN	TAL CHI
TCLP	Leach	1311			579351	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:40	FXG	TAL CHI
TCLP	Leach	1311			579351	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579478	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 08:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 17:32	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578304	12/23/20 11:12	LWN	TAL CHI

Client Sample ID: 3972-COV-20-B02 (0-7)

Lab Sample ID: 500-192916-2

Date Collected: 12/22/20 12:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578787	12/22/20 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 16:25	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579167	12/30/20 23:30	NRJ	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 19:57	EEN	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579797	01/05/21 23:10	EEN	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579993	01/06/21 16:35	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 08:23	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (0-7)

Lab Sample ID: 500-192916-2

Date Collected: 12/22/20 12:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010C			578858	12/29/20 09:49	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578907	12/29/20 11:35	PSP	TAL CHI

Client Sample ID: 3972-COV-20-B02 (7-13)

Lab Sample ID: 500-192916-3

Date Collected: 12/22/20 13:00

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 02:18	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:23	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 21:44	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:18	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 12:49	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:14	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 17:34	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578304	12/23/20 11:12	LWN	TAL CHI

Client Sample ID: 3972-COV-20-B02 (7-13)

Lab Sample ID: 500-192916-3

Date Collected: 12/22/20 13:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578787	12/22/20 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 16:50	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579167	12/30/20 20:10	NRJ	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 20:00	EEN	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579797	01/05/21 23:13	EEN	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		5	579993	01/06/21 16:45	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Client Sample ID: 3972-COV-20-B02 (7-13)

Lab Sample ID: 500-192916-3

Date Collected: 12/22/20 13:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 83.1

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 08:25	MJG	TAL CHI
Total/NA	Prep	9010C			578858	12/29/20 09:49	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578907	12/29/20 11:36	PSP	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192916-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192916-1	3972-COV-20-B01 (0-3)	Solid	12/22/20 13:15	12/22/20 17:22	
500-192916-2	3972-COV-20-B02 (0-7)	Solid	12/22/20 12:55	12/22/20 17:22	
500-192916-3	3972-COV-20-B02 (7-13)	Solid	12/22/20 13:00	12/22/20 17:22	

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Report To (optional)
Contact: Matt Weiss
Company: TERRACON
Address: 192 Exchange Blvd
Glendale Heights IL
Phone: 630-445-0160
Fax:
E-Mail: MATT.WEISS@TERRACON.COM

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#



500-192916 COC

Chain of Custody Record

Lab Job #: 500-192916
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 2.9-06

Client		Client Project #		Preservative		Parameter		Matrix		Comments				
TERRACON		11207011W												
Project Name		Lab Project #												
Project Location/State		Lab PM												
Sampler														
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC's	SVOCS	Total 23	Inorganics/PH	TECP 23	Inorganics	SPL 23	Inorganics
			Date	Time										
1		3972-COV-20-B01 (6-3)	12/22/20	1315	6	Soil	X	X	X	X	X	X		
2		3972-COV-20-B02 (6-7)	12/22/20	1255	6	Soil	X	X	X	X	X	X		
3		3972-COV-20-B02 (7-13)	12/22/20	1300	6	Soil	X	X	X	X	X	X		

- Preservative Key
- HCL, Cool to 4°
 - H2SO4, Cool to 4°
 - HNO3, Cool to 4°
 - NaOH, Cool to 4°
 - NaOH/Zn, Cool to 4°
 - NaHSO4
 - Cool to 4°
 - None
 - Other

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>TERRACON</u>	Date: <u>12/22/20</u>	Time: <u>1610</u>	Received By: <u>[Signature]</u>	Company: <u>ETA</u>	Date: <u>12/22/20</u>	Time: <u>1610</u>
Relinquished By: <u>[Signature]</u>	Company: <u>ETA</u>	Date: <u>12/22/20</u>	Time: <u>1722</u>	Received By: <u>[Signature]</u>	Company: <u>ETA</u>	Date: <u>12/22/20</u>	Time: <u>1722</u>

Lab Courier:
 Shipped:
 Hand Delivered:

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments
* No Aluminum
* Hold SPL 23 Inorganics per Terracon Instruction

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192916-1

Login Number: 192916

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Buckley, Paula M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Barrington Road (Northbound) IDOT STA 57+70 to 59+50 (ISGS Site 3972-COV-21)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Schaumburg

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.00459 Longitude: -88.14458

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 111

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil from boring B01 was sampled adjacent to ISGS Site No 3972-COV-21. See Exhibits 2 and 3 and Table 33 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Eurofins TestAmerica, Chicago Report No. J192922-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc.
 Street Address: 192 Exchange Boulevard
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/18/21
Date:



P.E or L.P.G. Seal:

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-21)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-21-B01 (0-7)	3972-COV-21-B01 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(7-13)
					Date Collected	12/22/2020	12/22/2020
Volatile Organic Analytical Parameters							
Methyl Tertiary-Butyl Ether	mg/kg	---	---	0.32		<0.00042	0.0013
Acetone	mg/kg	---	---	25		0.0090	<0.0063
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.012	<0.0051
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.015	<0.0073
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.020	<0.0081
Chrysene	mg/kg	1.2	2.7	88		0.020	<0.010
Fluoranthene	mg/kg	2.7	4.1	3100		0.021	<0.0070
Phenanthrene	mg/kg	1.3	2.5	210		0.034	<0.0053
Pyrene	mg/kg	1.9	3.0	2300		0.026	0.013
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.5	6.5
Barium	mg/kg	---	110	1500		37	39
Cadmium	mg/kg	---	0.6	5.2		<0.020	0.060
Chromium, total	mg/kg	---	16.2	21		15	19
Lead	mg/kg	---	36	107		15	18
Mercury	mg/kg	---	0.06	0.89		0.029	0.021
Selenium	mg/kg	---	0.48	1.3		<0.33	<0.32
Silver	mg/kg	---	0.55	4.4		<0.071	<0.070
Antimony	mg/kg	---	4.0	5		0.45	0.68
Beryllium	mg/kg	---	0.59	22		0.61	0.66
Calcium	mg/kg	---	9,300	---		74000	72000
Cobalt	mg/kg	---	8.9	20		13	12
Copper	mg/kg	---	19.6	2900		24	23
Cyanide	mg/kg	---	0.51	---		<0.14	<0.14
Iron	mg/kg	---	15,900	15000		18000	20000
Magnesium	mg/kg	---	4,820	325000		32000	30000
Manganese	mg/kg	---	636	630		430	320
Nickel	mg/kg	---	18	100		31	33
Potassium	mg/kg	---	1,268	---		2700	3100
Sodium	mg/kg	---	130	---		1700	330
Thallium	mg/kg	---	0.32	2.6		0.40	0.66
Vanadium	mg/kg	---	25.2	550		21	22
Zinc	mg/kg	---	95	5100		54	71
pH			6.25	9		8.3	8.0

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-21)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-21-B01 (0-7)	3972-COV-21-B01 (7-13)
		Chicago	MSAs		Sample Depth (feet)	(0-7)	(7-13)
					Date Collected	12/22/2020	12/22/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		2.2	0.026
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.49	0.45
Cadmium,TCLP	mg/L	---	---	---		<0.0020	0.0031
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		480	600
Cobalt,TCLP	mg/L	---	---	---		0.017	<0.010
Copper,TCLP	mg/L	---	---	---		0.015	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		41	38
Manganese,TCLP	mg/L	---	---	---		5.0	1.9
Nickel,TCLP	mg/L	---	---	---		0.018	<0.010
Potassium,TCLP	mg/L	---	---	---		2.7	2.8
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.032	<0.020

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-192922-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
1/8/2021 11:19:30 AM

Richard Wright, Senior Project Manager
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Job ID: 500-192922-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192922-1

Receipt

The samples were received on 12/22/2020 5:22 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 579281 were outside control limits, including recoveries at 0% and RPD values that cannot be calculated (NC) because of 0% recoveries. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-579346 and 500-579532 and analytical batch 500-579995 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

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: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (0-7)

Lab Sample ID: 500-192922-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0090	J	0.014	0.0063	mg/Kg	1	✳	8260B	Total/NA
Benzo[a]anthracene	0.012	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.020	J	0.038	0.0081	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.020	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.021	J	0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.011	J	0.076	0.0069	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.034	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.026	J	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.45	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.5		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	37		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.61		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Chromium	15		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	15		1.4	0.64	mg/Kg	5	✳	6010B	Total/NA
Magnesium	32000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Calcium	74000	B	55	9.4	mg/Kg	5	✳	6010B	Total/NA
Manganese	430		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.40	J	0.55	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	54		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	2700		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Sodium	1700		55	8.2	mg/Kg	1	✳	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	41		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.032	J B **	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3972-COV-21-B01 (7-13)

Lab Sample ID: 500-192922-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.0013	J	0.0015	0.00043	mg/Kg	1	✳	8260B	Total/NA
Pyrene	0.013	J	0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.68	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.5		0.54	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	39		0.54	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.66		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.060	J	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.54	0.27	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (7-13) (Continued)

Lab Sample ID: 500-192922-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	12		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	18		1.4	0.63	mg/Kg	5	☼	6010B	Total/NA
Magnesium	30000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	72000	B	54	9.2	mg/Kg	5	☼	6010B	Total/NA
Manganese	320		0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.66		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	330		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	600		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	38		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.026		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0059	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 TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (0-7)

Lab Sample ID: 500-192922-1

Date Collected: 12/22/20 09:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0090	J	0.014	0.0063	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Benzene	<0.00037		0.0014	0.00037	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Bromodichloromethane	<0.00029		0.0014	0.00029	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Bromoform	<0.00042		0.0014	0.00042	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Bromomethane	<0.0014		0.0036	0.0014	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
2-Butanone (MEK)	<0.0016		0.0036	0.0016	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Carbon disulfide	<0.00075		0.0036	0.00075	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Carbon tetrachloride	<0.00042		0.0014	0.00042	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Chlorobenzene	<0.00053		0.0014	0.00053	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Chloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Chloroform	<0.00050		0.0014	0.00050	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Chloromethane	<0.0015		0.0036	0.0015	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
cis-1,2-Dichloroethene	<0.00040		0.0014	0.00040	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
cis-1,3-Dichloropropene	<0.00044		0.0014	0.00044	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Dibromochloromethane	<0.00047		0.0014	0.00047	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
1,1-Dichloroethane	<0.00050		0.0014	0.00050	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
1,2-Dichloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
1,1-Dichloroethene	<0.00050		0.0014	0.00050	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
1,2-Dichloropropene	<0.00037		0.0014	0.00037	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
1,3-Dichloropropene, Total	<0.00051		0.0014	0.00051	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Ethylbenzene	<0.00069		0.0014	0.00069	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
2-Hexanone	<0.0011		0.0036	0.0011	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Methylene Chloride	<0.0014		0.0036	0.0014	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0036	0.0011	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Methyl tert-butyl ether	<0.00042		0.0014	0.00042	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Styrene	<0.00044		0.0014	0.00044	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
1,1,2,2-Tetrachloroethane	<0.00046		0.0014	0.00046	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Tetrachloroethene	<0.00049		0.0014	0.00049	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Toluene	<0.00037		0.0014	0.00037	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
trans-1,2-Dichloroethene	<0.00064		0.0014	0.00064	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
trans-1,3-Dichloropropene	<0.00051		0.0014	0.00051	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
1,1,1-Trichloroethane	<0.00049		0.0014	0.00049	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
1,1,2-Trichloroethane	<0.00062		0.0014	0.00062	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Trichloroethene	<0.00049		0.0014	0.00049	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Vinyl acetate	<0.0013		0.0036	0.0013	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Vinyl chloride	<0.00064		0.0014	0.00064	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1
Xylenes, Total	<0.00046		0.0029	0.00046	mg/Kg	☼	12/23/20 17:29	12/31/20 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	12/23/20 17:29	12/31/20 17:29	1
Dibromofluoromethane	102		75 - 126	12/23/20 17:29	12/31/20 17:29	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	12/23/20 17:29	12/31/20 17:29	1
Toluene-d8 (Surr)	92		75 - 124	12/23/20 17:29	12/31/20 17:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Benzo[a]anthracene	0.012	J	0.038	0.0051	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (0-7)

Lab Sample ID: 500-192922-1

Date Collected: 12/22/20 09:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.015	J	0.038	0.0073	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Benzo[b]fluoranthene	0.020	J	0.038	0.0081	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Benzo[g,h,i]perylene	<0.012	F1	0.038	0.012	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Chrysene	0.020	J	0.038	0.010	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Dibenz(a,h)anthracene	<0.0073	F1	0.038	0.0073	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
3,3'-Dichlorobenzidine	<0.053	F1	0.19	0.053	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2,4-Dinitrophenol	<0.66	F1	0.76	0.66	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Fluoranthene	0.021	J	0.038	0.0070	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Hexachlorocyclopentadiene	<0.22	F1	0.76	0.22	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Indeno[1,2,3-cd]pyrene	<0.0098	F1	0.038	0.0098	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2-Methylnaphthalene	0.011	J	0.076	0.0069	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
Nitrobenzene	<0.0094		0.038	0.0094	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1
2-Nitrophenol	<0.089		0.38	0.089	mg/Kg	☼	12/31/20 08:12	12/31/20 19:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (0-7)

Lab Sample ID: 500-192922-1

Date Collected: 12/22/20 09:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36	F1	0.76	0.36	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
Phenanthrene	0.034	J	0.038	0.0053	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
Phenol	<0.084		0.19	0.084	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
Pyrene	0.026	J	0.038	0.0075	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
2,4,5-Trichlorophenol	<0.086		0.38	0.086	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	✱	12/31/20 08:12	12/31/20 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		43 - 145				12/31/20 08:12	12/31/20 19:15	1
2-Fluorophenol	88		31 - 166				12/31/20 08:12	12/31/20 19:15	1
Nitrobenzene-d5	97		37 - 147				12/31/20 08:12	12/31/20 19:15	1
Phenol-d5	91		30 - 153				12/31/20 08:12	12/31/20 19:15	1
Terphenyl-d14	97		42 - 157				12/31/20 08:12	12/31/20 19:15	1
2,4,6-Tribromophenol	95		31 - 143				12/31/20 08:12	12/31/20 19:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.1	0.22	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Arsenic	7.5		0.55	0.19	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Barium	37		0.55	0.063	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Beryllium	0.61		0.22	0.052	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Cadmium	<0.020		0.11	0.020	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Chromium	15		0.55	0.27	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Cobalt	13		0.28	0.072	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Copper	24		0.55	0.15	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Iron	18000		11	5.8	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Lead	15		1.4	0.64	mg/Kg	✱	12/30/20 06:38	01/05/21 20:56	5
Magnesium	32000		5.5	2.7	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Calcium	74000	B	55	9.4	mg/Kg	✱	12/30/20 06:38	01/05/21 20:56	5
Manganese	430		0.55	0.080	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Nickel	31		0.55	0.16	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Selenium	<0.33		0.55	0.33	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Silver	<0.071		0.28	0.071	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Thallium	0.40	J	0.55	0.28	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Vanadium	21		0.28	0.065	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Zinc	54		1.1	0.49	mg/Kg	✱	12/30/20 06:38	01/05/21 20:52	1
Potassium	2700		28	9.8	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1
Sodium	1700		55	8.2	mg/Kg	✱	12/30/20 06:38	01/04/21 18:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 22:38	1
Barium	0.49	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 01:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 01:14	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 22:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (0-7)

Lab Sample ID: 500-192922-1

Date Collected: 12/22/20 09:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	480		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 01:14	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:38	1
Cobalt	0.017	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:38	1
Copper	0.015	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:38	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 22:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 19:15	1
Magnesium	41		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:14	1
Manganese	5.0		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 01:14	1
Nickel	0.018	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:38	1
Potassium	2.7		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:14	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 19:15	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:38	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:38	1
Zinc	0.032	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 22:38	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.2		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 03:10	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:19	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0060	mg/Kg	✱	12/30/20 13:05	12/31/20 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.27	0.14	mg/Kg	✱	12/29/20 14:12	12/29/20 16:26	1
pH	8.3		0.2	0.2	SU			12/28/20 17:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (7-13)

Lab Sample ID: 500-192922-2

Date Collected: 12/22/20 09:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0063		0.015	0.0063	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Benzene	<0.00037		0.0015	0.00037	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Bromoform	<0.00042		0.0015	0.00042	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Bromomethane	<0.0014		0.0036	0.0014	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
2-Butanone (MEK)	<0.0016		0.0036	0.0016	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Carbon disulfide	<0.00076		0.0036	0.00076	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Carbon tetrachloride	<0.00042		0.0015	0.00042	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Chlorobenzene	<0.00054		0.0015	0.00054	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Chloroethane	<0.0011		0.0036	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Chloroform	<0.00050		0.0015	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Chloromethane	<0.0015		0.0036	0.0015	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
cis-1,2-Dichloroethene	<0.00041		0.0015	0.00041	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
cis-1,3-Dichloropropene	<0.00044		0.0015	0.00044	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Dibromochloromethane	<0.00048		0.0015	0.00048	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
1,1-Dichloroethane	<0.00050		0.0015	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
1,2-Dichloroethane	<0.0011		0.0036	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
1,1-Dichloroethene	<0.00050		0.0015	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
1,2-Dichloropropene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
1,3-Dichloropropene, Total	<0.00051		0.0015	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Ethylbenzene	<0.00070		0.0015	0.00070	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
2-Hexanone	<0.0011		0.0036	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Methylene Chloride	<0.0014		0.0036	0.0014	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0036	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Methyl tert-butyl ether	0.0013	J	0.0015	0.00043	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Styrene	<0.00044		0.0015	0.00044	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
1,1,2,2-Tetrachloroethane	<0.00046		0.0015	0.00046	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Tetrachloroethene	<0.00050		0.0015	0.00050	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Toluene	<0.00037		0.0015	0.00037	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
trans-1,2-Dichloroethene	<0.00064		0.0015	0.00064	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
trans-1,3-Dichloropropene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
1,1,1-Trichloroethane	<0.00049		0.0015	0.00049	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
1,1,2-Trichloroethane	<0.00062		0.0015	0.00062	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Trichloroethene	<0.00049		0.0015	0.00049	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Vinyl acetate	<0.0013		0.0036	0.0013	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Vinyl chloride	<0.00064		0.0015	0.00064	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1
Xylenes, Total	<0.00047		0.0029	0.00047	mg/Kg	✳	12/23/20 17:29	12/31/20 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	12/23/20 17:29	12/31/20 17:55	1
Dibromofluoromethane	102		75 - 126	12/23/20 17:29	12/31/20 17:55	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	12/23/20 17:29	12/31/20 17:55	1
Toluene-d8 (Surr)	92		75 - 124	12/23/20 17:29	12/31/20 17:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.037	0.0068	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
Acenaphthylene	<0.0050		0.037	0.0050	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
Benzo[a]anthracene	<0.0051		0.037	0.0051	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (7-13)

Lab Sample ID: 500-192922-2

Date Collected: 12/22/20 09:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0073		0.037	0.0073	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Dibenz(a,h)anthracene	<0.0073		0.037	0.0073	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2,4-Dichlorophenol	<0.090		0.37	0.090	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Fluoranthene	<0.0070		0.037	0.0070	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.037	0.0098	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☆	12/31/20 08:12	12/31/20 18:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (7-13)

Lab Sample ID: 500-192922-2

Date Collected: 12/22/20 09:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
Phenanthrene	<0.0053		0.037	0.0053	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
Phenol	<0.084		0.19	0.084	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
Pyrene	0.013	J	0.037	0.0075	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	✳	12/31/20 08:12	12/31/20 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145				12/31/20 08:12	12/31/20 18:52	1
2-Fluorophenol	74		31 - 166				12/31/20 08:12	12/31/20 18:52	1
Nitrobenzene-d5	84		37 - 147				12/31/20 08:12	12/31/20 18:52	1
Phenol-d5	75		30 - 153				12/31/20 08:12	12/31/20 18:52	1
Terphenyl-d14	82		42 - 157				12/31/20 08:12	12/31/20 18:52	1
2,4,6-Tribromophenol	64		31 - 143				12/31/20 08:12	12/31/20 18:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.1	0.21	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Arsenic	6.5		0.54	0.19	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Barium	39		0.54	0.062	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Beryllium	0.66		0.22	0.051	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Cadmium	0.060	J	0.11	0.020	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Chromium	19		0.54	0.27	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Cobalt	12		0.27	0.071	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Copper	23		0.54	0.15	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Iron	20000		11	5.6	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Lead	18		1.4	0.63	mg/Kg	✳	12/30/20 06:38	01/05/21 21:02	5
Magnesium	30000		5.4	2.7	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Calcium	72000	B	54	9.2	mg/Kg	✳	12/30/20 06:38	01/05/21 21:02	5
Manganese	320		0.54	0.079	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Nickel	33		0.54	0.16	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Selenium	<0.32		0.54	0.32	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Silver	<0.070		0.27	0.070	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Thallium	0.66		0.54	0.27	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Vanadium	22		0.27	0.064	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Zinc	71		1.1	0.48	mg/Kg	✳	12/30/20 06:38	01/05/21 20:59	1
Potassium	3100		27	9.6	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1
Sodium	330		54	8.0	mg/Kg	✳	12/30/20 06:38	01/04/21 18:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 22:47	1
Barium	0.45	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 01:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 01:17	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 22:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (7-13)

Lab Sample ID: 500-192922-2

Date Collected: 12/22/20 09:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	600		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 01:17	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:47	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:47	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:47	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 22:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 19:19	1
Magnesium	38		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:17	1
Manganese	1.9		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 01:17	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/07/21 19:19	1
Potassium	2.8		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:17	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 19:19	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:47	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:47	1
Zinc	<0.020	*+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 22:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.026		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 03:14	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0059	mg/Kg	✱	12/30/20 13:05	12/31/20 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.27	0.14	mg/Kg	✱	12/29/20 14:12	12/29/20 16:28	1
pH	8.0		0.2	0.2	SU			12/28/20 17:54	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

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)
500-192922-1	3972-COV-21-B01 (0-7)	87	102	90	92
500-192922-2	3972-COV-21-B01 (7-13)	91	102	93	92
LCS 500-579222/4	Lab Control Sample	87	88	76	96
LCS 500-579222/5	Lab Control Sample Dup	89	90	77	94
MB 500-579222/7	Method Blank	93	96	84	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-192922-1	3972-COV-21-B01 (0-7)	92	88	97	91	97	95
500-192922-1 MS	3972-COV-21-B01 (0-7)	98	89	99	90	85	75
500-192922-1 MSD	3972-COV-21-B01 (0-7)	97	93	99	93	92	89
500-192922-2	3972-COV-21-B01 (7-13)	85	74	84	75	82	64
LCS 500-579275/2-A	Lab Control Sample	119	81	107	95	99	82
MB 500-579275/1-A	Method Blank	101	72	100	86	104	62

Surrogate Legend

FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14
 TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579222/7

Matrix: Solid

Analysis Batch: 579222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/31/20 11:07	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/31/20 11:07	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/31/20 11:07	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/31/20 11:07	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/31/20 11:07	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/31/20 11:07	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/31/20 11:07	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/31/20 11:07	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/31/20 11:07	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/31/20 11:07	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/31/20 11:07	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/31/20 11:07	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/31/20 11:07	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/31/20 11:07	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/31/20 11:07	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/31/20 11:07	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/31/20 11:07	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/31/20 11:07	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/31/20 11:07	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/31/20 11:07	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/31/20 11:07	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/31/20 11:07	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/31/20 11:07	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/31/20 11:07	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/31/20 11:07	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/31/20 11:07	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/31/20 11:07	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/31/20 11:07	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/31/20 11:07	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/31/20 11:07	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/31/20 11:07	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/31/20 11:07	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/31/20 11:07	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/31/20 11:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		75 - 131		12/31/20 11:07	1
Dibromofluoromethane	96		75 - 126		12/31/20 11:07	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		12/31/20 11:07	1
Toluene-d8 (Surr)	91		75 - 124		12/31/20 11:07	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579222/4

Matrix: Solid

Analysis Batch: 579222

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	0.0413		mg/Kg		83	40 - 150
Benzene	0.0500	0.0499		mg/Kg		100	70 - 125
Bromodichloromethane	0.0500	0.0446		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0444		mg/Kg		89	68 - 136
Bromomethane	0.0500	0.0411		mg/Kg		82	70 - 130
2-Butanone (MEK)	0.0500	0.0312		mg/Kg		62	47 - 138
Carbon disulfide	0.0500	0.0533		mg/Kg		107	70 - 129
Carbon tetrachloride	0.0500	0.0528		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0505		mg/Kg		101	50 - 150
Chloroethane	0.0500	0.0537		mg/Kg		107	75 - 125
Chloroform	0.0500	0.0464		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0458		mg/Kg		92	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0398		mg/Kg		80	70 - 125
Dibromochloromethane	0.0500	0.0480		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0555		mg/Kg		111	70 - 125
1,2-Dichloroethane	0.0500	0.0410		mg/Kg		82	70 - 130
1,1-Dichloroethene	0.0500	0.0519		mg/Kg		104	70 - 120
1,2-Dichloropropane	0.0500	0.0515		mg/Kg		103	70 - 125
Ethylbenzene	0.0500	0.0529		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0338		mg/Kg		68	48 - 146
Methylene Chloride	0.0500	0.0455		mg/Kg		91	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0321		mg/Kg		64	50 - 148
Methyl tert-butyl ether	0.0500	0.0362		mg/Kg		72	50 - 140
Styrene	0.0500	0.0502		mg/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0390		mg/Kg		78	70 - 122
Tetrachloroethene	0.0500	0.0526		mg/Kg		105	70 - 124
Toluene	0.0500	0.0517		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0526		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0376		mg/Kg		75	70 - 125
1,1,1-Trichloroethane	0.0500	0.0495		mg/Kg		99	70 - 128
1,1,2-Trichloroethane	0.0500	0.0432		mg/Kg		86	70 - 125
Trichloroethene	0.0500	0.0532		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0286		mg/Kg		57	40 - 153
Vinyl chloride	0.0500	0.0528		mg/Kg		106	70 - 125
Xylenes, Total	0.100	0.0976		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	87		75 - 131
Dibromofluoromethane	88		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-579222/5
Matrix: Solid
Analysis Batch: 579222

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	0.0382		mg/Kg		76	40 - 150	8	30
Benzene	0.0500	0.0520		mg/Kg		104	70 - 125	4	30
Bromodichloromethane	0.0500	0.0468		mg/Kg		94	67 - 129	5	30
Bromoform	0.0500	0.0482		mg/Kg		96	68 - 136	8	30
Bromomethane	0.0500	0.0395		mg/Kg		79	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0323		mg/Kg		65	47 - 138	4	30
Carbon disulfide	0.0500	0.0548		mg/Kg		110	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0551		mg/Kg		110	75 - 125	4	30
Chlorobenzene	0.0500	0.0531		mg/Kg		106	50 - 150	5	30
Chloroethane	0.0500	0.0529		mg/Kg		106	75 - 125	2	30
Chloroform	0.0500	0.0485		mg/Kg		97	57 - 135	4	30
Chloromethane	0.0500	0.0446		mg/Kg		89	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0426		mg/Kg		85	70 - 125	7	30
Dibromochloromethane	0.0500	0.0508		mg/Kg		102	69 - 125	6	30
1,1-Dichloroethane	0.0500	0.0575		mg/Kg		115	70 - 125	4	30
1,2-Dichloroethane	0.0500	0.0443		mg/Kg		89	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0538		mg/Kg		108	70 - 120	3	30
1,2-Dichloropropane	0.0500	0.0552		mg/Kg		110	70 - 125	7	30
Ethylbenzene	0.0500	0.0554		mg/Kg		111	61 - 136	5	30
2-Hexanone	0.0500	0.0362		mg/Kg		72	48 - 146	7	30
Methylene Chloride	0.0500	0.0466		mg/Kg		93	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0337		mg/Kg		67	50 - 148	5	30
Methyl tert-butyl ether	0.0500	0.0380		mg/Kg		76	50 - 140	5	30
Styrene	0.0500	0.0521		mg/Kg		104	70 - 125	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0419		mg/Kg		84	70 - 122	7	30
Tetrachloroethene	0.0500	0.0546		mg/Kg		109	70 - 124	4	30
Toluene	0.0500	0.0531		mg/Kg		106	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0410		mg/Kg		82	70 - 125	9	30
1,1,1-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 125	8	30
Trichloroethene	0.0500	0.0561		mg/Kg		112	70 - 125	5	30
Vinyl acetate	0.0500	0.0311		mg/Kg		62	40 - 153	8	30
Vinyl chloride	0.0500	0.0508		mg/Kg		102	70 - 125	4	30
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579275/1-A

Matrix: Solid

Analysis Batch: 579272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 579275

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/31/20 08:12	12/31/20 19:28	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-579275/1-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/31/20 08:12	12/31/20 19:28	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/31/20 08:12	12/31/20 19:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		43 - 145	12/31/20 08:12	12/31/20 19:28	1
2-Fluorophenol	72		31 - 166	12/31/20 08:12	12/31/20 19:28	1
Nitrobenzene-d5	100		37 - 147	12/31/20 08:12	12/31/20 19:28	1
Phenol-d5	86		30 - 153	12/31/20 08:12	12/31/20 19:28	1
Terphenyl-d14	104		42 - 157	12/31/20 08:12	12/31/20 19:28	1
2,4,6-Tribromophenol	62		31 - 143	12/31/20 08:12	12/31/20 19:28	1

Lab Sample ID: LCS 500-579275/2-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.30		mg/Kg		98	65 - 124
Acenaphthylene	1.33	1.24		mg/Kg		93	68 - 120
Anthracene	1.33	1.26		mg/Kg		94	70 - 114
Benzo[a]anthracene	1.33	1.15		mg/Kg		86	67 - 122
Benzo[a]pyrene	1.33	1.34		mg/Kg		100	65 - 133
Benzo[b]fluoranthene	1.33	1.33		mg/Kg		100	69 - 129
Benzo[g,h,i]perylene	1.33	1.30		mg/Kg		98	72 - 131
Benzo[k]fluoranthene	1.33	1.33		mg/Kg		100	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		93	60 - 112
Bis(2-chloroethyl)ether	1.33	1.28		mg/Kg		96	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.09		mg/Kg		82	72 - 131
4-Bromophenyl phenyl ether	1.33	1.23		mg/Kg		92	68 - 118
Butyl benzyl phthalate	1.33	1.05		mg/Kg		79	71 - 129
Carbazole	1.33	1.29		mg/Kg		97	65 - 142
4-Chloroaniline	1.33	1.06		mg/Kg		79	30 - 150
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	65 - 122
2-Chloronaphthalene	1.33	1.23		mg/Kg		93	69 - 114
2-Chlorophenol	1.33	1.08		mg/Kg		81	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579275/2-A

Matrix: Solid

Analysis Batch: 579272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 579275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Chrysene	1.33	1.16		mg/Kg		87	63 - 120
Dibenz(a,h)anthracene	1.33	1.35		mg/Kg		101	64 - 131
Dibenzofuran	1.33	1.27		mg/Kg		95	66 - 115
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		87	62 - 110
1,3-Dichlorobenzene	1.33	1.11		mg/Kg		83	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
3,3'-Dichlorobenzidine	1.33	0.716		mg/Kg		54	35 - 128
2,4-Dichlorophenol	1.33	1.13		mg/Kg		85	58 - 120
Diethyl phthalate	1.33	1.45		mg/Kg		109	58 - 120
2,4-Dimethylphenol	1.33	1.01		mg/Kg		76	60 - 110
Dimethyl phthalate	1.33	1.33		mg/Kg		99	69 - 116
Di-n-butyl phthalate	1.33	1.21		mg/Kg		91	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.454	J	mg/Kg		17	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		20	10 - 100
2,4-Dinitrotoluene	1.33	1.31		mg/Kg		98	69 - 124
2,6-Dinitrotoluene	1.33	1.32		mg/Kg		99	70 - 123
Di-n-octyl phthalate	1.33	1.12		mg/Kg		84	68 - 134
Fluoranthene	1.33	1.27		mg/Kg		95	62 - 120
Fluorene	1.33	1.26		mg/Kg		95	62 - 120
Hexachlorobenzene	1.33	1.34		mg/Kg		101	63 - 124
Hexachlorobutadiene	1.33	1.30		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.428	J	mg/Kg		32	10 - 133
Hexachloroethane	1.33	1.12		mg/Kg		84	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.35		mg/Kg		101	68 - 130
Isophorone	1.33	1.39		mg/Kg		104	55 - 110
2-Methylnaphthalene	1.33	1.14		mg/Kg		86	69 - 112
2-Methylphenol	1.33	1.26		mg/Kg		94	60 - 120
3 & 4 Methylphenol	1.33	1.10		mg/Kg		83	57 - 120
Naphthalene	1.33	1.23		mg/Kg		92	63 - 110
2-Nitroaniline	1.33	1.39		mg/Kg		105	57 - 124
3-Nitroaniline	1.33	0.973		mg/Kg		73	40 - 122
4-Nitroaniline	1.33	1.04		mg/Kg		78	60 - 160
Nitrobenzene	1.33	1.34		mg/Kg		100	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		86	60 - 120
4-Nitrophenol	2.67	2.85		mg/Kg		107	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.27		mg/Kg		95	56 - 118
N-Nitrosodiphenylamine	1.33	1.22		mg/Kg		92	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.37		mg/Kg		103	40 - 124
Pentachlorophenol	2.67	1.16		mg/Kg		44	13 - 112
Phenanthrene	1.33	1.24		mg/Kg		93	62 - 120
Phenol	1.33	1.16		mg/Kg		87	56 - 122
Pyrene	1.33	1.16		mg/Kg		87	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
2,4,6-Trichlorophenol	1.33	1.14		mg/Kg		86	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579275/2-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579275

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	119		43 - 145
2-Fluorophenol	81		31 - 166
Nitrobenzene-d5	107		37 - 147
Phenol-d5	95		30 - 153
Terphenyl-d14	99		42 - 157
2,4,6-Tribromophenol	82		31 - 143

Lab Sample ID: 500-192922-1 MS
Matrix: Solid
Analysis Batch: 579281

Client Sample ID: 3972-COV-21-B01 (0-7)
Prep Type: Total/NA
Prep Batch: 579275

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	<0.0068		1.52	1.28		mg/Kg	✱	84	65 - 124
Acenaphthylene	<0.0050		1.52	1.24		mg/Kg	✱	81	68 - 120
Anthracene	<0.0063		1.52	1.27		mg/Kg	✱	84	70 - 114
Benzo[a]anthracene	0.012	J	1.52	1.18		mg/Kg	✱	77	67 - 122
Benzo[a]pyrene	0.015	J	1.52	1.29		mg/Kg	✱	84	65 - 133
Benzo[b]fluoranthene	0.020	J	1.52	1.62		mg/Kg	✱	105	69 - 129
Benzo[g,h,i]perylene	<0.012	F1	1.52	0.680	F1	mg/Kg	✱	45	72 - 131
Benzo[k]fluoranthene	<0.011		1.52	1.77		mg/Kg	✱	117	68 - 127
Bis(2-chloroethoxy)methane	<0.039		1.52	1.26		mg/Kg	✱	83	60 - 112
Bis(2-chloroethyl)ether	<0.057		1.52	1.56		mg/Kg	✱	102	55 - 111
Bis(2-ethylhexyl) phthalate	<0.069		1.52	1.32		mg/Kg	✱	87	72 - 131
4-Bromophenyl phenyl ether	<0.050		1.52	1.36		mg/Kg	✱	90	68 - 118
Butyl benzyl phthalate	<0.072		1.52	1.24		mg/Kg	✱	82	71 - 129
Carbazole	<0.094		1.52	1.34		mg/Kg	✱	88	65 - 142
4-Chloroaniline	<0.18		1.52	1.10		mg/Kg	✱	72	30 - 150
4-Chloro-3-methylphenol	<0.13		1.52	1.43		mg/Kg	✱	94	65 - 122
2-Chloronaphthalene	<0.042		1.52	1.35		mg/Kg	✱	89	69 - 114
2-Chlorophenol	<0.064		1.52	1.27		mg/Kg	✱	83	64 - 110
4-Chlorophenyl phenyl ether	<0.044		1.52	1.32		mg/Kg	✱	86	62 - 119
Chrysene	0.020	J	1.52	1.20		mg/Kg	✱	78	63 - 120
Dibenz(a,h)anthracene	<0.0073	F1	1.52	0.818	F1	mg/Kg	✱	54	64 - 131
Dibenzofuran	<0.044		1.52	1.39		mg/Kg	✱	91	66 - 115
1,2-Dichlorobenzene	<0.045		1.52	1.15		mg/Kg	✱	75	62 - 110
1,3-Dichlorobenzene	<0.043		1.52	1.08		mg/Kg	✱	71	60 - 110
1,4-Dichlorobenzene	<0.048		1.52	1.08		mg/Kg	✱	71	61 - 110
3,3'-Dichlorobenzidine	<0.053	F1	1.52	0.521	F1	mg/Kg	✱	34	35 - 128
2,4-Dichlorophenol	<0.090		1.52	1.30		mg/Kg	✱	85	58 - 120
Diethyl phthalate	<0.064		1.52	1.48		mg/Kg	✱	97	58 - 120
2,4-Dimethylphenol	<0.14		1.52	1.29		mg/Kg	✱	85	60 - 110
Dimethyl phthalate	<0.049		1.52	1.30		mg/Kg	✱	85	69 - 116
Di-n-butyl phthalate	<0.058		1.52	1.32		mg/Kg	✱	87	65 - 120
4,6-Dinitro-2-methylphenol	<0.30		3.05	0.556	J	mg/Kg	✱	18	10 - 110
2,4-Dinitrophenol	<0.66	F1	3.05	<0.67	F1	mg/Kg	✱	0	10 - 100
2,4-Dinitrotoluene	<0.060		1.52	1.38		mg/Kg	✱	91	69 - 124
2,6-Dinitrotoluene	<0.074		1.52	1.28		mg/Kg	✱	84	70 - 123
Di-n-octyl phthalate	<0.062		1.52	1.30		mg/Kg	✱	86	68 - 134

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-192922-1 MS

Matrix: Solid

Analysis Batch: 579281

Client Sample ID: 3972-COV-21-B01 (0-7)

Prep Type: Total/NA

Prep Batch: 579275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	0.021	J	1.52	1.25		mg/Kg	☼	81	62 - 120
Fluorene	<0.0053		1.52	1.32		mg/Kg	☼	87	62 - 120
Hexachlorobenzene	<0.0088		1.52	1.19		mg/Kg	☼	78	63 - 124
Hexachlorobutadiene	<0.059		1.52	1.39		mg/Kg	☼	91	56 - 120
Hexachlorocyclopentadiene	<0.22	F1	1.52	<0.22	F1	mg/Kg	☼	0	10 - 133
Hexachloroethane	<0.057		1.52	1.07		mg/Kg	☼	70	60 - 114
Indeno[1,2,3-cd]pyrene	<0.0098	F1	1.52	0.783	F1	mg/Kg	☼	51	68 - 130
Isophorone	<0.042		1.52	1.34		mg/Kg	☼	88	55 - 110
2-Methylnaphthalene	0.011	J	1.52	1.31		mg/Kg	☼	85	69 - 112
2-Methylphenol	<0.061		1.52	1.25		mg/Kg	☼	82	60 - 120
3 & 4 Methylphenol	<0.063		1.52	1.33		mg/Kg	☼	87	57 - 120
Naphthalene	<0.0058		1.52	1.23		mg/Kg	☼	81	63 - 110
2-Nitroaniline	<0.051		1.52	1.75		mg/Kg	☼	115	57 - 124
3-Nitroaniline	<0.12		1.52	0.931		mg/Kg	☼	61	40 - 122
4-Nitroaniline	<0.16		1.52	1.05		mg/Kg	☼	69	60 - 160
Nitrobenzene	<0.0094		1.52	1.42		mg/Kg	☼	93	60 - 116
2-Nitrophenol	<0.089		1.52	1.23		mg/Kg	☼	81	60 - 120
4-Nitrophenol	<0.36	F1	3.05	3.84	F1	mg/Kg	☼	126	30 - 122
N-Nitrosodi-n-propylamine	<0.046		1.52	1.50		mg/Kg	☼	98	56 - 118
N-Nitrosodiphenylamine	<0.045		1.52	1.22		mg/Kg	☼	80	65 - 112
2,2'-oxybis[1-chloropropane]	<0.044		1.52	1.76		mg/Kg	☼	115	40 - 124
Pentachlorophenol	<0.61		3.05	0.965		mg/Kg	☼	32	13 - 112
Phenanthrene	0.034	J	1.52	1.30		mg/Kg	☼	83	62 - 120
Phenol	<0.084		1.52	1.32		mg/Kg	☼	87	56 - 122
Pyrene	0.026	J	1.52	1.21		mg/Kg	☼	78	61 - 128
1,2,4-Trichlorobenzene	<0.041		1.52	1.26		mg/Kg	☼	83	66 - 117
2,4,5-Trichlorophenol	<0.086		1.52	1.39		mg/Kg	☼	91	50 - 120
2,4,6-Trichlorophenol	<0.13		1.52	1.37		mg/Kg	☼	90	57 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorobiphenyl	98		43 - 145
2-Fluorophenol	89		31 - 166
Nitrobenzene-d5	99		37 - 147
Phenol-d5	90		30 - 153
Terphenyl-d14	85		42 - 157
2,4,6-Tribromophenol	75		31 - 143

Lab Sample ID: 500-192922-1 MSD

Matrix: Solid

Analysis Batch: 579281

Client Sample ID: 3972-COV-21-B01 (0-7)

Prep Type: Total/NA

Prep Batch: 579275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<0.0068		1.52	1.39		mg/Kg	☼	91	65 - 124	8	30
Acenaphthylene	<0.0050		1.52	1.33		mg/Kg	☼	88	68 - 120	8	30
Anthracene	<0.0063		1.52	1.35		mg/Kg	☼	89	70 - 114	6	30
Benzo[a]anthracene	0.012	J	1.52	1.22		mg/Kg	☼	79	67 - 122	3	30
Benzo[a]pyrene	0.015	J	1.52	1.33		mg/Kg	☼	86	65 - 133	3	30
Benzo[b]fluoranthene	0.020	J	1.52	1.62		mg/Kg	☼	105	69 - 129	1	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-192922-1 MSD

Client Sample ID: 3972-COV-21-B01 (0-7)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 579281

Prep Batch: 579275

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzo[g,h,i]perylene	<0.012	F1	1.52	0.685	F1	mg/Kg	☼	45	72 - 131	1	30
Benzo[k]fluoranthene	<0.011		1.52	1.63		mg/Kg	☼	107	68 - 127	9	30
Bis(2-chloroethoxy)methane	<0.039		1.52	1.30		mg/Kg	☼	85	60 - 112	3	30
Bis(2-chloroethyl)ether	<0.057		1.52	1.55		mg/Kg	☼	102	55 - 111	0	30
Bis(2-ethylhexyl) phthalate	<0.069		1.52	1.43		mg/Kg	☼	94	72 - 131	8	30
4-Bromophenyl phenyl ether	<0.050		1.52	1.43		mg/Kg	☼	94	68 - 118	5	30
Butyl benzyl phthalate	<0.072		1.52	1.34		mg/Kg	☼	88	71 - 129	7	30
Carbazole	<0.094		1.52	1.45		mg/Kg	☼	95	65 - 142	8	30
4-Chloroaniline	<0.18		1.52	1.11		mg/Kg	☼	73	30 - 150	1	30
4-Chloro-3-methylphenol	<0.13		1.52	1.42		mg/Kg	☼	93	65 - 122	1	30
2-Chloronaphthalene	<0.042		1.52	1.38		mg/Kg	☼	90	69 - 114	2	30
2-Chlorophenol	<0.064		1.52	1.28		mg/Kg	☼	84	64 - 110	1	30
4-Chlorophenyl phenyl ether	<0.044		1.52	1.42		mg/Kg	☼	93	62 - 119	7	30
Chrysene	0.020	J	1.52	1.22		mg/Kg	☼	79	63 - 120	2	30
Dibenz(a,h)anthracene	<0.0073	F1	1.52	0.794	F1	mg/Kg	☼	52	64 - 131	3	30
Dibenzofuran	<0.044		1.52	1.45		mg/Kg	☼	95	66 - 115	4	30
1,2-Dichlorobenzene	<0.045		1.52	1.20		mg/Kg	☼	79	62 - 110	5	30
1,3-Dichlorobenzene	<0.043		1.52	1.13		mg/Kg	☼	74	60 - 110	5	30
1,4-Dichlorobenzene	<0.048		1.52	1.14		mg/Kg	☼	75	61 - 110	5	30
3,3'-Dichlorobenzidine	<0.053	F1	1.52	0.445	F1	mg/Kg	☼	29	35 - 128	16	30
2,4-Dichlorophenol	<0.090		1.52	1.38		mg/Kg	☼	91	58 - 120	6	30
Diethyl phthalate	<0.064		1.52	1.52		mg/Kg	☼	100	58 - 120	2	30
2,4-Dimethylphenol	<0.14		1.52	1.39		mg/Kg	☼	92	60 - 110	8	30
Dimethyl phthalate	<0.049		1.52	1.34		mg/Kg	☼	88	69 - 116	3	30
Di-n-butyl phthalate	<0.058		1.52	1.37		mg/Kg	☼	90	65 - 120	3	30
4,6-Dinitro-2-methylphenol	<0.30		3.04	0.423	J	mg/Kg	☼	14	10 - 110	27	30
2,4-Dinitrophenol	<0.66	F1	3.04	<0.67	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.060		1.52	1.42		mg/Kg	☼	94	69 - 124	3	30
2,6-Dinitrotoluene	<0.074		1.52	1.33		mg/Kg	☼	87	70 - 123	4	30
Di-n-octyl phthalate	<0.062		1.52	1.24		mg/Kg	☼	81	68 - 134	5	30
Fluoranthene	0.021	J	1.52	1.25		mg/Kg	☼	80	62 - 120	0	30
Fluorene	<0.0053		1.52	1.42		mg/Kg	☼	93	62 - 120	7	30
Hexachlorobenzene	<0.0088		1.52	1.35		mg/Kg	☼	88	63 - 124	13	30
Hexachlorobutadiene	<0.059		1.52	1.42		mg/Kg	☼	93	56 - 120	2	30
Hexachlorocyclopentadiene	<0.22	F1	1.52	<0.22	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.057		1.52	0.990		mg/Kg	☼	65	60 - 114	8	30
Indeno[1,2,3-cd]pyrene	<0.0098	F1	1.52	0.795	F1	mg/Kg	☼	52	68 - 130	2	30
Isophorone	<0.042		1.52	1.36		mg/Kg	☼	90	55 - 110	2	30
2-Methylnaphthalene	0.011	J	1.52	1.37		mg/Kg	☼	89	69 - 112	4	30
2-Methylphenol	<0.061		1.52	1.33		mg/Kg	☼	88	60 - 120	6	30
3 & 4 Methylphenol	<0.063		1.52	1.35		mg/Kg	☼	89	57 - 120	2	30
Naphthalene	<0.0058		1.52	1.31		mg/Kg	☼	86	63 - 110	6	30
2-Nitroaniline	<0.051		1.52	1.69		mg/Kg	☼	111	57 - 124	4	30
3-Nitroaniline	<0.12		1.52	1.06		mg/Kg	☼	69	40 - 122	13	30
4-Nitroaniline	<0.16		1.52	1.13		mg/Kg	☼	74	60 - 160	8	30
Nitrobenzene	<0.0094		1.52	1.43		mg/Kg	☼	94	60 - 116	1	30
2-Nitrophenol	<0.089		1.52	1.31		mg/Kg	☼	86	60 - 120	6	30
4-Nitrophenol	<0.36	F1	3.04	3.50		mg/Kg	☼	115	30 - 122	9	30
N-Nitrosodi-n-propylamine	<0.046		1.52	1.46		mg/Kg	☼	96	56 - 118	3	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-192922-1 MSD

Client Sample ID: 3972-COV-21-B01 (0-7)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 579281

Prep Batch: 579275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiphenylamine	<0.045		1.52	1.33		mg/Kg	☼	88	65 - 112	9	30
2,2'-oxybis[1-chloropropane]	<0.044		1.52	1.60		mg/Kg	☼	105	40 - 124	9	30
Pentachlorophenol	<0.61		3.04	1.26		mg/Kg	☼	41	13 - 112	26	30
Phenanthrene	0.034	J	1.52	1.38		mg/Kg	☼	88	62 - 120	6	30
Phenol	<0.084		1.52	1.37		mg/Kg	☼	90	56 - 122	4	30
Pyrene	0.026	J	1.52	1.34		mg/Kg	☼	86	61 - 128	10	30
1,2,4-Trichlorobenzene	<0.041		1.52	1.32		mg/Kg	☼	87	66 - 117	4	30
2,4,5-Trichlorophenol	<0.086		1.52	1.43		mg/Kg	☼	94	50 - 120	3	30
2,4,6-Trichlorophenol	<0.13		1.52	1.38		mg/Kg	☼	90	57 - 120	1	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	97		43 - 145
2-Fluorophenol	93		31 - 166
Nitrobenzene-d5	99		37 - 147
Phenol-d5	93		30 - 153
Terphenyl-d14	92		42 - 157
2,4,6-Tribromophenol	89		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-579019/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 579576

Prep Batch: 579019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.39		2.0	0.39	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Barium	<0.11		1.0	0.11	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Copper	<0.28		1.0	0.28	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Iron	<10		20	10	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Lead	<0.23		0.50	0.23	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Magnesium	<5.0		10	5.0	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Calcium	12.9	J	20	3.4	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Silver	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Potassium	<18		50	18	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Sodium	<15		100	15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-579019/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579019
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.3		mg/Kg		89	80 - 120
Arsenic	10.0	9.74		mg/Kg		97	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.95		mg/Kg		99	80 - 120
Cadmium	5.00	4.75		mg/Kg		95	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Cobalt	50.0	50.7		mg/Kg		101	80 - 120
Copper	25.0	24.6		mg/Kg		99	80 - 120
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.83		mg/Kg		98	80 - 120
Magnesium	1000	994		mg/Kg		99	80 - 120
Calcium	1000	1030		mg/Kg		103	80 - 120
Manganese	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	50.0		mg/Kg		100	80 - 120
Selenium	10.0	8.85		mg/Kg		89	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Thallium	10.0	9.95		mg/Kg		100	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	49.6		mg/Kg		99	80 - 120
Potassium	1000	965		mg/Kg		97	80 - 120
Sodium	1000	984		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Nickel	0.500	0.541		mg/L		108	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Zinc	0.500	0.606	*+	mg/L		121	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120

Lab Sample ID: LCS 500-579535/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.491		mg/L		98	80 - 120

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.050		0.50	0.050	mg/L		01/04/21 17:53	01/05/21 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/05/21 23:59	1
Magnesium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Calcium	<0.50		5.0	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/05/21 23:59	1
Potassium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:27	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Zinc	0.0239	J	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:27	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 17:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 17:55	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-579349/1-B
 Matrix: Solid
 Analysis Batch: 579797

Client Sample ID: Method Blank
 Prep Type: SPLP East
 Prep Batch: 579535

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:58	01/06/21 01:52	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579532/2-A
 Matrix: Solid
 Analysis Batch: 579700

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.492		mg/L		98	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LB 500-579346/1-C
 Matrix: Solid
 Analysis Batch: 579700

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:39	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579477/12-A
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 579477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:01	1

Lab Sample ID: LCS 500-579477/14-A
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-579346/1-B
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579477

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:03	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-579093/12-A
 Matrix: Solid
 Analysis Batch: 579294

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 579093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/30/20 13:05	12/31/20 08:17	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: LCS 500-579093/13-A
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579093
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578930/1-A
Matrix: Solid
Analysis Batch: 579127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/29/20 14:12	12/29/20 16:00	1

Lab Sample ID: HLCS 500-578930/2-A
Matrix: Solid
Analysis Batch: 579127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578930
 %Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.4		mg/Kg		95	90 - 110

Lab Sample ID: LCS 500-578930/3-A
Matrix: Solid
Analysis Batch: 579127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578930
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.70		mg/Kg		113	85 - 115

Lab Sample ID: LLCS 500-578930/4-A
Matrix: Solid
Analysis Batch: 579127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578930
 %Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.35		mg/Kg		113	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

GC/MS VOA

Prep Batch: 578788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	5035	
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	5035	

Analysis Batch: 579222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	8260B	578788
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	8260B	578788
MB 500-579222/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-579222/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-579222/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Analysis Batch: 579272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-579275/1-A	Method Blank	Total/NA	Solid	8270D	579275
LCS 500-579275/2-A	Lab Control Sample	Total/NA	Solid	8270D	579275

Prep Batch: 579275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	3541	
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	3541	
MB 500-579275/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-579275/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-192922-1 MS	3972-COV-21-B01 (0-7)	Total/NA	Solid	3541	
500-192922-1 MSD	3972-COV-21-B01 (0-7)	Total/NA	Solid	3541	

Analysis Batch: 579281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	8270D	579275
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	8270D	579275
500-192922-1 MS	3972-COV-21-B01 (0-7)	Total/NA	Solid	8270D	579275
500-192922-1 MSD	3972-COV-21-B01 (0-7)	Total/NA	Solid	8270D	579275

Metals

Prep Batch: 579019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	3050B	
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	3050B	
MB 500-579019/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 579093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	7471B	
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	7471B	
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Metals

Analysis Batch: 579294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	7471B	579093
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	7471B	579093
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	579093
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	579093

Leach Batch: 579346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	TCLP	Solid	1311	
500-192922-2	3972-COV-21-B01 (7-13)	TCLP	Solid	1311	
LB 500-579346/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579346/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 579349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	SPLP East	Solid	1312	
500-192922-2	3972-COV-21-B01 (7-13)	SPLP East	Solid	1312	
LB 500-579349/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 579477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	TCLP	Solid	7470A	579346
500-192922-2	3972-COV-21-B01 (7-13)	TCLP	Solid	7470A	579346
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579346
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	TCLP	Solid	3010A	579346
500-192922-2	3972-COV-21-B01 (7-13)	TCLP	Solid	3010A	579346
LB 500-579346/1-C	Method Blank	TCLP	Solid	3010A	579346
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 579535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	SPLP East	Solid	3010A	579349
500-192922-2	3972-COV-21-B01 (7-13)	SPLP East	Solid	3010A	579349
LB 500-579349/1-B	Method Blank	SPLP East	Solid	3010A	579349
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	6010B	579019
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	6010B	579019
MB 500-579019/1-A	Method Blank	Total/NA	Solid	6010B	579019
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	6010B	579019

Analysis Batch: 579681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	TCLP	Solid	7470A	579477
500-192922-2	3972-COV-21-B01 (7-13)	TCLP	Solid	7470A	579477

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Metals (Continued)

Analysis Batch: 579681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579477
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	579477
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	579477

Analysis Batch: 579700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	TCLP	Solid	6020A	579532
500-192922-2	3972-COV-21-B01 (7-13)	TCLP	Solid	6020A	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6020A	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6020A	579532

Analysis Batch: 579796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	6010B	579019
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	6010B	579019
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	6010B	579019
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	6010B	579019

Analysis Batch: 579797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	SPLP East	Solid	6010B	579535
500-192922-1	3972-COV-21-B01 (0-7)	TCLP	Solid	6010B	579532
500-192922-2	3972-COV-21-B01 (7-13)	SPLP East	Solid	6010B	579535
500-192922-2	3972-COV-21-B01 (7-13)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LB 500-579349/1-B	Method Blank	SPLP East	Solid	6010B	579535
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532
LCS 500-579535/2-A	Lab Control Sample	Total/NA	Solid	6010B	579535

Analysis Batch: 579995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	TCLP	Solid	6010B	579532
500-192922-2	3972-COV-21-B01 (7-13)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Analysis Batch: 580182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	TCLP	Solid	6010B	579532
500-192922-2	3972-COV-21-B01 (7-13)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

General Chemistry

Analysis Batch: 578421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	Moisture	
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	Moisture	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

General Chemistry

Analysis Batch: 578810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	9045D	
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	9045D	
LCS 500-578810/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578810/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	9010C	
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	9010C	
MB 500-578930/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578930/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578930/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578930/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 579127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192922-1	3972-COV-21-B01 (0-7)	Total/NA	Solid	9012B	578930
500-192922-2	3972-COV-21-B01 (7-13)	Total/NA	Solid	9012B	578930
MB 500-578930/1-A	Method Blank	Total/NA	Solid	9012B	578930
HLCS 500-578930/2-A	Lab Control Sample	Total/NA	Solid	9012B	578930
LCS 500-578930/3-A	Lab Control Sample	Total/NA	Solid	9012B	578930
LLCS 500-578930/4-A	Lab Control Sample	Total/NA	Solid	9012B	578930

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (0-7)

Lab Sample ID: 500-192922-1

Date Collected: 12/22/20 09:00

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 03:10	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 01:14	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 22:38	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 19:15	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:19	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:54	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578810	12/28/20 17:51	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578421	12/24/20 07:45	LWN	TAL CHI

Client Sample ID: 3972-COV-21-B01 (0-7)

Lab Sample ID: 500-192922-1

Date Collected: 12/22/20 09:00

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578788	12/23/20 17:29	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579222	12/31/20 17:29	PMF	TAL CHI
Total/NA	Prep	3541			579275	12/31/20 08:12	JD	TAL CHI
Total/NA	Analysis	8270D		1	579281	12/31/20 19:15	AJD	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 18:16	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579796	01/05/21 20:52	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579796	01/05/21 20:56	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 09:18	MJG	TAL CHI
Total/NA	Prep	9010C			578930	12/29/20 14:12	PSP	TAL CHI
Total/NA	Analysis	9012B		1	579127	12/29/20 16:26	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Client Sample ID: 3972-COV-21-B01 (7-13)

Lab Sample ID: 500-192922-2

Date Collected: 12/22/20 09:05

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			579349	12/31/20 18:34	CMS	TAL CHI
SPLP East	Prep	3010A			579535	01/04/21 17:58	BDE	TAL CHI
SPLP East	Analysis	6010B		1	579797	01/06/21 03:14	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 01:17	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 22:47	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 19:19	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:21	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:56	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578810	12/28/20 17:54	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578421	12/24/20 07:45	LWN	TAL CHI

Client Sample ID: 3972-COV-21-B01 (7-13)

Lab Sample ID: 500-192922-2

Date Collected: 12/22/20 09:05

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578788	12/23/20 17:29	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579222	12/31/20 17:55	PMF	TAL CHI
Total/NA	Prep	3541			579275	12/31/20 08:12	JD	TAL CHI
Total/NA	Analysis	8270D		1	579281	12/31/20 18:52	AJD	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 18:19	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579796	01/05/21 20:59	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		5	579796	01/05/21 21:02	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 09:20	MJG	TAL CHI
Total/NA	Prep	9010C			578930	12/29/20 14:12	PSP	TAL CHI
Total/NA	Analysis	9012B		1	579127	12/29/20 16:28	PSP	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192922-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192922-1	3972-COV-21-B01 (0-7)	Solid	12/22/20 09:00	12/22/20 17:22	
500-192922-2	3972-COV-21-B01 (7-13)	Solid	12/22/20 09:05	12/22/20 17:22	

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500-192922 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 142 Exchange Blvd
Glendale Heights, IL
Phone: 630-445-0160
Fax:
E-Mail: Matt.Weiss@Terracon.com

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-192922

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 3.8 → 3.5

Client		Client Project #		Preservative		Parameter		Sampling		# of Containers		Matrix		Comments	
Lab ID	MS/MSD	Sample ID	Date	Time											
Terracon		11202011W												Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		11202011W		Parameter											
Project Location/State		Humber Park, IL		Lab Project #											
Sampler		J. G. A. T.		Lab PM											
						VOC'S		SUC'S		Total 23		Inorganics / pH			
										TCUP 23		Inorganics			
										SPLP 23		Inorganics			
1		3972-COV-21-B01(07)	12/22/20	0900	6	Su.	X	X	X	X	X	X	X	X	21-B01-(0-7)
2		3972-COV-21-B01(7+3)	12/22/20	0905	6	Su.	X	X	X	X	X	X	X	X	

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Vanost</u>	Company <u>Terracon</u>	Date <u>12/22/20</u>	Time <u>1610</u>	Received By <u>J. Neal</u>	Company <u>EA</u>	Date <u>12/22/20</u>	Time <u>1610</u>
Relinquished By <u>J. Neal</u>	Company <u>EA</u>	Date <u>12/22/20</u>	Time <u>1722</u>	Received By <u>Shirley Scott</u>	Company <u>EA-CPE</u>	Date <u>12/23/20</u>	Time <u>0800</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments
* NO Aluminum
* Hold SPLP 23 Inorganics per
Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192922-1

Login Number: 192922

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Barrington Road (Southbound) IDOT STA 55+98 to 57+45 (ISGS Sites 3972-COV-23 and 3972-COV-24)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: HANover

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.00404 Longitude: - 88.14485

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 101

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil from boring 3972-COV-23-B01 was sampled adjacent to ISGS Site Nos 3972-COV-23 and 3972-COV-24. See Exhibit 3 and Table 37 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Eurofins TestAmerica, Chicago Report No. J192918-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc.
Street Address: 192 Exchange Boulevard
City: Glendale Heights State: IL Zip Code: 60139
Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/18/21
Date:



P.E. or L.P.G. Seal:

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-23)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-23-B01 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/22/2020
Semivolatile Organic Analytical Parameters						
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.022
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.035
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.053
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.021
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.018
Chrysene	mg/kg	1.2	2.7	88		0.033
Fluoranthene	mg/kg	2.7	4.1	3100		0.085
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.019
Phenanthrene	mg/kg	1.3	2.5	210		0.041
Pyrene	mg/kg	1.9	3.0	2300		0.057
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		10
Barium	mg/kg	---	110	1500		100
Cadmium	mg/kg	---	0.6	5.2		<0.023
Chromium, total	mg/kg	---	16.2	21		26
Lead	mg/kg	---	36	107		21
Mercury	mg/kg	---	0.06	0.89		0.046
Selenium	mg/kg	---	0.48	1.3		<0.37
Silver	mg/kg	---	0.55	4.4		<0.082
Antimony	mg/kg	---	4.0	5		0.68
Beryllium	mg/kg	---	0.59	22		1.0
Calcium	mg/kg	---	9,300	---		3000
Cobalt	mg/kg	---	8.9	20		17
Copper	mg/kg	---	19.6	2900		26
Cyanide	mg/kg	---	0.51	---		0.24
Iron	mg/kg	---	15,900	15000		28000
Magnesium	mg/kg	---	4,820	325000		5300
Manganese	mg/kg	---	636	630		560
Nickel	mg/kg	---	18	100		44
Potassium	mg/kg	---	1,268	---		2700
Sodium	mg/kg	---	130	---		180
Thallium	mg/kg	---	0.32	2.6		<0.32
Vanadium	mg/kg	---	25.2	550		39
Zinc	mg/kg	---	95	5100		86
pH			6.25	9		7.7

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-23)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-23-B01 (0-3)
		Chicago	MSAs		Sample Depth (feet)	(0-3)
					Date Collected	12/22/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.22
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		56
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		0.041
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		0.64
Magnesium,TCLP	mg/L	---	---	---		16
Manganese,TCLP	mg/L	---	---	---		0.011
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		0.92
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.035

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-192918-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
1/8/2021 11:16:14 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Job ID: 500-192918-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192918-1

Receipt

The sample was received on 12/22/2020 5:20 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010B: The continuing calibration verification (CCV) at line 63 was outside the control limits for Zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 3972-COV-23-B01 (0-3) (500-192918-1) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-579346 and 500-579532 and analytical batch 500-579995 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

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: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Client Sample ID: 3972-COV-23-B01 (0-3)

Lab Sample ID: 500-192918-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.022	J	0.041	0.0055	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]pyrene	0.035	J	0.041	0.0079	mg/Kg	1	✳		8270D	Total/NA
Benzo[b]fluoranthene	0.053		0.041	0.0088	mg/Kg	1	✳		8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.041	0.013	mg/Kg	1	✳		8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.041	0.012	mg/Kg	1	✳		8270D	Total/NA
Chrysene	0.033	J	0.041	0.011	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.085		0.041	0.0076	mg/Kg	1	✳		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.041	0.011	mg/Kg	1	✳		8270D	Total/NA
Phenanthrene	0.041		0.041	0.0057	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.057		0.041	0.0081	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.68	J	1.3	0.25	mg/Kg	1	✳		6010B	Total/NA
Arsenic	10		0.63	0.22	mg/Kg	1	✳		6010B	Total/NA
Barium	100		0.63	0.072	mg/Kg	1	✳		6010B	Total/NA
Beryllium	1.0		0.25	0.059	mg/Kg	1	✳		6010B	Total/NA
Chromium	26		0.63	0.31	mg/Kg	1	✳		6010B	Total/NA
Cobalt	17		0.32	0.083	mg/Kg	1	✳		6010B	Total/NA
Copper	26		0.63	0.18	mg/Kg	1	✳		6010B	Total/NA
Iron	28000		13	6.6	mg/Kg	1	✳		6010B	Total/NA
Lead	21		0.32	0.15	mg/Kg	1	✳		6010B	Total/NA
Magnesium	5300	B	6.3	3.1	mg/Kg	1	✳		6010B	Total/NA
Calcium	3000	B	13	2.1	mg/Kg	1	✳		6010B	Total/NA
Manganese	560		0.63	0.092	mg/Kg	1	✳		6010B	Total/NA
Nickel	44		0.63	0.18	mg/Kg	1	✳		6010B	Total/NA
Vanadium	39		0.32	0.075	mg/Kg	1	✳		6010B	Total/NA
Zinc	86		1.3	0.56	mg/Kg	1	✳		6010B	Total/NA
Potassium	2700		32	11	mg/Kg	1	✳		6010B	Total/NA
Sodium	180		63	9.4	mg/Kg	1	✳		6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	56		5.0	0.50	mg/L	1			6010B	TCLP
Copper	0.041		0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.64		0.40	0.20	mg/L	1			6010B	TCLP
Magnesium	16		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	0.92	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.035	J B **	0.50	0.020	mg/L	1			6010B	TCLP
Mercury	0.046		0.020	0.0065	mg/Kg	1	✳		7471B	Total/NA
Cyanide, Total	0.24	J	0.29	0.14	mg/Kg	1	✳		9012B	Total/NA
pH	7.7		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Client Sample ID: 3972-COV-23-B01 (0-3)

Lab Sample ID: 500-192918-1

Date Collected: 12/22/20 13:35

Matrix: Solid

Date Received: 12/22/20 17:20

Percent Solids: 77.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
1,2-Dichloropropene	<0.00052		0.0020	0.00052	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	12/22/20 18:05	12/30/20 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	12/22/20 18:05	12/30/20 18:31	1
Dibromofluoromethane	101		75 - 126	12/22/20 18:05	12/30/20 18:31	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/22/20 18:05	12/30/20 18:31	1
Toluene-d8 (Surr)	90		75 - 124	12/22/20 18:05	12/30/20 18:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.041	0.0074	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Anthracene	<0.0069		0.041	0.0069	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Benzo[a]anthracene	0.022	J	0.041	0.0055	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Client Sample ID: 3972-COV-23-B01 (0-3)

Lab Sample ID: 500-192918-1

Date Collected: 12/22/20 13:35

Matrix: Solid

Date Received: 12/22/20 17:20

Percent Solids: 77.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.035	J	0.041	0.0079	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Benzo[b]fluoranthene	0.053		0.041	0.0088	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Benzo[g,h,i]perylene	0.021	J	0.041	0.013	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Benzo[k]fluoranthene	0.018	J	0.041	0.012	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Bis(2-chloroethyl)ether	<0.061		0.21	0.061	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Chrysene	0.033	J	0.041	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Dibenz(a,h)anthracene	<0.0079		0.041	0.0079	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
3,3'-Dichlorobenzidine	<0.057		0.21	0.057	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2,4-Dichlorophenol	<0.097		0.41	0.097	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Diethyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Di-n-butyl phthalate	<0.062		0.21	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2,4-Dinitrophenol	<0.72		0.83	0.72	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Fluoranthene	0.085		0.041	0.0076	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Hexachlorobenzene	<0.0095		0.083	0.0095	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Hexachlorobutadiene	<0.064		0.21	0.064	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Indeno[1,2,3-cd]pyrene	0.019	J	0.041	0.011	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2-Methylnaphthalene	<0.0075		0.083	0.0075	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
3 & 4 Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1
2-Nitrophenol	<0.097		0.41	0.097	mg/Kg	☼	12/30/20 07:24	12/30/20 22:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Client Sample ID: 3972-COV-23-B01 (0-3)

Lab Sample ID: 500-192918-1

Date Collected: 12/22/20 13:35

Matrix: Solid

Date Received: 12/22/20 17:20

Percent Solids: 77.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
N-Nitrosodi-n-propylamine	<0.050		0.083	0.050	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
Phenanthrene	0.041		0.041	0.0057	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
Phenol	<0.091		0.21	0.091	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
Pyrene	0.057		0.041	0.0081	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	✳	12/30/20 07:24	12/30/20 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				12/30/20 07:24	12/30/20 22:04	1
2-Fluorophenol	90		31 - 166				12/30/20 07:24	12/30/20 22:04	1
Nitrobenzene-d5	77		37 - 147				12/30/20 07:24	12/30/20 22:04	1
Phenol-d5	76		30 - 153				12/30/20 07:24	12/30/20 22:04	1
Terphenyl-d14	86		42 - 157				12/30/20 07:24	12/30/20 22:04	1
2,4,6-Tribromophenol	78		31 - 143				12/30/20 07:24	12/30/20 22:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.3	0.25	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Arsenic	10		0.63	0.22	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Barium	100		0.63	0.072	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Beryllium	1.0		0.25	0.059	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Cadmium	<0.023		0.13	0.023	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Chromium	26		0.63	0.31	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Cobalt	17		0.32	0.083	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Copper	26		0.63	0.18	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Iron	28000		13	6.6	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Lead	21		0.32	0.15	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Magnesium	5300	B	6.3	3.1	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Calcium	3000	B	13	2.1	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Manganese	560		0.63	0.092	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Nickel	44		0.63	0.18	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Selenium	<0.37		0.63	0.37	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Silver	<0.082		0.32	0.082	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Thallium	<0.32		0.63	0.32	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Vanadium	39		0.32	0.075	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Zinc	86		1.3	0.56	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Potassium	2700		32	11	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1
Sodium	180		63	9.4	mg/Kg	✳	12/29/20 19:05	01/04/21 19:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:57	1
Barium	0.22	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 00:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 00:36	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Client Sample ID: 3972-COV-23-B01 (0-3)

Lab Sample ID: 500-192918-1

Date Collected: 12/22/20 13:35

Matrix: Solid

Date Received: 12/22/20 17:20

Percent Solids: 77.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	56		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 00:36	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:57	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:57	1
Copper	0.041		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:57	1
Iron	0.64		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 18:32	1
Magnesium	16		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:36	1
Manganese	0.011	J	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 00:36	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:57	1
Potassium	0.92	J	2.5	0.50	mg/L		01/04/21 17:53	01/06/21 00:36	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 18:32	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:57	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:57	1
Zinc	0.035	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.020	0.0065	mg/Kg	⊛	12/30/20 13:05	12/31/20 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.24	J	0.29	0.14	mg/Kg	⊛	12/29/20 09:49	12/29/20 11:23	1
pH	7.7		0.2	0.2	SU			12/23/20 17:47	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192918-1	3972-COV-23-B01 (0-3)	85	101	91	90
LCS 500-579020/4	Lab Control Sample	85	90	77	94
LCS 500-579020/5	Lab Control Sample Dup	86	90	77	96
MB 500-579020/7	Method Blank	96	92	80	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192918-1	3972-COV-23-B01 (0-3)	75	90	77	76	86	78
LCS 500-579030/2-A	Lab Control Sample	93	102	91	91	85	112
MB 500-579030/1-A	Method Blank	85	105	89	85	87	97

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579020/7

Matrix: Solid

Analysis Batch: 579020

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/30/20 10:02	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/30/20 10:02	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/30/20 10:02	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/30/20 10:02	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/30/20 10:02	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/30/20 10:02	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/30/20 10:02	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/30/20 10:02	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/30/20 10:02	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/30/20 10:02	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/30/20 10:02	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/30/20 10:02	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/30/20 10:02	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/30/20 10:02	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/30/20 10:02	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/30/20 10:02	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/30/20 10:02	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/30/20 10:02	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/30/20 10:02	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/30/20 10:02	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/30/20 10:02	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/30/20 10:02	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/30/20 10:02	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/30/20 10:02	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/30/20 10:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		75 - 131		12/30/20 10:02	1
Dibromofluoromethane	92		75 - 126		12/30/20 10:02	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		12/30/20 10:02	1
Toluene-d8 (Surr)	92		75 - 124		12/30/20 10:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579020/4

Matrix: Solid

Analysis Batch: 579020

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	0.0504		mg/Kg		101	40 - 150
Benzene	0.0500	0.0511		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0457		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0465		mg/Kg		93	68 - 136
Bromomethane	0.0500	0.0432		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0401		mg/Kg		80	47 - 138
Carbon disulfide	0.0500	0.0547		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0500	0.0545		mg/Kg		109	75 - 125
Chlorobenzene	0.0500	0.0514		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0562		mg/Kg		112	75 - 125
Chloroform	0.0500	0.0482		mg/Kg		96	57 - 135
Chloromethane	0.0500	0.0526		mg/Kg		105	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0408		mg/Kg		82	70 - 125
Dibromochloromethane	0.0500	0.0494		mg/Kg		99	69 - 125
1,1-Dichloroethane	0.0500	0.0575		mg/Kg		115	70 - 125
1,2-Dichloroethane	0.0500	0.0435		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0542		mg/Kg		108	70 - 120
1,2-Dichloropropane	0.0500	0.0526		mg/Kg		105	70 - 125
Ethylbenzene	0.0500	0.0540		mg/Kg		108	61 - 136
2-Hexanone	0.0500	0.0377		mg/Kg		75	48 - 146
Methylene Chloride	0.0500	0.0479		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0367		mg/Kg		73	50 - 148
Methyl tert-butyl ether	0.0500	0.0389		mg/Kg		78	50 - 140
Styrene	0.0500	0.0516		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0404		mg/Kg		81	70 - 122
Tetrachloroethene	0.0500	0.0534		mg/Kg		107	70 - 124
Toluene	0.0500	0.0523		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0541		mg/Kg		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0384		mg/Kg		77	70 - 125
1,1,1-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 128
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125
Trichloroethene	0.0500	0.0548		mg/Kg		110	70 - 125
Vinyl acetate	0.0500	0.0334		mg/Kg		67	40 - 153
Vinyl chloride	0.0500	0.0569		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0999		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	85		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-579020/5
Matrix: Solid
Analysis Batch: 579020

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	0.0467		mg/Kg		93	40 - 150	8	30
Benzene	0.0500	0.0564		mg/Kg		113	70 - 125	10	30
Bromodichloromethane	0.0500	0.0505		mg/Kg		101	67 - 129	10	30
Bromoform	0.0500	0.0524		mg/Kg		105	68 - 136	12	30
Bromomethane	0.0500	0.0465		mg/Kg		93	70 - 130	8	30
2-Butanone (MEK)	0.0500	0.0387		mg/Kg		77	47 - 138	4	30
Carbon disulfide	0.0500	0.0594		mg/Kg		119	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0593		mg/Kg		119	75 - 125	8	30
Chlorobenzene	0.0500	0.0574		mg/Kg		115	50 - 150	11	30
Chloroethane	0.0500	0.0595		mg/Kg		119	75 - 125	6	30
Chloroform	0.0500	0.0527		mg/Kg		105	57 - 135	9	30
Chloromethane	0.0500	0.0556		mg/Kg		111	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 125	9	30
cis-1,3-Dichloropropene	0.0500	0.0463		mg/Kg		93	70 - 125	13	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0622		mg/Kg		124	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130	9	30
1,1-Dichloroethene	0.0500	0.0583		mg/Kg		117	70 - 120	7	30
1,2-Dichloropropane	0.0500	0.0580		mg/Kg		116	70 - 125	10	30
Ethylbenzene	0.0500	0.0600		mg/Kg		120	61 - 136	11	30
2-Hexanone	0.0500	0.0413		mg/Kg		83	48 - 146	9	30
Methylene Chloride	0.0500	0.0520		mg/Kg		104	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0409		mg/Kg		82	50 - 148	11	30
Methyl tert-butyl ether	0.0500	0.0434		mg/Kg		87	50 - 140	11	30
Styrene	0.0500	0.0578		mg/Kg		116	70 - 125	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0457		mg/Kg		91	70 - 122	12	30
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 124	11	30
Toluene	0.0500	0.0582		mg/Kg		116	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0592		mg/Kg		118	70 - 125	9	30
trans-1,3-Dichloropropene	0.0500	0.0431		mg/Kg		86	70 - 125	12	30
1,1,1-Trichloroethane	0.0500	0.0559		mg/Kg		112	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0502		mg/Kg		100	70 - 125	13	30
Trichloroethene	0.0500	0.0598		mg/Kg		120	70 - 125	9	30
Vinyl acetate	0.0500	0.0333		mg/Kg		67	40 - 153	0	30
Vinyl chloride	0.0500	0.0613		mg/Kg		123	70 - 125	7	30
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147	11	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579030/1-A

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 579030

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-579030/1-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/30/20 07:24	12/30/20 19:14	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/30/20 07:24	12/30/20 19:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	12/30/20 07:24	12/30/20 19:14	1
2-Fluorophenol	105		31 - 166	12/30/20 07:24	12/30/20 19:14	1
Nitrobenzene-d5	89		37 - 147	12/30/20 07:24	12/30/20 19:14	1
Phenol-d5	85		30 - 153	12/30/20 07:24	12/30/20 19:14	1
Terphenyl-d14	87		42 - 157	12/30/20 07:24	12/30/20 19:14	1
2,4,6-Tribromophenol	97		31 - 143	12/30/20 07:24	12/30/20 19:14	1

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124
Acenaphthylene	1.33	1.22		mg/Kg		91	68 - 120
Anthracene	1.33	1.12		mg/Kg		84	70 - 114
Benzo[a]anthracene	1.33	1.08		mg/Kg		81	67 - 122
Benzo[a]pyrene	1.33	1.26		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	69 - 129
Benzo[g,h,i]perylene	1.33	1.41		mg/Kg		106	72 - 131
Benzo[k]fluoranthene	1.33	1.25		mg/Kg		94	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.21		mg/Kg		90	60 - 112
Bis(2-chloroethyl)ether	1.33	1.19		mg/Kg		89	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.11		mg/Kg		83	72 - 131
4-Bromophenyl phenyl ether	1.33	1.23		mg/Kg		92	68 - 118
Butyl benzyl phthalate	1.33	1.08		mg/Kg		81	71 - 129
Carbazole	1.33	1.29		mg/Kg		97	65 - 142
4-Chloroaniline	1.33	1.10		mg/Kg		82	30 - 150
4-Chloro-3-methylphenol	1.33	1.35		mg/Kg		101	65 - 122
2-Chloronaphthalene	1.33	1.20		mg/Kg		90	69 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579030/2-A

Matrix: Solid

Analysis Batch: 579167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 579030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Chrysene	1.33	1.11		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.24		mg/Kg		93	66 - 115
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	65 - 124
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.925		mg/Kg		69	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.06		mg/Kg		79	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		94	69 - 116
Di-n-butyl phthalate	1.33	1.14		mg/Kg		86	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.24		mg/Kg		47	10 - 110
2,4-Dinitrophenol	2.67	0.795		mg/Kg		30	10 - 100
2,4-Dinitrotoluene	1.33	1.29		mg/Kg		97	69 - 124
2,6-Dinitrotoluene	1.33	1.28		mg/Kg		96	70 - 123
Di-n-octyl phthalate	1.33	1.20		mg/Kg		90	68 - 134
Fluoranthene	1.33	1.18		mg/Kg		88	62 - 120
Fluorene	1.33	1.21		mg/Kg		90	62 - 120
Hexachlorobenzene	1.33	1.39		mg/Kg		104	63 - 124
Hexachlorobutadiene	1.33	1.43		mg/Kg		107	56 - 120
Hexachlorocyclopentadiene	1.33	0.506	J	mg/Kg		38	10 - 133
Hexachloroethane	1.33	1.21		mg/Kg		91	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.38		mg/Kg		104	68 - 130
Isophorone	1.33	1.23		mg/Kg		92	55 - 110
2-Methylnaphthalene	1.33	1.18		mg/Kg		89	69 - 112
2-Methylphenol	1.33	1.44		mg/Kg		108	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		95	57 - 120
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
3-Nitroaniline	1.33	1.02		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	1.08		mg/Kg		81	60 - 160
Nitrobenzene	1.33	1.24		mg/Kg		93	60 - 116
2-Nitrophenol	1.33	1.18		mg/Kg		88	60 - 120
4-Nitrophenol	2.67	2.95		mg/Kg		110	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	56 - 118
N-Nitrosodiphenylamine	1.33	1.14		mg/Kg		85	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.07		mg/Kg		80	40 - 124
Pentachlorophenol	2.67	1.69		mg/Kg		63	13 - 112
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Phenol	1.33	1.17		mg/Kg		88	56 - 122
Pyrene	1.33	1.06		mg/Kg		80	61 - 128
1,2,4-Trichlorobenzene	1.33	1.27		mg/Kg		96	66 - 117
2,4,5-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		94	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579030/2-A
Matrix: Solid
Analysis Batch: 579167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579030

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	93		43 - 145
2-Fluorophenol	102		31 - 166
Nitrobenzene-d5	91		37 - 147
Phenol-d5	91		30 - 153
Terphenyl-d14	85		42 - 157
2,4,6-Tribromophenol	112		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-578981/1-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578981

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Barium	<0.11		1.0	0.11	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Cadmium	0.0500	J	0.20	0.036	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Copper	<0.28		1.0	0.28	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Iron	<10		20	10	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Lead	<0.23		0.50	0.23	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Magnesium	6.23	J	10	5.0	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Calcium	9.75	J	20	3.4	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Silver	<0.13		0.50	0.13	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Zinc	<0.88	^+	2.0	0.88	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Potassium	<18		50	18	mg/Kg		12/29/20 19:05	01/04/21 18:45	1
Sodium	<15		100	15	mg/Kg		12/29/20 19:05	01/04/21 18:45	1

Lab Sample ID: LCS 500-578981/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578981

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	42.7		mg/Kg		85		80 - 120
Arsenic	10.0	9.40		mg/Kg		94		80 - 120
Barium	200	192		mg/Kg		96		80 - 120
Beryllium	5.00	4.80		mg/Kg		96		80 - 120
Cadmium	5.00	4.60		mg/Kg		92		80 - 120
Chromium	20.0	19.6		mg/Kg		98		80 - 120
Cobalt	50.0	49.6		mg/Kg		99		80 - 120
Copper	25.0	24.0		mg/Kg		96		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-578981/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.46		mg/Kg		95	80 - 120
Magnesium	1000	960		mg/Kg		96	80 - 120
Calcium	1000	991		mg/Kg		99	80 - 120
Manganese	50.0	48.0		mg/Kg		96	80 - 120
Nickel	50.0	48.7		mg/Kg		97	80 - 120
Selenium	10.0	8.12		mg/Kg		81	80 - 120
Silver	5.00	4.46		mg/Kg		89	80 - 120
Thallium	10.0	9.55		mg/Kg		95	80 - 120
Vanadium	50.0	49.4		mg/Kg		99	80 - 120
Zinc	50.0	48.5	^+	mg/Kg		97	80 - 120
Potassium	1000	930		mg/Kg		93	80 - 120
Sodium	1000	951		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Nickel	0.500	0.541		mg/L		108	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Zinc	0.500	0.606	*+	mg/L		121	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.050		0.50	0.050	mg/L		01/04/21 17:53	01/05/21 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/05/21 23:59	1
Magnesium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Calcium	<0.50		5.0	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/05/21 23:59	1
Potassium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:27	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Zinc	0.0239	J	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:27	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 17:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 17:55	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.492		mg/L		98	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579700

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:39	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579477/12-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:01	1

Lab Sample ID: LCS 500-579477/14-A
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-579346/1-B
Matrix: Solid
Analysis Batch: 579681

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579477

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:03	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-579093/12-A
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/30/20 13:05	12/31/20 08:17	1

Lab Sample ID: LCS 500-579093/13-A
Matrix: Solid
Analysis Batch: 579294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578858/1-A
Matrix: Solid
Analysis Batch: 578907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/29/20 09:49	12/29/20 11:10	1

Lab Sample ID: HLCS 500-578858/2-A
Matrix: Solid
Analysis Batch: 578907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578858

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	11.9		mg/Kg		99	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 500-578858/3-A
Matrix: Solid
Analysis Batch: 578907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578858
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.51		mg/Kg		105	85 - 115

Lab Sample ID: LLCS 500-578858/4-A
Matrix: Solid
Analysis Batch: 578907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578858
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.25		mg/Kg		104	75 - 125



QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

GC/MS VOA

Prep Batch: 578787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 579020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	8260B	578787
MB 500-579020/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-579020/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-579020/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 579030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	3541	
MB 500-579030/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 579167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	8270D	579030
MB 500-579030/1-A	Method Blank	Total/NA	Solid	8270D	579030
LCS 500-579030/2-A	Lab Control Sample	Total/NA	Solid	8270D	579030

Metals

Prep Batch: 578981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	3050B	
MB 500-578981/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-578981/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 579093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	7471B	
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 579294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	7471B	579093
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	579093
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	579093

Leach Batch: 579346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	TCLP	Solid	1311	
LB 500-579346/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579346/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 579477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	TCLP	Solid	7470A	579346

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Metals (Continued)

Prep Batch: 579477 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579346
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	TCLP	Solid	3010A	579346
LB 500-579346/1-C	Method Blank	TCLP	Solid	3010A	579346
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 579576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	6010B	578981
MB 500-578981/1-A	Method Blank	Total/NA	Solid	6010B	578981
LCS 500-578981/2-A	Lab Control Sample	Total/NA	Solid	6010B	578981

Analysis Batch: 579681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	TCLP	Solid	7470A	579477
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579477
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	579477
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	579477

Analysis Batch: 579700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	TCLP	Solid	6020A	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6020A	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6020A	579532

Analysis Batch: 579797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Analysis Batch: 579995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Analysis Batch: 580182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

General Chemistry

Analysis Batch: 578304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 578407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	9045D	
LCS 500-578407/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-578407/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	9010C	
MB 500-578858/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578858/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578858/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578858/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 578907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192918-1	3972-COV-23-B01 (0-3)	Total/NA	Solid	9012B	578858
MB 500-578858/1-A	Method Blank	Total/NA	Solid	9012B	578858
HLCS 500-578858/2-A	Lab Control Sample	Total/NA	Solid	9012B	578858
LCS 500-578858/3-A	Lab Control Sample	Total/NA	Solid	9012B	578858
LLCS 500-578858/4-A	Lab Control Sample	Total/NA	Solid	9012B	578858



Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Client Sample ID: 3972-COV-23-B01 (0-3)

Lab Sample ID: 500-192918-1

Date Collected: 12/22/20 13:35

Matrix: Solid

Date Received: 12/22/20 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 00:36	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 21:57	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 18:32	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 12:57	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:27	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578407	12/23/20 17:47	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578304	12/23/20 11:12	LWN	TAL CHI

Client Sample ID: 3972-COV-23-B01 (0-3)

Lab Sample ID: 500-192918-1

Date Collected: 12/22/20 13:35

Matrix: Solid

Date Received: 12/22/20 17:20

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578787	12/22/20 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579020	12/30/20 18:31	PMF	TAL CHI
Total/NA	Prep	3541			579030	12/30/20 07:24	BSO	TAL CHI
Total/NA	Analysis	8270D		1	579167	12/30/20 22:04	NRJ	TAL CHI
Total/NA	Prep	3050B			578981	12/29/20 19:05	BDE	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 19:27	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 08:32	MJG	TAL CHI
Total/NA	Prep	9010C			578858	12/29/20 09:49	PSP	TAL CHI
Total/NA	Analysis	9012B		1	578907	12/29/20 11:23	PSP	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192918-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192918-1	3972-COV-23-B01 (0-3)	Solid	12/22/20 13:35	12/22/20 17:20	

1

2

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12

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14

15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Matt Weiss
 Company: Terracon
 Address: 192 Exchange Blvd
Glendale Heights, IL
 Phone: 630-445-0600
 Fax:
 E-Mail: matt.weiss@terracon.com

Bill To (optional)
 Contact:
 Company:
 Address:
 Address:
 Address:
 Phone:
 Fax: 500-192918 COC
 PO#/Reference#

Chain of Custody Record

Lab Job #: 500-192918
 Chain of Custody Number:
 Page 1 of 1
 Temperature °C of Cooler: 2.970.6

Client		Client Project #		Preservative		Parameter		Comments	
<u>Terracon</u>		<u>11707011W</u>						Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix	
<u>11707011W</u>									
Project Location/State		Lab Project #		Date		Time		Matrix	
<u>Hanover Park, IL</u>									
Sampler		Lab PM		Date		Time		Matrix	
<u>P.G. Ft</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix			
<u>1</u>		<u>3472-COL-23 B01 (0-3)</u>	<u>12/22/20</u>	<u>1335</u>	<u>6</u>	<u>Soil</u>	<u>X</u>	<u>X</u>	<u>X</u>
							<u>VOC'S</u>	<u>SUOC'S</u>	<u>706/23 Inorganics PH</u>
									<u>TCLP 23 Inorganics</u>
									<u>SPE 23 Inorganics</u>

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>P. Weiss</u> Company: <u>Terracon</u> Date: <u>12/22/20</u> Time: <u>1610</u>	Received By: <u>P. Neal</u> Company: <u>ETA</u> Date: <u>12/22/20</u> Time: <u>1610</u>	Lab Courier: <input checked="" type="checkbox"/>
Relinquished By: <u>P. Neal</u> Company: <u>ETA</u> Date: <u>12/22/20</u> Time: <u>1722</u>	Received By: <u>Stephanie Hernandez</u> Company: <u>ETA-CHI</u> Date: <u>12/22/20</u> Time: <u>1722</u>	Shipped: <input type="checkbox"/>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: <input type="checkbox"/>

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:
* No Aluminum
* How SPE 23 Inorganics per
Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192918-1

Login Number: 192918

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 1321-IL Rte 19 (Irving Park) at Barrington Rd Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Irving Park Road (Eastbound) IDOT STA 103+40 to 105+64 (ISGS Site 3972-COV-25)

City: Hanover Park State: IL Zip Code: 60133

County: Cook Township: Schaumburg

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.00498 Longitude: -88.14336

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 8

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Soil from boring B01 was sampled adjacent to ISGS Site Nos 3972-COV-25. See Exhibit 2 and Table 39 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Eurofins TestAmerica, Chicago Report No. J192923-1

See also Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc.
 Street Address: 192 Exchange Boulevard
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/18/21
Date:



P.E or L.P.G. Seal:

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-25)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 1 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-25-B01 (0-1)
		Chicago	MSAs		Sample Depth (feet)	(0-1)
					Date Collected	03/02/2016
Semivolatile Organic Analytical Parameters						
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.027
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.038
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.053
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.030
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.018
Chrysene	mg/kg	1.2	2.7	88		0.037
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.0081
Fluoranthene	mg/kg	2.7	4.1	3100		0.053
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.024
Phenanthrene	mg/kg	1.3	2.5	210		0.026
Pyrene	mg/kg	1.9	3.0	2300		0.054
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7.7
Barium	mg/kg	---	110	1500		120
Cadmium	mg/kg	---	0.6	5.2		0.11
Chromium, total	mg/kg	---	16.2	21		22
Lead	mg/kg	---	36	107		28
Mercury	mg/kg	---	0.06	0.89		0.054
Selenium	mg/kg	---	0.48	1.3		0.51
Silver	mg/kg	---	0.55	4.4		<0.080
Antimony	mg/kg	---	4.0	5		0.56
Beryllium	mg/kg	---	0.59	22		0.85
Calcium	mg/kg	---	9,300	---		5300
Cobalt	mg/kg	---	8.9	20		14
Copper	mg/kg	---	19.6	2900		20
Cyanide	mg/kg	---	0.51	---		0.26
Iron	mg/kg	---	15,900	15000		22000
Magnesium	mg/kg	---	4,820	325000		4200
Manganese	mg/kg	---	636	630		590
Nickel	mg/kg	---	18	100		28
Potassium	mg/kg	---	1,268	---		2200
Sodium	mg/kg	---	130	---		410
Thallium	mg/kg	---	0.32	2.6		<0.31
Vanadium	mg/kg	---	25.2	550		34
Zinc	mg/kg	---	95	5100		87
pH			6.25	9		8.1

Comparison of Detected Constituents to MACS-PTB 174-009; Work Order:077A

Preliminary Site Investigation

FAU 1321 - IL Route 19 at Barrington Rd (PESA 3972-COV-25)

Hanover Park, Cook County, IL

Terracon Project No. 11207011W

Page 2 of 2

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3972-COV-25-B01 (0-1)
		Chicago	MSAs		Sample Depth (feet)	(0-1)
					Date Collected	03/02/2016
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.34
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		120
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		40
Manganese,TCLP	mg/L	---	---	---		0.057
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		0.96
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.032

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-192923-1

Client Project/Site: IDOT - Hanover Park - WO 077

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
1/8/2021 3:50:38 PM

Richard Wright, Senior Project Manager
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Job ID: 500-192923-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192923-1

Receipt

The sample was received on 12/22/2020 5:22 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-579346 and 500-579532 and analytical batch 500-579995 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6010B: The continuing calibration verification (CCV) associated with batch 500-579995 recovered above the upper control limit for Nickel. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

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: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Client Sample ID: 3972-COV-25-B01 (0-1)

Lab Sample ID: 500-192923-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.027	J	0.042	0.0057	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.038	J	0.042	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.053		0.042	0.0091	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J	0.042	0.014	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.042	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.037	J	0.042	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.0081	J	0.042	0.0081	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.053		0.042	0.0078	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.042	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.026	J	0.042	0.0059	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.054		0.042	0.0084	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.56	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.7		0.62	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	120		0.62	0.071	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.85		0.25	0.058	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.11	J	0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	22		0.62	0.31	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.31	0.081	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.62	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	22000		12	6.5	mg/Kg	1	✳	6010B	Total/NA
Lead	28		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	4200		6.2	3.1	mg/Kg	1	✳	6010B	Total/NA
Calcium	5300	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	590		0.62	0.090	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.62	0.18	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.51	J	0.62	0.37	mg/Kg	1	✳	6010B	Total/NA
Vanadium	34		0.31	0.073	mg/Kg	1	✳	6010B	Total/NA
Zinc	87		1.2	0.55	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200		31	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	410		62	9.2	mg/Kg	1	✳	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	120		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	40		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.057		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.96	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.032	J B **	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.054		0.021	0.0069	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.26		0.26	0.13	mg/Kg	1	✳	9012B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Client Sample ID: 3972-COV-25-B01 (0-1)

Lab Sample ID: 500-192923-1

Date Collected: 12/22/20 13:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 78.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0089		0.020	0.0089	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Benzene	<0.00052		0.0020	0.00052	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Bromodichloromethane	<0.00042		0.0020	0.00042	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Bromoform	<0.00060		0.0020	0.00060	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Carbon tetrachloride	<0.00059		0.0020	0.00059	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Chlorobenzene	<0.00075		0.0020	0.00075	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Chloroethane	<0.0015		0.0051	0.0015	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Chloroform	<0.00071		0.0020	0.00071	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Chloromethane	<0.0021		0.0051	0.0021	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
cis-1,2-Dichloroethene	<0.00057		0.0020	0.00057	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
cis-1,3-Dichloropropene	<0.00062		0.0020	0.00062	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Dibromochloromethane	<0.00067		0.0020	0.00067	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
1,1-Dichloroethane	<0.00070		0.0020	0.00070	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
1,1-Dichloroethene	<0.00070		0.0020	0.00070	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
1,2-Dichloropropene	<0.00053		0.0020	0.00053	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
1,3-Dichloropropene, Total	<0.00072		0.0020	0.00072	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Ethylbenzene	<0.00098		0.0020	0.00098	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Methyl tert-butyl ether	<0.00060		0.0020	0.00060	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Styrene	<0.00062		0.0020	0.00062	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0020	0.00065	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Tetrachloroethene	<0.00070		0.0020	0.00070	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Toluene	<0.00052		0.0020	0.00052	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
trans-1,2-Dichloroethene	<0.00090		0.0020	0.00090	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
trans-1,3-Dichloropropene	<0.00072		0.0020	0.00072	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
1,1,1-Trichloroethane	<0.00069		0.0020	0.00069	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
1,1,2-Trichloroethane	<0.00088		0.0020	0.00088	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Trichloroethene	<0.00069		0.0020	0.00069	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Vinyl chloride	<0.00090		0.0020	0.00090	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1
Xylenes, Total	<0.00065		0.0041	0.00065	mg/Kg	✳	12/23/20 17:29	12/31/20 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	12/23/20 17:29	12/31/20 18:20	1
Dibromofluoromethane	101		75 - 126	12/23/20 17:29	12/31/20 18:20	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	12/23/20 17:29	12/31/20 18:20	1
Toluene-d8 (Surr)	91		75 - 124	12/23/20 17:29	12/31/20 18:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.042	0.0076	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
Acenaphthylene	<0.0055		0.042	0.0055	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
Anthracene	<0.0070		0.042	0.0070	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
Benzo[a]anthracene	0.027	J	0.042	0.0057	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Client Sample ID: 3972-COV-25-B01 (0-1)

Lab Sample ID: 500-192923-1

Date Collected: 12/22/20 13:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 78.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.038	J	0.042	0.0081	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Benzo[b]fluoranthene	0.053		0.042	0.0091	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Benzo[g,h,i]perylene	0.030	J	0.042	0.014	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Benzo[k]fluoranthene	0.018	J	0.042	0.012	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Bis(2-ethylhexyl) phthalate	<0.077		0.21	0.077	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Butyl benzyl phthalate	<0.080		0.21	0.080	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Carbazole	<0.11		0.21	0.11	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
4-Chloroaniline	<0.20		0.85	0.20	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Chrysene	0.037	J	0.042	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Dibenz(a,h)anthracene	0.0081	J	0.042	0.0081	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
4,6-Dinitro-2-methylphenol	<0.34		0.85	0.34	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2,4-Dinitrophenol	<0.74		0.85	0.74	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2,6-Dinitrotoluene	<0.083		0.21	0.083	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Di-n-octyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Fluoranthene	0.053		0.042	0.0078	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Fluorene	<0.0059		0.042	0.0059	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Hexachlorobenzene	<0.0097		0.085	0.0097	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Hexachlorocyclopentadiene	<0.24		0.85	0.24	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Indeno[1,2,3-cd]pyrene	0.024	J	0.042	0.011	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2-Methylnaphthalene	<0.0077		0.085	0.0077	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Naphthalene	<0.0065		0.042	0.0065	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2-Nitroaniline	<0.057		0.21	0.057	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
Nitrobenzene	<0.010		0.042	0.010	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1
2-Nitrophenol	<0.099		0.42	0.099	mg/Kg	☼	12/30/20 16:55	12/31/20 12:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Client Sample ID: 3972-COV-25-B01 (0-1)

Lab Sample ID: 500-192923-1

Date Collected: 12/22/20 13:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 78.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
N-Nitrosodi-n-propylamine	<0.051		0.085	0.051	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
Pentachlorophenol	<0.67		0.85	0.67	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
Phenanthrene	0.026	J	0.042	0.0059	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
Phenol	<0.093		0.21	0.093	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
Pyrene	0.054		0.042	0.0084	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
2,4,5-Trichlorophenol	<0.096		0.42	0.096	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	✳	12/30/20 16:55	12/31/20 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	44		43 - 145				12/30/20 16:55	12/31/20 12:27	1
2-Fluorophenol	44		31 - 166				12/30/20 16:55	12/31/20 12:27	1
Nitrobenzene-d5	44		37 - 147				12/30/20 16:55	12/31/20 12:27	1
Phenol-d5	57		30 - 153				12/30/20 16:55	12/31/20 12:27	1
Terphenyl-d14	76		42 - 157				12/30/20 16:55	12/31/20 12:27	1
2,4,6-Tribromophenol	59		31 - 143				12/30/20 16:55	12/31/20 12:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.2	0.24	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Arsenic	7.7		0.62	0.21	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Barium	120		0.62	0.071	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Beryllium	0.85		0.25	0.058	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Cadmium	0.11	J	0.12	0.022	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Chromium	22		0.62	0.31	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Cobalt	14		0.31	0.081	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Copper	20		0.62	0.17	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Iron	22000		12	6.5	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Lead	28		0.31	0.14	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Magnesium	4200		6.2	3.1	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Calcium	5300	B	12	2.1	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Manganese	590		0.62	0.090	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Nickel	28		0.62	0.18	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Selenium	0.51	J	0.62	0.37	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Silver	<0.080		0.31	0.080	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Thallium	<0.31		0.62	0.31	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Vanadium	34		0.31	0.073	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Zinc	87		1.2	0.55	mg/Kg	✳	12/30/20 06:38	01/05/21 21:06	1
Potassium	2200		31	11	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1
Sodium	410		62	9.2	mg/Kg	✳	12/30/20 06:38	01/04/21 18:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 22:51	1
Barium	0.34	J	0.50	0.050	mg/L		01/04/21 17:53	01/06/21 01:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/06/21 01:20	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 22:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Client Sample ID: 3972-COV-25-B01 (0-1)

Lab Sample ID: 500-192923-1

Date Collected: 12/22/20 13:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 78.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120		5.0	0.50	mg/L		01/04/21 17:53	01/06/21 01:20	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:51	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:51	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:51	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 22:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 19:25	1
Magnesium	40		2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:20	1
Manganese	0.057		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 01:20	1
Nickel	<0.010	^+	0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:51	1
Potassium	0.96	J	2.5	0.50	mg/L		01/04/21 17:53	01/06/21 01:20	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 19:25	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:51	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 22:51	1
Zinc	0.032	J B *+	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 22:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 13:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 13:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.021	0.0069	mg/Kg	⊛	12/30/20 13:05	12/31/20 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.26		0.26	0.13	mg/Kg	⊛	12/29/20 14:12	12/29/20 16:29	1
pH	8.1		0.2	0.2	SU			12/28/20 17:56	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-192923-1	3972-COV-25-B01 (0-1)	89	101	90	91
LCS 500-579222/4	Lab Control Sample	87	88	76	96
LCSD 500-579222/5	Lab Control Sample Dup	89	90	77	94
MB 500-579222/7	Method Blank	93	96	84	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-192923-1	3972-COV-25-B01 (0-1)	44	44	44	57	76	59
LCS 500-579174/2-A	Lab Control Sample	110	77	99	90	92	89
MB 500-579174/1-A	Method Blank	86	66	82	74	90	69

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579222/7

Matrix: Solid

Analysis Batch: 579222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			12/31/20 11:07	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/31/20 11:07	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/31/20 11:07	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/31/20 11:07	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/31/20 11:07	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/31/20 11:07	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/31/20 11:07	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/31/20 11:07	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/31/20 11:07	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/31/20 11:07	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/31/20 11:07	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/31/20 11:07	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/31/20 11:07	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/31/20 11:07	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/31/20 11:07	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/31/20 11:07	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/31/20 11:07	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/31/20 11:07	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/31/20 11:07	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/31/20 11:07	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/31/20 11:07	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/31/20 11:07	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/31/20 11:07	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/31/20 11:07	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/31/20 11:07	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/31/20 11:07	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/31/20 11:07	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/31/20 11:07	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/31/20 11:07	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/31/20 11:07	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/31/20 11:07	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/31/20 11:07	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/31/20 11:07	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/31/20 11:07	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/31/20 11:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		75 - 131		12/31/20 11:07	1
Dibromofluoromethane	96		75 - 126		12/31/20 11:07	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		12/31/20 11:07	1
Toluene-d8 (Surr)	91		75 - 124		12/31/20 11:07	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579222/4

Matrix: Solid

Analysis Batch: 579222

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	0.0413		mg/Kg		83	40 - 150
Benzene	0.0500	0.0499		mg/Kg		100	70 - 125
Bromodichloromethane	0.0500	0.0446		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0444		mg/Kg		89	68 - 136
Bromomethane	0.0500	0.0411		mg/Kg		82	70 - 130
2-Butanone (MEK)	0.0500	0.0312		mg/Kg		62	47 - 138
Carbon disulfide	0.0500	0.0533		mg/Kg		107	70 - 129
Carbon tetrachloride	0.0500	0.0528		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0505		mg/Kg		101	50 - 150
Chloroethane	0.0500	0.0537		mg/Kg		107	75 - 125
Chloroform	0.0500	0.0464		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0458		mg/Kg		92	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0398		mg/Kg		80	70 - 125
Dibromochloromethane	0.0500	0.0480		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0555		mg/Kg		111	70 - 125
1,2-Dichloroethane	0.0500	0.0410		mg/Kg		82	70 - 130
1,1-Dichloroethene	0.0500	0.0519		mg/Kg		104	70 - 120
1,2-Dichloropropane	0.0500	0.0515		mg/Kg		103	70 - 125
Ethylbenzene	0.0500	0.0529		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0338		mg/Kg		68	48 - 146
Methylene Chloride	0.0500	0.0455		mg/Kg		91	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0321		mg/Kg		64	50 - 148
Methyl tert-butyl ether	0.0500	0.0362		mg/Kg		72	50 - 140
Styrene	0.0500	0.0502		mg/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0390		mg/Kg		78	70 - 122
Tetrachloroethene	0.0500	0.0526		mg/Kg		105	70 - 124
Toluene	0.0500	0.0517		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0526		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0376		mg/Kg		75	70 - 125
1,1,1-Trichloroethane	0.0500	0.0495		mg/Kg		99	70 - 128
1,1,2-Trichloroethane	0.0500	0.0432		mg/Kg		86	70 - 125
Trichloroethene	0.0500	0.0532		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0286		mg/Kg		57	40 - 153
Vinyl chloride	0.0500	0.0528		mg/Kg		106	70 - 125
Xylenes, Total	0.100	0.0976		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	87		75 - 131
Dibromofluoromethane	88		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-579222/5

Matrix: Solid

Analysis Batch: 579222

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	0.0382		mg/Kg		76	40 - 150	8	30
Benzene	0.0500	0.0520		mg/Kg		104	70 - 125	4	30
Bromodichloromethane	0.0500	0.0468		mg/Kg		94	67 - 129	5	30
Bromoform	0.0500	0.0482		mg/Kg		96	68 - 136	8	30
Bromomethane	0.0500	0.0395		mg/Kg		79	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0323		mg/Kg		65	47 - 138	4	30
Carbon disulfide	0.0500	0.0548		mg/Kg		110	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0551		mg/Kg		110	75 - 125	4	30
Chlorobenzene	0.0500	0.0531		mg/Kg		106	50 - 150	5	30
Chloroethane	0.0500	0.0529		mg/Kg		106	75 - 125	2	30
Chloroform	0.0500	0.0485		mg/Kg		97	57 - 135	4	30
Chloromethane	0.0500	0.0446		mg/Kg		89	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0426		mg/Kg		85	70 - 125	7	30
Dibromochloromethane	0.0500	0.0508		mg/Kg		102	69 - 125	6	30
1,1-Dichloroethane	0.0500	0.0575		mg/Kg		115	70 - 125	4	30
1,2-Dichloroethane	0.0500	0.0443		mg/Kg		89	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0538		mg/Kg		108	70 - 120	3	30
1,2-Dichloropropane	0.0500	0.0552		mg/Kg		110	70 - 125	7	30
Ethylbenzene	0.0500	0.0554		mg/Kg		111	61 - 136	5	30
2-Hexanone	0.0500	0.0362		mg/Kg		72	48 - 146	7	30
Methylene Chloride	0.0500	0.0466		mg/Kg		93	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0337		mg/Kg		67	50 - 148	5	30
Methyl tert-butyl ether	0.0500	0.0380		mg/Kg		76	50 - 140	5	30
Styrene	0.0500	0.0521		mg/Kg		104	70 - 125	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0419		mg/Kg		84	70 - 122	7	30
Tetrachloroethene	0.0500	0.0546		mg/Kg		109	70 - 124	4	30
Toluene	0.0500	0.0531		mg/Kg		106	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0410		mg/Kg		82	70 - 125	9	30
1,1,1-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 125	8	30
Trichloroethene	0.0500	0.0561		mg/Kg		112	70 - 125	5	30
Vinyl acetate	0.0500	0.0311		mg/Kg		62	40 - 153	8	30
Vinyl chloride	0.0500	0.0508		mg/Kg		102	70 - 125	4	30
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579174/1-A

Matrix: Solid

Analysis Batch: 579272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 579174

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/30/20 16:55	12/31/20 10:19	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-579174/1-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/30/20 16:55	12/31/20 10:19	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/30/20 16:55	12/31/20 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		43 - 145	12/30/20 16:55	12/31/20 10:19	1
2-Fluorophenol	66		31 - 166	12/30/20 16:55	12/31/20 10:19	1
Nitrobenzene-d5	82		37 - 147	12/30/20 16:55	12/31/20 10:19	1
Phenol-d5	74		30 - 153	12/30/20 16:55	12/31/20 10:19	1
Terphenyl-d14	90		42 - 157	12/30/20 16:55	12/31/20 10:19	1
2,4,6-Tribromophenol	69		31 - 143	12/30/20 16:55	12/31/20 10:19	1

Lab Sample ID: LCS 500-579174/2-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.23		mg/Kg		93	65 - 124
Acenaphthylene	1.33	1.21		mg/Kg		91	68 - 120
Anthracene	1.33	1.22		mg/Kg		91	70 - 114
Benzo[a]anthracene	1.33	1.10		mg/Kg		83	67 - 122
Benzo[a]pyrene	1.33	1.31		mg/Kg		98	65 - 133
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	69 - 129
Benzo[g,h,i]perylene	1.33	1.36		mg/Kg		102	72 - 131
Benzo[k]fluoranthene	1.33	1.33		mg/Kg		100	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
Bis(2-chloroethyl)ether	1.33	1.12		mg/Kg		84	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.08		mg/Kg		81	72 - 131
4-Bromophenyl phenyl ether	1.33	1.17		mg/Kg		87	68 - 118
Butyl benzyl phthalate	1.33	1.05		mg/Kg		79	71 - 129
Carbazole	1.33	1.24		mg/Kg		93	65 - 142
4-Chloroaniline	1.33	1.08		mg/Kg		81	30 - 150
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	65 - 122
2-Chloronaphthalene	1.33	1.17		mg/Kg		88	69 - 114
2-Chlorophenol	1.33	0.970		mg/Kg		73	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579174/2-A

Matrix: Solid

Analysis Batch: 579272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 579174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.20		mg/Kg		90	62 - 119
Chrysene	1.33	1.13		mg/Kg		84	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.22		mg/Kg		91	66 - 115
1,2-Dichlorobenzene	1.33	1.02		mg/Kg		77	62 - 110
1,3-Dichlorobenzene	1.33	0.965		mg/Kg		72	65 - 124
1,4-Dichlorobenzene	1.33	0.990		mg/Kg		74	61 - 110
3,3'-Dichlorobenzidine	1.33	0.800		mg/Kg		60	35 - 128
2,4-Dichlorophenol	1.33	1.10		mg/Kg		82	58 - 120
Diethyl phthalate	1.33	1.39		mg/Kg		104	58 - 120
2,4-Dimethylphenol	1.33	1.05		mg/Kg		79	60 - 110
Dimethyl phthalate	1.33	1.29		mg/Kg		97	69 - 116
Di-n-butyl phthalate	1.33	1.19		mg/Kg		90	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.819		mg/Kg		31	10 - 110
2,4-Dinitrophenol	2.67	0.676		mg/Kg		25	10 - 100
2,4-Dinitrotoluene	1.33	1.29		mg/Kg		96	69 - 124
2,6-Dinitrotoluene	1.33	1.25		mg/Kg		94	70 - 123
Di-n-octyl phthalate	1.33	1.14		mg/Kg		86	68 - 134
Fluoranthene	1.33	1.24		mg/Kg		93	62 - 120
Fluorene	1.33	1.22		mg/Kg		92	62 - 120
Hexachlorobenzene	1.33	1.32		mg/Kg		99	63 - 124
Hexachlorobutadiene	1.33	1.14		mg/Kg		86	56 - 120
Hexachlorocyclopentadiene	1.33	0.651	J	mg/Kg		49	10 - 133
Hexachloroethane	1.33	1.03		mg/Kg		77	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.37		mg/Kg		103	68 - 130
Isophorone	1.33	1.32		mg/Kg		99	55 - 110
2-Methylnaphthalene	1.33	1.09		mg/Kg		81	69 - 112
2-Methylphenol	1.33	1.10		mg/Kg		83	60 - 120
3 & 4 Methylphenol	1.33	1.09		mg/Kg		82	57 - 120
Naphthalene	1.33	1.10		mg/Kg		83	63 - 110
2-Nitroaniline	1.33	1.38		mg/Kg		103	57 - 124
3-Nitroaniline	1.33	1.08		mg/Kg		81	40 - 122
4-Nitroaniline	1.33	1.14		mg/Kg		86	60 - 160
Nitrobenzene	1.33	1.20		mg/Kg		90	60 - 116
2-Nitrophenol	1.33	1.06		mg/Kg		80	60 - 120
4-Nitrophenol	2.67	2.88		mg/Kg		108	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.17		mg/Kg		88	56 - 118
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.25		mg/Kg		94	40 - 124
Pentachlorophenol	2.67	1.60		mg/Kg		60	13 - 112
Phenanthrene	1.33	1.19		mg/Kg		89	62 - 120
Phenol	1.33	1.11		mg/Kg		83	56 - 122
Pyrene	1.33	1.15		mg/Kg		86	61 - 128
1,2,4-Trichlorobenzene	1.33	1.07		mg/Kg		80	66 - 117
2,4,5-Trichlorophenol	1.33	1.24		mg/Kg		93	50 - 120
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-579174/2-A
Matrix: Solid
Analysis Batch: 579272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579174

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	110		43 - 145
2-Fluorophenol	77		31 - 166
Nitrobenzene-d5	99		37 - 147
Phenol-d5	90		30 - 153
Terphenyl-d14	92		42 - 157
2,4,6-Tribromophenol	89		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-579019/1-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579019

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Barium	<0.11		1.0	0.11	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Copper	<0.28		1.0	0.28	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Iron	<10		20	10	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Lead	<0.23		0.50	0.23	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Magnesium	<5.0		10	5.0	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Calcium	12.9	J	20	3.4	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Silver	<0.13		0.50	0.13	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Potassium	<18		50	18	mg/Kg		12/30/20 06:38	01/04/21 17:12	1
Sodium	<15		100	15	mg/Kg		12/30/20 06:38	01/04/21 17:12	1

Lab Sample ID: LCS 500-579019/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579019

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	44.3		mg/Kg		89		80 - 120
Arsenic	10.0	9.74		mg/Kg		97		80 - 120
Barium	200	198		mg/Kg		99		80 - 120
Beryllium	5.00	4.95		mg/Kg		99		80 - 120
Cadmium	5.00	4.75		mg/Kg		95		80 - 120
Chromium	20.0	19.9		mg/Kg		100		80 - 120
Cobalt	50.0	50.7		mg/Kg		101		80 - 120
Copper	25.0	24.6		mg/Kg		99		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-579019/2-A
Matrix: Solid
Analysis Batch: 579576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.83		mg/Kg		98	80 - 120
Magnesium	1000	994		mg/Kg		99	80 - 120
Calcium	1000	1030		mg/Kg		103	80 - 120
Manganese	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	50.0		mg/Kg		100	80 - 120
Selenium	10.0	8.85		mg/Kg		89	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Thallium	10.0	9.95		mg/Kg		100	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	49.6		mg/Kg		99	80 - 120
Potassium	1000	965		mg/Kg		97	80 - 120
Sodium	1000	984		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Nickel	0.500	0.541		mg/L		108	80 - 120
Silver	0.0500	0.0549		mg/L		110	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120

Lab Sample ID: LCS 500-579532/2-A
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.050		0.50	0.050	mg/L		01/04/21 17:53	01/05/21 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/21 17:53	01/05/21 23:59	1
Magnesium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Calcium	<0.50		5.0	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/05/21 23:59	1
Potassium	<0.50		2.5	0.50	mg/L		01/04/21 17:53	01/05/21 23:59	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/04/21 17:53	01/06/21 21:27	1
Chromium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Cobalt	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Copper	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Iron	<0.20		0.40	0.20	mg/L		01/04/21 17:53	01/06/21 21:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Silver	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Vanadium	<0.010		0.025	0.010	mg/L		01/04/21 17:53	01/06/21 21:27	1
Zinc	0.0239	J	0.50	0.020	mg/L		01/04/21 17:53	01/06/21 21:27	1

Lab Sample ID: LB 500-579346/1-C
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 579532

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/21 17:53	01/07/21 17:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/04/21 17:53	01/07/21 17:55	1

Lab Sample ID: 500-192923-1 MS
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: 3972-COV-25-B01 (0-1)
Prep Type: TCLP
Prep Batch: 579532

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Barium	0.34	J	0.500	0.812		mg/L		95	75 - 125
Beryllium	<0.0040		0.0500	0.0497		mg/L		99	75 - 125
Magnesium	40		10.0	51.2	4	mg/L		107	75 - 125
Calcium	120		10.0	131	4	mg/L		127	75 - 125
Manganese	0.057		0.500	0.532		mg/L		95	75 - 125
Potassium	0.96	J	10.0	11.7		mg/L		108	75 - 125

Lab Sample ID: 500-192923-1 MS
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: 3972-COV-25-B01 (0-1)
Prep Type: TCLP
Prep Batch: 579532

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Arsenic	<0.010		0.100	0.113		mg/L		113	75 - 125

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-192923-1 MS
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: 3972-COV-25-B01 (0-1)
Prep Type: TCLP
Prep Batch: 579532

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Cadmium	<0.0020		0.0500	0.0538		mg/L		108	75 - 125	
Chromium	<0.010		0.200	0.203		mg/L		101	75 - 125	
Cobalt	<0.010		0.500	0.540		mg/L		108	75 - 125	
Copper	<0.010		0.250	0.269		mg/L		107	75 - 125	
Iron	<0.20		1.00	1.19		mg/L		119	75 - 125	
Nickel	<0.010	^+	0.500	0.541	^+	mg/L		108	75 - 125	
Silver	<0.010		0.0500	0.0546		mg/L		109	75 - 125	
Vanadium	<0.010		0.500	0.521		mg/L		104	75 - 125	
Zinc	0.032	J B **	0.500	0.596		mg/L		113	75 - 125	

Lab Sample ID: 500-192923-1 MS
Matrix: Solid
Analysis Batch: 580182

Client Sample ID: 3972-COV-25-B01 (0-1)
Prep Type: TCLP
Prep Batch: 579532

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Lead	<0.0075		0.100	0.105		mg/L		105	75 - 125	
Selenium	<0.020		0.100	0.117		mg/L		117	75 - 125	

Lab Sample ID: 500-192923-1 DU
Matrix: Solid
Analysis Batch: 579797

Client Sample ID: 3972-COV-25-B01 (0-1)
Prep Type: TCLP
Prep Batch: 579532

Analyte	Sample	Sample	DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Barium	0.34	J	0.336	J	mg/L		0.7	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Magnesium	40		40.0		mg/L		1	20
Calcium	120		117		mg/L		1	20
Manganese	0.057		0.0574		mg/L		0	20
Potassium	0.96	J	0.753	J F5	mg/L		25	20

Lab Sample ID: 500-192923-1 DU
Matrix: Solid
Analysis Batch: 579995

Client Sample ID: 3972-COV-25-B01 (0-1)
Prep Type: TCLP
Prep Batch: 579532

Analyte	Sample	Sample	DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Arsenic	<0.010		<0.010		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Chromium	<0.010		<0.010		mg/L		NC	20
Cobalt	<0.010		<0.010		mg/L		NC	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Nickel	<0.010	^+	<0.010	^+	mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20
Vanadium	<0.010		<0.010		mg/L		NC	20
Zinc	0.032	J B **	0.0300	J *+	mg/L		6	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-192923-1 DU
 Matrix: Solid
 Analysis Batch: 580182

Client Sample ID: 3972-COV-25-B01 (0-1)
 Prep Type: TCLP
 Prep Batch: 579532

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lead	<0.0075		<0.0075		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-579532/2-A
 Matrix: Solid
 Analysis Batch: 579700

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579532

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.500	0.492		mg/L		98	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LB 500-579346/1-C
 Matrix: Solid
 Analysis Batch: 579700

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579532

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/21 17:53	01/05/21 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/21 17:53	01/05/21 12:39	1

Lab Sample ID: 500-192923-1 MS
 Matrix: Solid
 Analysis Batch: 579700

Client Sample ID: 3972-COV-25-B01 (0-1)
 Prep Type: TCLP
 Prep Batch: 579532

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060		0.500	0.496		mg/L		99	75 - 125
Thallium	<0.0020		0.100	0.112		mg/L		112	75 - 125

Lab Sample ID: 500-192923-1 DU
 Matrix: Solid
 Analysis Batch: 579700

Client Sample ID: 3972-COV-25-B01 (0-1)
 Prep Type: TCLP
 Prep Batch: 579532

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-579477/12-A
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 579477

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:01	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-579477/14-A
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579477
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-579346/1-B
 Matrix: Solid
 Analysis Batch: 579681

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 579477

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/04/21 10:25	01/05/21 09:03	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-579093/12-A
 Matrix: Solid
 Analysis Batch: 579294

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 579093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/30/20 13:05	12/31/20 08:17	1

Lab Sample ID: LCS 500-579093/13-A
 Matrix: Solid
 Analysis Batch: 579294

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 579093
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-578930/1-A
 Matrix: Solid
 Analysis Batch: 579127

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 578930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/29/20 14:12	12/29/20 16:00	1

Lab Sample ID: HLCS 500-578930/2-A
 Matrix: Solid
 Analysis Batch: 579127

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578930
 %Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.4		mg/Kg		95	90 - 110

Lab Sample ID: LCS 500-578930/3-A
 Matrix: Solid
 Analysis Batch: 579127

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 578930
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.70		mg/Kg		113	85 - 115

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 500-578930/4-A
Matrix: Solid
Analysis Batch: 579127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578930
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.35		mg/Kg		113	75 - 125

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

GC/MS VOA

Prep Batch: 578788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	5035	

Analysis Batch: 579222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	8260B	578788
MB 500-579222/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-579222/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-579222/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 579174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	3541	
MB 500-579174/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-579174/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 579272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	8270D	579174
MB 500-579174/1-A	Method Blank	Total/NA	Solid	8270D	579174
LCS 500-579174/2-A	Lab Control Sample	Total/NA	Solid	8270D	579174

Metals

Prep Batch: 579019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	3050B	
MB 500-579019/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 579093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	7471B	
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 579294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	7471B	579093
MB 500-579093/12-A	Method Blank	Total/NA	Solid	7471B	579093
LCS 500-579093/13-A	Lab Control Sample	Total/NA	Solid	7471B	579093

Leach Batch: 579346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	TCLP	Solid	1311	
LB 500-579346/1-B	Method Blank	TCLP	Solid	1311	
LB 500-579346/1-C	Method Blank	TCLP	Solid	1311	
500-192923-1 MS	3972-COV-25-B01 (0-1)	TCLP	Solid	1311	
500-192923-1 DU	3972-COV-25-B01 (0-1)	TCLP	Solid	1311	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Metals

Prep Batch: 579477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	TCLP	Solid	7470A	579346
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579346
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 579532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	TCLP	Solid	3010A	579346
LB 500-579346/1-C	Method Blank	TCLP	Solid	3010A	579346
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-192923-1 MS	3972-COV-25-B01 (0-1)	TCLP	Solid	3010A	579346
500-192923-1 DU	3972-COV-25-B01 (0-1)	TCLP	Solid	3010A	579346

Analysis Batch: 579576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	6010B	579019
MB 500-579019/1-A	Method Blank	Total/NA	Solid	6010B	579019
LCS 500-579019/2-A	Lab Control Sample	Total/NA	Solid	6010B	579019

Analysis Batch: 579681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	TCLP	Solid	7470A	579477
LB 500-579346/1-B	Method Blank	TCLP	Solid	7470A	579477
MB 500-579477/12-A	Method Blank	Total/NA	Solid	7470A	579477
LCS 500-579477/14-A	Lab Control Sample	Total/NA	Solid	7470A	579477

Analysis Batch: 579700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	TCLP	Solid	6020A	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6020A	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6020A	579532
500-192923-1 MS	3972-COV-25-B01 (0-1)	TCLP	Solid	6020A	579532
500-192923-1 DU	3972-COV-25-B01 (0-1)	TCLP	Solid	6020A	579532

Analysis Batch: 579796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	6010B	579019

Analysis Batch: 579797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532
500-192923-1 MS	3972-COV-25-B01 (0-1)	TCLP	Solid	6010B	579532
500-192923-1 DU	3972-COV-25-B01 (0-1)	TCLP	Solid	6010B	579532

Analysis Batch: 579995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Metals (Continued)

Analysis Batch: 579995 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1 MS	3972-COV-25-B01 (0-1)	TCLP	Solid	6010B	579532
500-192923-1 DU	3972-COV-25-B01 (0-1)	TCLP	Solid	6010B	579532

Analysis Batch: 580182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	TCLP	Solid	6010B	579532
LB 500-579346/1-C	Method Blank	TCLP	Solid	6010B	579532
LCS 500-579532/2-A	Lab Control Sample	Total/NA	Solid	6010B	579532
500-192923-1 MS	3972-COV-25-B01 (0-1)	TCLP	Solid	6010B	579532
500-192923-1 DU	3972-COV-25-B01 (0-1)	TCLP	Solid	6010B	579532

General Chemistry

Analysis Batch: 578501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	Moisture	

Analysis Batch: 578810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	9045D	
LCS 500-578810/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-578810/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 578930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	9010C	
MB 500-578930/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-578930/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-578930/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-578930/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 579127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192923-1	3972-COV-25-B01 (0-1)	Total/NA	Solid	9012B	578930
MB 500-578930/1-A	Method Blank	Total/NA	Solid	9012B	578930
HLCS 500-578930/2-A	Lab Control Sample	Total/NA	Solid	9012B	578930
LCS 500-578930/3-A	Lab Control Sample	Total/NA	Solid	9012B	578930
LLCS 500-578930/4-A	Lab Control Sample	Total/NA	Solid	9012B	578930

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Client Sample ID: 3972-COV-25-B01 (0-1)

Lab Sample ID: 500-192923-1

Date Collected: 12/22/20 13:55

Matrix: Solid

Date Received: 12/22/20 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579797	01/06/21 01:20	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	579995	01/06/21 22:51	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6010B		1	580182	01/07/21 19:25	EEN	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	3010A			579532	01/04/21 17:53	BDE	TAL CHI
TCLP	Analysis	6020A		1	579700	01/05/21 13:28	FXG	TAL CHI
TCLP	Leach	1311			579346	12/31/20 18:34	CMS	TAL CHI
TCLP	Prep	7470A			579477	01/04/21 10:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	579681	01/05/21 09:58	MJG	TAL CHI
Total/NA	Analysis	9045D		1	578810	12/28/20 17:56	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	578501	12/24/20 09:43	LWN	TAL CHI

Client Sample ID: 3972-COV-25-B01 (0-1)

Lab Sample ID: 500-192923-1

Date Collected: 12/22/20 13:55

Matrix: Solid

Date Received: 12/22/20 17:22

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			578788	12/23/20 17:29	WRE	TAL CHI
Total/NA	Analysis	8260B		1	579222	12/31/20 18:20	PMF	TAL CHI
Total/NA	Prep	3541			579174	12/30/20 16:55	ACK	TAL CHI
Total/NA	Analysis	8270D		1	579272	12/31/20 12:27	AJD	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579576	01/04/21 18:29	EEN	TAL CHI
Total/NA	Prep	3050B			579019	12/30/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	579796	01/05/21 21:06	EEN	TAL CHI
Total/NA	Prep	7471B			579093	12/30/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	579294	12/31/20 09:22	MJG	TAL CHI
Total/NA	Prep	9010C			578930	12/29/20 14:12	PSP	TAL CHI
Total/NA	Analysis	9012B		1	579127	12/29/20 16:29	PSP	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hanover Park - WO 077

Job ID: 500-192923-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192923-1	3972-COV-25-B01 (0-1)	Solid	12/22/20 13:55	12/22/20 17:22	

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TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5



500-192923 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 19284 change Blvd
Glendale Heights IL
Phone: 630-445-0160
Fax:
E-Mail: Matt.Weiss@Terracon.com

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-192923

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 29.06, 38.735
48.91

Client		Client Project #		Preservative		Parameter		Preservative Key	
Terracon		11207011W						1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
11207011W									
Project Location/State		Lab Project #		Date		Time			
Hansover Park, IL				12/22/20		1355			
Sampler		Lab PM		Date		Time			
D.C. Ph				12/22/20		1355			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix			
1		3972-(01-25-B01(0.1))	12/22/20	1355	6	S.L.	VOC'S	SVOC'S	Total 23 Inorganics/PH
									TECP 23 Inorganics
									SPLD 23 Inorganics

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Vanoy</u> Company: <u>Terracon</u> Date: <u>12/22/2020</u> Time: <u>1610</u>	Received By: <u>J. Vandy</u> Company: <u>EY</u> Date: <u>12/22/20</u> Time: <u>1610</u>
Relinquished By: <u>P. Neal</u> Company: <u>EY</u> Date: <u>12/22/20</u> Time: <u>1712</u>	Received By: <u>Shirley Smith</u> Company: <u>PTA-CH</u> Date: <u>12/23/20</u> Time: <u>0800</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TR
Shipped: _____
Hand Delivered: _____

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

* NO ALUMINUM
* HOLD SPLD 23 INORGANICS
PER TERRACON INSTRUCTION

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-192923-1

Login Number: 192923

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

