Stantec Consulting Services Inc.
12075 Corporate Parkway, Suite 200 Mequon WI 53092

February 15, 2022
File: 193707141

Attention: Joseph Graham
Contaminated Sediments Specialist
Wisconsin Department of Natural Resources
810 West Maple Street
Spooner, Wisconsin 54802-1255

Reference: Summary of Limited Soil Investigation, C. Reiss Coal Dock Property Superior, Wisconsin

Dear Mr. Graham:

During December 2021, Stantec Consulting Services Inc. (Stantec) performed a limited soil investigation on behalf of the C. Reiss Coal Company, LLC (C. Reiss) at C. Reiss Coal Dock property in Superior, Wisconsin (the Property) to evaluate soil quality and materials management options for soils proposed to be disturbed during the development of a future onsite stormwater retention pond. The results of the soil sampling were shared with the Wisconsin Department of Natural Resources (WDNR) during a teleconference on January 20, 2022 and indicated that fill materials present in shallow soils contained Resource Conservation and Recovery Act (RCRA) metals and semi-volatile organic compound (SVOC) constituents at concentrations above Chapter NR 720 Wisconsin Administrative Code (WAC) residual contaminant levels (RCLs). WDNR subsequently requested that Stantec prepare a formal Notification for Hazardous Substance Discharge (Form 4400-225) to track on the Bureau for Remediation and Redevelopment Tracking System. A summary of field investigation methods and results is presented below.

FIELD INVESTIGATION METHODS

On December 9, 2021, Soils and Engineering Services, Inc. advanced five soil borings (SB1 through SB5) to a depth of 10 feet below grade (fbg) at the Property using direct-push dual-tube Geprobe® drilling methods. These soil borings were advanced to evaluate soil quality in an area that is likely to be the location of a future stormwater retention pond and to determine whether future onsite soil management options for the excavated/displaced soils were feasible.

Soil samples were collected continuously from each borehole and were physically examined by a Stantec field geologist for general lithology (percentages of gravel, sand, silt and clay), visible layering, evidence of non-native fill/anthropogenic materials (with estimated percentages of these materials contained in the soil matrix), indications of chemical or other staining, odors, and other distinctive features. Field observations are described on the soil borehole logs provided in **Attachment A**. Following sampling, all soil borings were abandoned in accordance with Chapter NR 141 WAC. Soil borehole abandonment forms are provided in **Attachment B**.

Portions of soil from approximately every two-foot interval were field screened for the presence of VOCs using a photoionization detector (PID) equipped with an 11.7 electron-volt lamp and calibrated to 100 parts per million as isobutylene. PID readings were recorded on the soil boring logs presented in **Attachment A**.

Selection of soil samples for laboratory analysis was based upon depth, presence of fill materials, and field screening readings. Soil samples selected for analysis were placed directly into laboratory-supplied containers, preserved as appropriate, and immediately placed in a cooler on ice for shipping to Eurofins TestAmerica in Pittsburgh, Pennsylvania (State of Wisconsin Laboratory Certification Identification 998027800), under a chain of custody for analysis. Soil sample analyses included VOCs (EPA 8260C), SVOCs (EPA 8270D LL), and RCRA metals (EPA 6020B, EPA 7471B). Soil laboratory analytical results are included in **Attachment C**.

APPLICABLE CLEANUP CRITERIA

Procedures for establishing soil clean-up standards applicable to sites in Wisconsin are specified in NR 720. Soil clean-up standards depend in part on land use. Current and future proposed Property uses are industrial in nature; therefore, soil quality is compared to industrial direct contact standards (IDC), as outlined in the December 2018 Update, version RR-052h, of the WDNR RCL spreadsheet.

As part of the revisions to NR 720, the WDNR adopted use of background threshold values (BTVs) for select metals in soil whose occurrence may be attributable in whole or in part to natural occurrence in Wisconsin soil. BTVs are "non-outlier trace element maximum levels in Wisconsin surface soils" as determined through a state-wide study. BTVs were established for 16 metals, including arsenic and lead. Probably the most significant BTV is the value of 8.0 milligrams per kilogram established for arsenic. This value is significant because the RCLs calculated for the direct contact and groundwater pathways are significantly lower than this value, which in the past resulted in sites with relatively low levels of naturally occurring arsenic significantly exceeding the clean-up levels. If measured levels of arsenic or lead are less than the BTVs, these levels can be attributed to natural occurrence without the need to perform a WDNR-approved site-specific study to determine background levels. Soil quality data are compared to health-based NR 720 RCLs on **Table 1**.

SOIL SAMPLING RESULTS

Surface conditions at the Property were vegetated/rooted topsoil, with anthropogenic fill present from approximately one to three feet below ground surface. The anthropogenic fill presented as a black, granular/sandy matrix with coal and brick pieces (5 – 40%). Apparent native soils beneath the fill layer consisted of sands and clays. All PID measurements were less than 1 instrument unit, and no odors or soil staining were observed in the field. Neither bedrock nor saturated conditions were encountered to a depth of 10 fbg (the maximum depth of investigation). Soil sampling locations are illustrated on **Figure 1**. Tabulated analytical results are compared to applicable NR 720 RCLs on **Table 1** and discussed below.

SVOCs: The concentrations of select SVOCs were present in fill (0 – 3 ft bgs) at concentrations greater than direct contact RCLs. No SVOC constituents were present at concentrations greater than NR 720 RCLs in samples taken from the underlying native soils (4 – 10 ft bgs).

RCRA Metals: Arsenic was present in fill from the southern-most soil boring performed (SB5, 0-2 ft bgs) at a concentration exceeding the BTV, and selenium was detected in fill (0 – 3 ft) at concentrations greater than the soil to groundwater pathway. No RCRA metal constituents were present at concentrations greater than NR 720 RCLs in samples taken from the underlying native soils (4 – 10 ft bgs).

VOCs: No VOCs were detected at concentrations greater than NR 720 RCLs in any soil sample collected.

CONCLUSIONS AND RECOMMENDATIONS

As summarized in **Table 1**, the results of the soil sampling performed in the area of the proposed stormwater retention pond indicate that several SVOC constituents and arsenic are present at concentrations greater than the IDC RCL in fill soils representing the top three feet of the soil column, and that deeper/native soils have no impacts from these constituents from three to 10 feet. No VOC constituents were detected in any soil sample submitted for laboratory analysis. Based on these results, SVOC and metal impacts are attributed to surficial fill soils present at the Property. Materials management options for the fill/soil present onsite pursuant to future Property development will be evaluated in a future report.

Regards,

STANTEC CONSULTING SERVICES INC.

Whitney Cull
Geologic EIT
Whitney.Cull@stantec.com

Stu Gross, PG
Senior Project Manager
Stu.Gross@stantec.com

Enclosures:
Figures:
Figure 1: Soil Sample Locations

Tables:
Table 1: Soil Analytical Results

Attachments:
Attachment A: Soil Borehole Logs
Attachment B: Soil Borehole Abandonment Forms
Attachment C: Laboratory Report

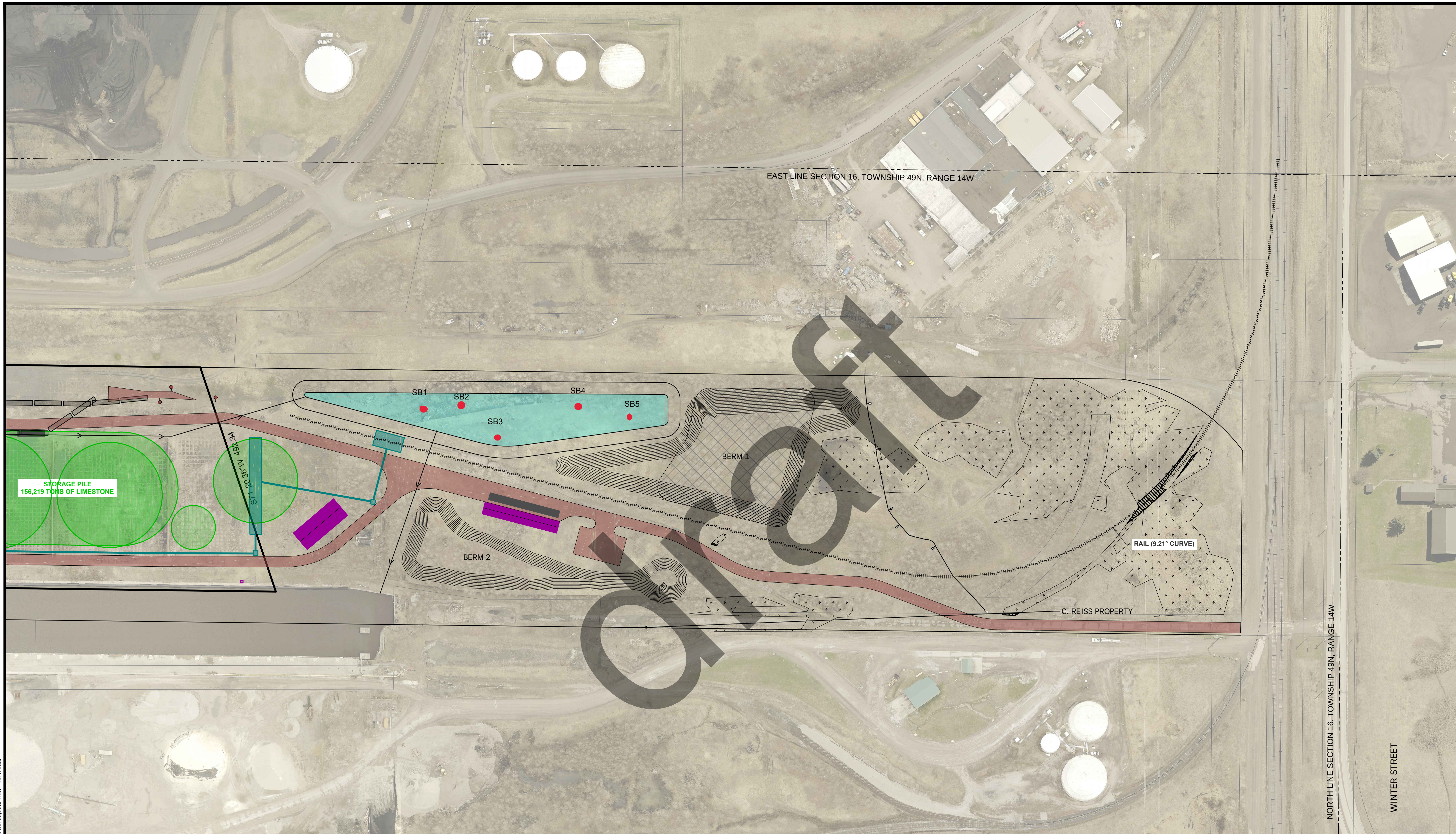
LIMITATIONS

This limited soil subsurface investigation was performed in accordance with generally accepted practices of the profession for performing similar studies at the same time and in the same geographical area. Stantec observed that degree of care and skill generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec observations, findings, and opinions must not be considered as scientific certainties, but only an opinion based on our professional judgment concerning the significance of the data gathered during the course of the investigation. Specifically, Stantec does not and cannot represent that the Site contains no hazardous or toxic materials or other latent condition beyond that observed by Stantec.

Stantec does not warrant that this submittal represents an exhaustive study of all possible environmental concerns at the project area. The items investigated as part of this study represent likely sources of environmental concerns at the project area and are consequently believed to adequately address the public at risk at the present time.

FIGURES



● Soil Sample Location

DREDGE TABLE		
	BERM 1	BERM 2
2D AREA	97,292 sf	55,350 sf
MIN. ELEV. AT BASE	617	608
MAX. ELEV. AT BASE	630	624
TOP OF BERM	637	631
VOLUME*	28,645 cy	10,280 cy

* ASSUMES 33% MOISTURE CONTENT/VOLUME

N

0 100' 200'

Stantec
12075 N. Corporate Parkway, Suite 200
Mequon, WI 53092
www.stantec.com

SOIL SAMPLE LOCATIONS

C. REISS COAL DOCK
C. REISS COAL COMPANY, LLC
ST. LOUIS BAY, SUPERIOR, WI

DATE OF ISSUANCE		
ISSUE DATE		
NO	REVISION	DATE

SURVEY	K & O
DRAWN	AJR
DESIGNED	AJR
CHECKED	BSL
APPROVED	BSL
PROJ. NO.	193707141

SHEET NUMBER
1

Plot Date: 03/09/2021 - 3:52pm
Drawing name: V:\1937\active\193707141\03_data\gis_cad\cad\dwg\SHEETS\193707141Dredge.dwg
Xrefs:, 193707141_XSNV, 193707141_XSXT, 193707141_TB-34x22-Mequon, 171216-Conceptual 4 new Piles-Model

Stantec

TABLES

Table 1: Soil Analytical Results
C. Reiss Coal Dock
Superior, Wisconsin

Sample Location						SB1		SB2		SB3			SB4		SB5	
Sample Date						12/9/2021	12/9/2021	12/9/2021	12/9/2021	12/9/2021	12/9/2021	12/9/2021	12/9/2021	12/9/2021	12/9/2021	12/9/2021
Sample ID						SB1 1-3	SB1 5-7	SB2 0-2	SB2 8-10	SB3 0-2	SB3 4-6	DUP3	SB4 2-4	SB4 6-8	SB5 0-2	SB5 4-6
Sample Depth (feet below ground surface)		Wisconsin RCL Direct Contact Industrial	Wisconsin RCL Direct Contact Non-Industrial	Wisconsin RCL Soil to Groundwater	Wisconsin SBTV	1-3 ft	5-7 ft	0-2 ft	8-10 ft	0-2 ft	4-6 ft	4-6 ft	2-4 ft	6-8 ft	0-2 ft	4-6 ft
Laboratory Sample ID						180-131094-17	180-131094-18	180-131094-19	180-131094-20	180-131094-21	180-131094-22	180-131094-23	180-131094-24	180-131094-25	180-131094-26	180-131094-27
Sample Type	Units					Soil	Soil	Soil	Soil	Soil	Soil	Field Duplicate	Soil	Soil	Soil	Soil
Detected Resource Conservation and Recovery Act Metals																
Arsenic	mg/kg	**8.3*** [3]	**8.3*** [0.677]	**8.3*** [0.584]	8.3	8.2 F1	2	6.4	2.4	2.7	1.5	-	2.7	2.4	**9.9**	3.2
Barium	mg/kg	100,000	15,300	**364*** [164.8]	364	124	20	63	44	57.1	12.6	-	120	101	76.6	89.3
Cadmium	mg/kg	985	71.1	**1*** [0.752]	1	0.27	0.074	0.26	0.07 J	0.1	0.035 J	-	0.091	0.06 J	0.35	0.08
Chromium	mg/kg	100,000	100,000	360,000	44	10.9 F1	10.3	13.2	12.8	9.4	6.4	-	29.1	28.7	7.5	17.9
Silver	mg/kg	5,840	391	0.849	n/v	0.049 J F1	<0.018	0.039 J	0.019 J	0.019 J	<0.019	-	<0.022	0.026 J	0.29	0.044 J
Lead	mg/kg	800	400	**51.6*** [27]	51.6	37.7 F1	2.6	36.6	3.4	8.4	1.7	-	6.8	5.8	75.3	11.6
Selenium	mg/kg	5,840	391	0.52	n/v	**0.64 F1**	<0.081	**0.64**	<0.087	0.18 J	<0.087	-	<0.098	<0.10	**0.87**	0.21 J
Mercury	mg/kg	3.13	3.13	0.208	n/v	0.074	<0.023	0.026 J	<0.024	<0.024	<0.019	-	<0.025	<0.022	0.063	<0.022
Detected Volatile Organic Compounds																
Fifty-eight (58) constituents analyzed	µg/kg	Various	Various	Various	n/v	No volatile organic compound constituents were detected in any soil sample submitted to the analytical laboratory.										
Detected Semi-Volatile Organic Compounds																
2-Methylnaphthalene	µg/kg	3,010,000	239,000	n/v	n/v	720	<1.8	540	<2.0	160	<1.6	<1.6	<2.0	<2.0	930	16
Acenaphthene	µg/kg	45,200,000	3,590,000	n/v	n/v	910	<2.2	300 J	<2.4	28 J	<1.9	<2.0	<2.4	<2.4	540	28
Acenaphthylene	µg/kg	n/v	n/v	n/v	n/v	480	<1.6	<81	<1.8	<17	<1.5	<1.5	<1.9	<1.8	<93	9.1
Anthracene	µg/kg	100,000,000	17,900,000	196,949	n/v	2,400	<1.9	930	<2.2	66 J	<1.7	<1.8	<2.2	<2.2	1,500	53
Benzo[a]anthracene	µg/kg	20,800	1,140	n/v	n/v	7,000	<3.4	**2,500**	<3.8	250	<3.0	<3.1	<3.8	<3.7	**4,400**	88
Benzo[b]fluoranthene	µg/kg	21,100	1,150	478	n/v	**7,700**	<1.8	**2,500**	<2.1	310	<1.7	<1.7	<2.1	<2.0	**4,100**	100
Benzo[k]fluoranthene	µg/kg	211,000	11,500	n/v	n/v	2,300	<2.3	1,300	<2.5	64 J	<2.0	<2.0	<2.6	<2.5	1,600	26
Benzo[g,h,i]perylene	µg/kg	n/v	n/v	n/v	n/v	4,200	2.2 J	2,500	<1.8	250	<1.5	<1.5	<1.8	<1.8	3,100	51
Benzo[a]pyrene	µg/kg	2,110	115	470	n/v	**5,700**	<3.3	**2,100**	<3.6	**240**	<2.9	<3.0	<3.7	<3.6	**3,300**	75
Chrysene	µg/kg	2,110,000	115,000	144	n/v	**7,400**	<4.2	**3,000**	<4.6	**320**	<3.7	<3.8	<4.7	<4.6	**4,400**	95
Dibenz(a,h)anthracene	µg/kg	2,110	115	n/v	n/v	**1,200**	<4.8	**510**	<5.4	57 J	<4.3	<4.4	<5.4	<5.3	**820**	9.6
Dibenzofuran	µg/kg	1,040,000	73,000	n/v	n/v	<740	<14	<680	<15	<140	<12	<13	<16	<15	<780	20 J
Fluoranthene	µg/kg	30,100,000	2,390,000	88,878	n/v	13,000	<2.0	4,100	<2.2	380	<1.8	1.8 J	<2.2	<2.2	6,800	210
Fluorene	µg/kg	30,100,000	2,390,000	14,830	n/v	870	<1.5	350 J	<1.6	19 J	<1.3	<1.3	<1.7	<1.6	530	31
Indeno[1,2,3-cd]pyrene	µg/kg	21,100	1,150	n/v	n/v	**3,600**	<3.7	**1,400**	<4.2	160	<3.3	<3.4	<4.2	<4.1	**2,200**	44
Naphthalene	µg/kg	24,100	5,520	658	n/v	**850**	<1.5	470	<1.6	130	<1.3	<1.3	<1.7	<1.6	**820**	18
Phenanthrene	µg/kg	n/v	n/v	n/v	n/v	11,000	4.8 J	4,400	<2.2	390	<1.8	2.1 J	<2.3	<2.2	6,400	270
Pyrene	µg/kg	22,600,000	1,790,000	54,546	n/v	13,000	6.1 J	4,500	<2.0	450	<1.6	2.6 J	<2.0	<2.0	7,100	230
Benzo[e]pyrene	µg/kg	n/v	n/v	n/v	n/v	4,200	<15 F1	2,000	<17	230 J	<14	<14	<17	<17	2,900	49

Notes:

WISCONSIN SBTV	Wisconsin Soil Background Threshold Value
WISCONSIN RCL	Wisconsin Soil Residual Contaminant Levels (Ch. NR 720 WAC, 2018)
	Concentration exceeds Wisconsin Direct Contact Industrial RCL
	Concentration exceeds Wisconsin Direct Contact Non-Industrial RCL
	Concentration exceeds Wisconsin Soil to Groundwater RCL
15.2	Measured concentration did not exceed the indicated standard
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit
n/v	No standard/guideline value
-	Parameter not analyzed
F1	Matrix spike and/or duplicate recovery exceeds control limits
J	The reported result is an estimated value
ft	Feet below grade
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
XX* [XXX]	Standard in bold is the SBTV being used for the purpose of evaluation under ch. NR700 WAC. The established WAC RCL is noted in brackets

ATTACHMENT A

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C. Reiss Coal Dock	N/A	SB1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils & Engineering Services, Inc.	12/9/2021	12/9/2021	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
SB1			Feet MSL	Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W
Lat 46 ° 43 ' 58.4 "
Long 92 ° 7 ' 15.9 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Douglas	16	Superior

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0-1	48 24		0	ROOTED TOPSOIL & FILL, brown, moist, coal pieces (~10%), no odor.				0.2						
1-3			1	SAND & FILL, sand is dark brown, moist, medium-to-fine. Fill (~40%) is black, granular, includes coal and brick pieces. No odor.				0.1						
			2											
3-5			3	FILL, black, moist, includes coal, cinders, slag and brick, fine black matrix of same material. No odor.				0.1						
			4	CLAY, red-brown, moist, medium-stiff, plastic, no odor.										
	48 36			GRAVELLY SAND & FILL, sand is dark brown, medium-to fine, moist. Gravels are round, 3/4 - 1 1/2". Fill (~40%) is black, granular, includes coal and brick pieces. No odor.										
5-7			5					0.0						
			6											
				SAND, yellow-brown, moist, medium-to-fine, rounded, no odor.										
7-9			7		SP			0.0						
	24 24		8											
9-10			9					0.0						
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Whitney Cull	Stantec	Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

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Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C. Reiss Coal Dock	N/A	SB2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils & Engineering Services, Inc.	12/9/2021	12/9/2021	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
SB2			Feet MSL	Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W
Lat 46 ° 43 ' 56.2 "
Long 92 ° 7 ' 15.2 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Douglas	16	Superior

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0-2	48 24		0 1	ROOTED TOPSOIL, brown, moist, no odor. FILL SAND, black with organics, moist, fine, some small coal pieces, no odor.				0.0						
2-4			2 3	CLAY, red-brown, moist, medium-soft, moderately plastic, some siltiness ~2', no odor.	CH			0.0						
4-6	48 36		4 5	SILTY/CLAYEY SAND, red-brown, moist, no odor. CLAY, red-brown, moist, medium-soft, moderately plastic, no odor.	SC CH			0.0						
6-8			6 7	CLAYEY SILT, red-brown, moist, no odor.				0.0						
8-10	24 24		8 9 10		ML			0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Whitney Cull Firm Stantec Tel: Fax:

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State of Wisconsin
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SOIL BORING LOG INFORMATION
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C. Reiss Coal Dock	N/A	SB3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils & Engineering Services, Inc.	12/9/2021	12/9/2021	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
SB3			Feet MSL	Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W
Lat 46 ° 43 ' 53.7 "
Long 92 ° 7 ' 16.9 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Douglas	16	Superior

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0-2	48 36		0 1	ROOTED TOPSOIL & FILL, black/dark brown, moist, coal pieces (~5%), no odor. SAND, red-brown, moist, fine, no odor.				0.0						
2-4			2 3		SP			0.0						
4-6	48 42		4 5	SAND, red-brown, moist, medium-to-coarse, rounded, no odor.	SP			0.0						
6-8			6 7					0.0						
8-10	24 24		8 9 10	CLAY, red-brown, moist, medium-stiff, plastic, no odor. SILTY CLAY, red-brown, moist, lean, no odor.	CH CL-ML			0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Whitney Cull	Stantec	Fax:

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C. Reiss Coal Dock	N/A	SB4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils & Engineering Services, Inc.	12/9/2021	12/9/2021	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
SB4			Feet MSL	Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W
Lat 46 ° 43 ' 51.9 "
Long 92 ° 7 ' 16.1 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Douglas	16	Superior

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0-2	48 18		0 1	ROOTED TOPSOIL & FILL, black, moist, coal pieces, no odor. CLAY, red-brown, moist, medium-stiff, plastic, no odor.				0.0						
2-4			2 3					0.0						
4-6	48 48		4 5		CH			0.0						
6-8			6 7					0.0						
8-10	24 24		8 9 10					0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Whitney Cull Firm Stantec Tel: Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C. Reiss Coal Dock	N/A	SB5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Scott Klumb Soils & Engineering Services, Inc.	12/9/2021	12/9/2021	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
SB5			Feet MSL	Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/©/N
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W
Lat 46 ° 43 ' 49.2 "
Long 92 ° 7 ' 16.3 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Douglas	16	Superior

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0-2	48 24		1	ROOTED TOPSOIL & FILL, black, moist, fine matrix with small coal pieces (~10%) and roots, no odor.				0.0						
2-4			2 3	CLAYEY SILT, red-brown, moist, lean, no odor.	ML			0.0						
4-6	48 24		4 5					0.0						
				CLAY, red-brown, moist, medium-stiff, moderately lean, no odor.										
6-8			6 7		CL			0.0						
				CLAY, red-brown, moist, medium-stiff, plastic, no odor.										
8-10	24 12		8 9 10		CH			0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Whitney Cull Firm Stantec Tel: Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Stantec

ATTACHMENT B

Design with community in mind

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Douglas	SB1	

Lattitude / Longitude (Degrees and Minutes): 46 ° 43 ' 58.4 N / 92 ° 7 ' 15.9 W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	16	49	14 ☐ E ☒ W

or Gov't Lot #:

Well Street Address: 3200 Winter Street

Well City, Village or Town	Well ZIP Code
Superior	54880

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil borehole abandonment	

2. Facility / Owner Information

Facility Name: C. Reiss Coal Dock
Facility ID (FID or PWS):
License/Permit/Monitoring #: N/A
Original Well Owner:
Present Well Owner: C. Reiss Coal Company
Mailing Address of Present Owner: 111 West Mason Street

City of Present Owner	State	ZIP Code
Green Bay	WI	54303

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date: 12/9/2021
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.3	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.4	N/A

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Soils & Engineering Services, Inc.		12/9/2021

Street or Route	Telephone Number
1102 Stewart Street	(608) 274 - 7600

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53713	Whitney Cull	12/9/2021

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Douglas	SB2	

Lattitude / Longitude (Degrees and Minutes): 46 ° 43 ' 56.2 N / 92 ° 7 ' 15.2 W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	16	49	14 ☐ E ☒ W

or Gov't Lot #:

Well Street Address: 3200 Winter Street

Well City, Village or Town	Well ZIP Code
Superior	54880

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil borehole abandonment	

2. Facility / Owner Information

Facility Name: C. Reiss Coal Dock
Facility ID (FID or PWS):
License/Permit/Monitoring #: N/A
Original Well Owner:
Present Well Owner: C. Reiss Coal Company
Mailing Address of Present Owner: 111 West Mason Street

City of Present Owner	State	ZIP Code
Green Bay	WI	54303

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date: 12/9/2021
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.3	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.4	N/A

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Soils & Engineering Services, Inc.		12/9/2021

Street or Route	Telephone Number
1102 Stewart Street	(608) 274 - 7600

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53713	Whitney Cull	12/9/2021

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Douglas	SB3	

Lattitude / Longitude (Degrees and Minutes): 46 ° 43 ' 53.7 N / 92 ° 7 ' 16.9 W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	16	49	14 ☐ E ☒ W

or Gov't Lot #:

Well Street Address: 3200 Winter Street

Well City, Village or Town	Well ZIP Code
Superior	54880

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil borehole abandonment	

2. Facility / Owner Information

Facility Name: C. Reiss Coal Dock
Facility ID (FID or PWS):
License/Permit/Monitoring #: N/A
Original Well Owner:
Present Well Owner: C. Reiss Coal Company
Mailing Address of Present Owner: 111 West Mason Street

City of Present Owner	State	ZIP Code
Green Bay	WI	54303

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date: 12/9/2021
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.3	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, (Sacks) Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.4	N/A

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Soils & Engineering Services, Inc.		12/9/2021

Street or Route	Telephone Number
1102 Stewart Street	(608) 274 - 7600

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53713	Whitney Cull	12/9/2021

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Douglas	SB4	

Lattitude / Longitude (Degrees and Minutes): 46 ° 43 ' 51.9 N, 92 ° 7 ' 16.1 W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	16	49	14 ☐ E ☒ W

or Gov't Lot #:

Well Street Address: 3200 Winter Street

Well City, Village or Town	Well ZIP Code
Superior	54880

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil borehole abandonment	

2. Facility / Owner Information

Facility Name: C. Reiss Coal Dock
Facility ID (FID or PWS):
License/Permit/Monitoring #: N/A
Original Well Owner:
Present Well Owner: C. Reiss Coal Company
Mailing Address of Present Owner: 111 West Mason Street

City of Present Owner	State	ZIP Code
Green Bay	WI	54303

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date: 12/9/2021
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.3	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.4	N/A

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Soils & Engineering Services, Inc.		12/9/2021

Street or Route	Telephone Number
1102 Stewart Street	(608) 274 - 7600

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53713	Whitney Cull	12/9/2021

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Douglas	SB5	

Lattitude / Longitude (Degrees and Minutes): 46 ° 43 ' 49.2 N / 92 ° 7 ' 16.3 W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	16	49	14 ☐ E ☒ W

or Gov't Lot #:

Well Street Address: 3200 Winter Street

Well City, Village or Town	Well ZIP Code
Superior	54880

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil borehole abandonment	

2. Facility / Owner Information

Facility Name: C. Reiss Coal Dock
Facility ID (FID or PWS):
License/Permit/Monitoring #: N/A
Original Well Owner:
Present Well Owner: C. Reiss Coal Company
Mailing Address of Present Owner: 111 West Mason Street

City of Present Owner	State	ZIP Code
Green Bay	WI	54303

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date: 12/9/2021
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.3	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.4	N/A

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Soils & Engineering Services, Inc.		12/9/2021

Street or Route	Telephone Number
1102 Stewart Street	(608) 274 - 7600

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53713	Whitney Cull	12/9/2021

DNR Use Only

Date Received	Noted By

Comments:

ATTACHMENT C

Note: The original report for Job Number 180-131094-1 included sampling for sediment and elutriate from the C. Reiss Coal Dock slip. **This attachment is an amended version of the original 3033-page report**, and includes only data relevant to soil sampling.

eurofins | Environment Testing America

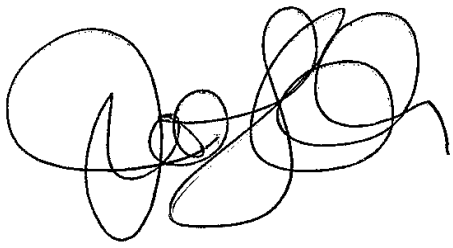
ANALYTICAL REPORT

Job Number: 180-131094-1

Job Description: C Reiss Coal Dock

For:
Stantec Consulting Corp.
12075 Corporate Pkwy, Suite 200
Mequon, WI 53092

Attention: Rex Key



Approved for release.
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Project Manager I
1/13/2022 11:01 AM

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01/13/2022
Revision: 1

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F1	MS and/or MSD recovery exceeds control limits.
J	Reported value was between the limit of detection and the limit of quantitation.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Reported value was between the limit of detection and the limit of quantitation.

General Chemistry

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Samples outlined in purple were taken as part of sediment/ elutriate sampling, and are not relevant to this soil report.

Client Sample ID: EB2 — Lab Sample ID: 180-131094-11

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.19		0.18	0.053	ug/L	1		EPA 8270D LL	Total/NA

Client Sample ID: EB1 — Lab Sample ID: 180-131094-12

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.17	J	0.20	0.057	ug/L	1		EPA 8270D LL	Total/NA

Client Sample ID: SITE WATER 1 — Lab Sample ID: 180-131094-13

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.18	J	0.19	0.055	ug/L	1		EPA 8270D LL	Total/NA

Client Sample ID: TB1 — Lab Sample ID: 180-131094-14

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.13	J	0.19	0.055	ug/L	1		EPA 8270D LL	Total/NA

Client Sample ID: TB2 — Lab Sample ID: 180-131094-15

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.12	J	0.19	0.059	ug/L	1		EPA 8270D LL	Total/NA
Phenanthrene	0.19		0.19	0.055	ug/L	1		EPA 8270D LL	Total/NA

Client Sample ID: TB3 — Lab Sample ID: 180-131094-16

No Detections.

Client Sample ID: SB1 1-3 — Lab Sample ID: 180-131094-17

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	720		410	97	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Acenaphthene	910		410	120	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Acenaphthylene	480		410	88	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Anthracene	2400		410	100	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	7000		410	180	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	7700		410	99	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	2300		410	120	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	4200		410	87	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	5700		410	170	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Chrysene	7400		410	220	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	1200		410	260	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Fluoranthene	13000		410	110	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Fluorene	870		410	79	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	3600		410	200	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Naphthalene	850		410	79	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Phenanthrene	11000		410	110	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Pyrene	13000		410	96	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[e]pyrene	4200		2000	810	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Arsenic	8.2	F1	0.097	0.031	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	124		0.97	0.12	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.27		0.097	0.016	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	10.9	F1	0.20	0.082	mg/Kg	1	☼	EPA 6020B	Total/NA
Silver	0.049	J F1	0.097	0.026	mg/Kg	1	☼	EPA 6020B	Total/NA
Lead	37.7	F1	0.097	0.097	mg/Kg	1	☼	EPA 6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Client Sample ID: SB1 1-3 (Continued) — Lab Sample ID: 180-131094-17

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.64	F1	0.48	0.12	mg/Kg	1	☼	EPA 6020B	Total/NA
Mercury	0.074		0.036	0.023	mg/Kg	1	☼	EPA 7471B	Total/NA

Client Sample ID: SB1 5-7 — Lab Sample ID: 180-131094-18

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	2.2	J	7.5	1.6	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Phenanthrene	4.8	J	7.5	2.0	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Pyrene	6.1	J	7.5	1.8	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Arsenic	2.0		0.066	0.021	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	20.0		0.66	0.085	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.074		0.066	0.011	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	10.3		0.19	0.078	mg/Kg	1	☼	EPA 6020B	Total/NA
Lead	2.6		0.066	0.066	mg/Kg	1	☼	EPA 6020B	Total/NA

Client Sample ID: SB2 0-2 — Lab Sample ID: 180-131094-19

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	540		370	89	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Acenaphthene	300	J	370	110	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Anthracene	930		370	96	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	2500		370	170	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	2500		370	91	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	1300		370	110	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	2500		370	80	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	2100		370	160	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Chrysene	3000		370	200	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	510		370	240	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Fluoranthene	4100		370	97	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Fluorene	350	J	370	72	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	1400		370	180	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Naphthalene	470		370	72	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Phenanthrene	4400		370	99	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Pyrene	4500		370	87	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[e]pyrene	2000		1800	740	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Arsenic	6.4		0.063	0.020	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	63.0		0.63	0.081	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.26		0.063	0.011	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	13.2		0.18	0.074	mg/Kg	1	☼	EPA 6020B	Total/NA
Silver	0.039	J	0.063	0.017	mg/Kg	1	☼	EPA 6020B	Total/NA
Lead	36.6		0.063	0.063	mg/Kg	1	☼	EPA 6020B	Total/NA
Selenium	0.64		0.31	0.077	mg/Kg	1	☼	EPA 6020B	Total/NA
Mercury	0.026	J	0.037	0.024	mg/Kg	1	☼	EPA 7471B	Total/NA

Client Sample ID: SB2 8-10 — Lab Sample ID: 180-131094-20

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.4		0.072	0.023	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	44.0		0.72	0.092	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.070	J	0.072	0.012	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	12.8		0.15	0.061	mg/Kg	1	☼	EPA 6020B	Total/NA
Silver	0.019	J	0.072	0.019	mg/Kg	1	☼	EPA 6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB2 8-10 (Continued) — Lab Sample ID: 180-131094-20

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Lead	3.4		0.072	0.072	mg/Kg	1	☼	EPA 6020B	Total/NA

Client Sample ID: SB3 0-2 — Lab Sample ID: 180-131094-21

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	160		77	18	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Acenaphthene	28	J	77	22	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Anthracene	66	J	77	20	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	250		77	35	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	310		77	19	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	64	J	77	23	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	250		77	17	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	240		77	33	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Chrysene	320		77	43	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	57	J	77	49	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Fluoranthene	380		77	20	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Fluorene	19	J	77	15	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	160		77	38	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Naphthalene	130		77	15	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Phenanthrene	390		77	21	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Pyrene	450		77	18	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[e]pyrene	230	J	380	150	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Arsenic	2.7		0.060	0.019	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	57.1		0.60	0.077	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.10		0.060	0.010	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	9.4		0.17	0.072	mg/Kg	1	☼	EPA 6020B	Total/NA
Silver	0.019	J	0.060	0.016	mg/Kg	1	☼	EPA 6020B	Total/NA
Lead	8.4		0.060	0.060	mg/Kg	1	☼	EPA 6020B	Total/NA
Selenium	0.18	J	0.30	0.073	mg/Kg	1	☼	EPA 6020B	Total/NA

Client Sample ID: SB3 4-6 — Lab Sample ID: 180-131094-22

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.5		0.072	0.023	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	12.6		0.72	0.092	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.035	J	0.072	0.012	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	6.4		0.15	0.062	mg/Kg	1	☼	EPA 6020B	Total/NA
Lead	1.7		0.072	0.072	mg/Kg	1	☼	EPA 6020B	Total/NA

Client Sample ID: DUP3 — Lab Sample ID: 180-131094-23

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1.8	J	6.9	1.8	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Phenanthrene	2.1	J	6.9	1.8	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Pyrene	2.6	J	6.9	1.6	ug/Kg	1	☼	EPA 8270D LL	Total/NA

Client Sample ID: SB4 2-4 — Lab Sample ID: 180-131094-24

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		0.080	0.026	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	120		0.80	0.10	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.091		0.080	0.014	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	29.1		0.25	0.10	mg/Kg	1	☼	EPA 6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB4 2-4 (Continued) — Lab Sample ID: 180-131094-24

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Lead	6.8		0.080	0.080	mg/Kg	1	☼	EPA 6020B	Total/NA

Client Sample ID: SB4 6-8 — Lab Sample ID: 180-131094-25

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.4		0.084	0.027	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	101		0.84	0.11	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.060	J	0.084	0.014	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	28.7		0.20	0.082	mg/Kg	1	☼	EPA 6020B	Total/NA
Silver	0.026	J	0.084	0.023	mg/Kg	1	☼	EPA 6020B	Total/NA
Lead	5.8		0.084	0.084	mg/Kg	1	☼	EPA 6020B	Total/NA

Client Sample ID: SB5 0-2 — Lab Sample ID: 180-131094-26

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	930		430	100	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Acenaphthene	540		430	120	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Anthracene	1500		430	110	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	4400		430	190	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	4100		430	100	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	1600		430	130	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	3100		430	91	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	3300		430	180	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Chrysene	4400		430	240	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	820		430	270	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Fluoranthene	6800		430	110	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Fluorene	530		430	83	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	2200		430	210	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Naphthalene	820		430	83	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Phenanthrene	6400		430	110	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Pyrene	7100		430	100	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Benzo[e]pyrene	2900		2100	850	ug/Kg	50	☼	EPA 8270D LL	Total/NA
Arsenic	9.9		0.083	0.027	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	76.6		0.83	0.11	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.35		0.083	0.014	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	7.5		0.18	0.074	mg/Kg	1	☼	EPA 6020B	Total/NA
Silver	0.29		0.083	0.022	mg/Kg	1	☼	EPA 6020B	Total/NA
Lead	75.3		0.083	0.083	mg/Kg	1	☼	EPA 6020B	Total/NA
Selenium	0.87		0.41	0.10	mg/Kg	1	☼	EPA 6020B	Total/NA
Mercury	0.063		0.036	0.023	mg/Kg	1	☼	EPA 7471B	Total/NA

Client Sample ID: SB5 4-6 — Lab Sample ID: 180-131094-27

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	16		8.1	1.9	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Acenaphthene	28		8.1	2.3	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Acenaphthylene	9.1		8.1	1.8	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Anthracene	53		8.1	2.1	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	88		8.1	3.7	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	100		8.1	2.0	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	26		8.1	2.4	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	51		8.1	1.7	ug/Kg	1	☼	EPA 8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB5 4-6 (Continued)

Lab Sample ID: 180-131094-27

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	75		8.1	3.5	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Chrysene	95		8.1	4.5	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	9.6		8.1	5.2	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Dibenzofuran	20	J	40	15	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Fluoranthene	210		8.1	2.1	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Fluorene	31		8.1	1.6	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	44		8.1	4.0	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Naphthalene	18		8.1	1.6	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Phenanthrene	270		8.1	2.2	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Pyrene	230		8.1	1.9	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Benzo[e]pyrene	49		40	16	ug/Kg	1	☼	EPA 8270D LL	Total/NA
Arsenic	3.2		0.074	0.024	mg/Kg	1	☼	EPA 6020B	Total/NA
Barium	89.3		0.74	0.095	mg/Kg	1	☼	EPA 6020B	Total/NA
Cadmium	0.080		0.074	0.013	mg/Kg	1	☼	EPA 6020B	Total/NA
Chromium	17.9		0.19	0.080	mg/Kg	1	☼	EPA 6020B	Total/NA
Silver	0.044	J	0.074	0.020	mg/Kg	1	☼	EPA 6020B	Total/NA
Lead	11.6		0.074	0.074	mg/Kg	1	☼	EPA 6020B	Total/NA
Selenium	0.21	J	0.37	0.091	mg/Kg	1	☼	EPA 6020B	Total/NA

Client Sample ID: EB3

Lab Sample ID: 180-131094-28

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.10	J	0.18	0.053	ug/L	1		EPA 8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: TB3
Date Collected: 12/09/21 00:00
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-16
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.5		5.0	2.5	ug/L			12/21/21 18:22	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			12/21/21 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.9		5.0	1.9	ug/L			12/21/21 18:22	1
1,1,2-Trichloroethane	<2.4		5.0	2.4	ug/L			12/21/21 18:22	1
1,1-Dichloroethane	<1.8		5.0	1.8	ug/L			12/21/21 18:22	1
1,1-Dichloroethene	<2.9		5.0	2.9	ug/L			12/21/21 18:22	1
1,2,4-Trichlorobenzene	<3.7	^c	5.0	3.7	ug/L			12/21/21 18:22	1
1,2-Dibromo-3-Chloropropane	<3.1		5.0	3.1	ug/L			12/21/21 18:22	1
1,2-Dichlorobenzene	<2.0		5.0	2.0	ug/L			12/21/21 18:22	1
1,2-Dichloroethane	<1.5		5.0	1.5	ug/L			12/21/21 18:22	1
1,2-Dichloropropane	<2.5		5.0	2.5	ug/L			12/21/21 18:22	1
1,3-Dichlorobenzene	<1.6		5.0	1.6	ug/L			12/21/21 18:22	1
1,4-Dichlorobenzene	<1.0		5.0	1.0	ug/L			12/21/21 18:22	1
2-Butanone (MEK)	<2.9		5.0	2.9	ug/L			12/21/21 18:22	1
2-Hexanone	<4.2		5.0	4.2	ug/L			12/21/21 18:22	1
4-Methyl-2-pentanone (MIBK)	<1.9	^c	5.0	1.9	ug/L			12/21/21 18:22	1
Acetone	<5.5	^c	20	5.5	ug/L			12/21/21 18:22	1
Benzene	<2.0		5.0	2.0	ug/L			12/21/21 18:22	1
Bromoform	<2.6		5.0	2.6	ug/L			12/21/21 18:22	1
Bromomethane	<4.5		5.0	4.5	ug/L			12/21/21 18:22	1
Carbon disulfide	<3.0		5.0	3.0	ug/L			12/21/21 18:22	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/L			12/21/21 18:22	1
Chlorobenzene	<1.6		5.0	1.6	ug/L			12/21/21 18:22	1
Chlorodibromomethane	<2.4		5.0	2.4	ug/L			12/21/21 18:22	1
Chloroform	<2.1		5.0	2.1	ug/L			12/21/21 18:22	1
Chloromethane	<3.9	^c	5.0	3.9	ug/L			12/21/21 18:22	1
Chloroethane	<2.6		5.0	2.6	ug/L			12/21/21 18:22	1
cis-1,2-Dichloroethene	<1.6		5.0	1.6	ug/L			12/21/21 18:22	1
cis-1,3-Dichloropropene	<1.6		5.0	1.6	ug/L			12/21/21 18:22	1
Cyclohexane	<1.2		5.0	1.2	ug/L			12/21/21 18:22	1
Dichlorobromomethane	<2.4		5.0	2.4	ug/L			12/21/21 18:22	1
Dichlorodifluoromethane	<2.9		5.0	2.9	ug/L			12/21/21 18:22	1
Ethylbenzene	<2.2		5.0	2.2	ug/L			12/21/21 18:22	1
1,2-Dibromoethane	<2.7		5.0	2.7	ug/L			12/21/21 18:22	1
Isopropylbenzene	<2.3		5.0	2.3	ug/L			12/21/21 18:22	1
Methyl acetate	<5.9		25	5.9	ug/L			12/21/21 18:22	1
Methyl tert-butyl ether	<3.7		5.0	3.7	ug/L			12/21/21 18:22	1
Methylcyclohexane	<2.1		5.0	2.1	ug/L			12/21/21 18:22	1
Methylene Chloride	<3.9	^c	5.0	3.9	ug/L			12/21/21 18:22	1
m-Xylene & p-Xylene	<1.9		5.0	1.9	ug/L			12/21/21 18:22	1
o-Xylene	<2.4		5.0	2.4	ug/L			12/21/21 18:22	1
Styrene	<1.3		5.0	1.3	ug/L			12/21/21 18:22	1
Tetrachloroethene	<2.0		5.0	2.0	ug/L			12/21/21 18:22	1
Toluene	<1.7		5.0	1.7	ug/L			12/21/21 18:22	1
trans-1,2-Dichloroethene	<2.5		5.0	2.5	ug/L			12/21/21 18:22	1
trans-1,3-Dichloropropene	<1.7		5.0	1.7	ug/L			12/21/21 18:22	1
Trichloroethene	<1.5		5.0	1.5	ug/L			12/21/21 18:22	1
Trichlorofluoromethane	<1.5		5.0	1.5	ug/L			12/21/21 18:22	1
Xylenes, Total	<4.3		10	4.3	ug/L			12/21/21 18:22	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: TB3
Date Collected: 12/09/21 00:00
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-16
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<3.7	^c	5.0	3.7	ug/L			12/21/21 18:22	1
Hexachlorobutadiene	<1.8		5.0	1.8	ug/L			12/21/21 18:22	1
n-Butylbenzene	<3.8		5.0	3.8	ug/L			12/21/21 18:22	1
Dibromomethane	<2.2		5.0	2.2	ug/L			12/21/21 18:22	1
Naphthalene	<3.9		5.0	3.9	ug/L			12/21/21 18:22	1
sec-Butylbenzene	<2.4		5.0	2.4	ug/L			12/21/21 18:22	1
N-Propylbenzene	<2.1		5.0	2.1	ug/L			12/21/21 18:22	1
4-Isopropyltoluene	<2.2		5.0	2.2	ug/L			12/21/21 18:22	1
tert-Butylbenzene	<1.8		5.0	1.8	ug/L			12/21/21 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 151*		*12/21/21 18:22*	*1*
4-Bromofluorobenzene (Surr)	*75*		*49 - 118*		*12/21/21 18:22*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 132*		*12/21/21 18:22*	*1*
Toluene-d8 (Surr)	*107*		*53 - 124*		*12/21/21 18:22*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB1 1-3
Date Collected: 12/09/21 10:20
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-17
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		6.0	2.0	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,1,2,2-Tetrachloroethane	<1.8		6.0	1.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.4		6.0	2.4	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,1,2-Trichloroethane	<1.2		6.0	1.2	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,1-Dichloroethane	<1.9		6.0	1.9	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,1-Dichloroethene	<2.7		6.0	2.7	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,2-Dibromo-3-Chloropropane	<3.9		6.0	3.9	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,2-Dichlorobenzene	<2.0		6.0	2.0	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,2-Dichloroethane	<1.7		6.0	1.7	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,2-Dichloropropane	<1.6		6.0	1.6	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,2,4-Trichlorobenzene	<3.0		6.0	3.0	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,3-Dichlorobenzene	<3.7		6.0	3.7	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,4-Dichlorobenzene	<1.8		6.0	1.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
2-Butanone (MEK)	<3.0		6.0	3.0	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
2-Hexanone	<1.9		6.0	1.9	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
4-Methyl-2-pentanone (MIBK)	<2.2		6.0	2.2	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Acetone	<4.7	^c	24	4.7	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Benzene	<1.7		6.0	1.7	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Bromoform	<3.0		6.0	3.0	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Bromomethane	<2.7		6.0	2.7	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Carbon disulfide	<4.8	^c	6.0	4.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Carbon tetrachloride	<2.4		6.0	2.4	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Chlorobenzene	<1.6		6.0	1.6	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Chlorodibromomethane	<3.0		6.0	3.0	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Chloroform	<1.9		6.0	1.9	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Chloromethane	<2.4		6.0	2.4	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Chloroethane	<3.5		6.0	3.5	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
cis-1,2-Dichloroethene	<1.8		6.0	1.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
cis-1,3-Dichloropropene	<2.6		6.0	2.6	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Dichlorobromomethane	<2.8		6.0	2.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Dichlorodifluoromethane	<3.0		6.0	3.0	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Ethylbenzene	<2.2		6.0	2.2	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
1,2-Dibromoethane	<1.6		6.0	1.6	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Cyclohexane	<2.9		6.0	2.9	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Isopropylbenzene	<3.1		6.0	3.1	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Methyl acetate	<8.8		30	8.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Methyl tert-butyl ether	<1.8		6.0	1.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Methylcyclohexane	<2.9		6.0	2.9	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Methylene Chloride	<5.4		6.0	5.4	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
m-Xylene & p-Xylene	<2.1		6.0	2.1	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
o-Xylene	<2.4		6.0	2.4	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Styrene	<1.8		6.0	1.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Tetrachloroethene	<2.4		6.0	2.4	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Toluene	<1.7		6.0	1.7	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
trans-1,2-Dichloroethene	<2.1		6.0	2.1	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
trans-1,3-Dichloropropene	<2.7		6.0	2.7	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Trichloroethene	<1.9		6.0	1.9	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Trichlorofluoromethane	<5.0	^c	6.0	5.0	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Vinyl chloride	<4.3		6.0	4.3	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB1 1-3
Date Collected: 12/09/21 10:20
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-17
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<8.6		12	8.6	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Hexachlorobutadiene	<3.8	^c	6.0	3.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
n-Butylbenzene	<3.0		6.0	3.0	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Dibromomethane	<2.3		6.0	2.3	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
Naphthalene	<4.8	^c	6.0	4.8	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
sec-Butylbenzene	<2.9		6.0	2.9	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
N-Propylbenzene	<2.1		6.0	2.1	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
4-Isopropyltoluene	<2.9		6.0	2.9	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1
tert-Butylbenzene	<2.5		6.0	2.5	ug/Kg	☼	12/20/21 11:10	12/20/21 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*73 - 135*	*12/20/21 11:10*	*12/20/21 11:37*	*1*
4-Bromofluorobenzene (Surr)	*99*		*60 - 124*	*12/20/21 11:10*	*12/20/21 11:37*	*1*
Dibromofluoromethane (Surr)	*109*		*69 - 126*	*12/20/21 11:10*	*12/20/21 11:37*	*1*
Toluene-d8 (Surr)	*123*		*67 - 134*	*12/20/21 11:10*	*12/20/21 11:37*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB1 5-7
Date Collected: 12/09/21 10:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-18
Matrix: Solid
Percent Solids: 87.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.9		5.7	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,1,2,2-Tetrachloroethane	<1.7		5.7	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.3		5.7	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,1,2-Trichloroethane	<1.1		5.7	1.1	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,1-Dichloroethane	<1.8		5.7	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,1-Dichloroethene	<2.6		5.7	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,2-Dibromo-3-Chloropropane	<3.7		5.7	3.7	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,2-Dichlorobenzene	<1.9		5.7	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,2-Dichloroethane	<1.6		5.7	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,2-Dichloropropane	<1.5		5.7	1.5	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,2,4-Trichlorobenzene	<2.9		5.7	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,3-Dichlorobenzene	<3.5		5.7	3.5	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,4-Dichlorobenzene	<1.7		5.7	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
2-Butanone (MEK)	<2.9		5.7	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
2-Hexanone	<1.8		5.7	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
4-Methyl-2-pentanone (MIBK)	<2.1		5.7	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Acetone	<4.5	^c	23	4.5	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Benzene	<1.6		5.7	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Bromoform	<2.9		5.7	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Bromomethane	<2.6		5.7	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Carbon disulfide	<4.6	^c	5.7	4.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Carbon tetrachloride	<2.3		5.7	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Chlorobenzene	<1.5		5.7	1.5	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Chlorodibromomethane	<2.8		5.7	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Chloroform	<1.8		5.7	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Chloromethane	<2.3		5.7	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Chloroethane	<3.3		5.7	3.3	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
cis-1,2-Dichloroethene	<1.7		5.7	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
cis-1,3-Dichloropropene	<2.5		5.7	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Dichlorobromomethane	<2.7		5.7	2.7	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Dichlorodifluoromethane	<2.8		5.7	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Ethylbenzene	<2.1		5.7	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
1,2-Dibromoethane	<1.6		5.7	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Cyclohexane	<2.7		5.7	2.7	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Isopropylbenzene	<3.0		5.7	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Methyl acetate	<8.4		29	8.4	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Methyl tert-butyl ether	<1.7		5.7	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Methylcyclohexane	<2.8		5.7	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Methylene Chloride	<5.2		5.7	5.2	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
m-Xylene & p-Xylene	<2.0		5.7	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
o-Xylene	<2.3		5.7	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Styrene	<1.7		5.7	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Tetrachloroethene	<2.3		5.7	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Toluene	<1.6		5.7	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
trans-1,2-Dichloroethene	<2.0		5.7	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
trans-1,3-Dichloropropene	<2.6		5.7	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Trichloroethene	<1.8		5.7	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Trichlorofluoromethane	<4.7	^c	5.7	4.7	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Vinyl chloride	<4.1		5.7	4.1	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB1 5-7
Date Collected: 12/09/21 10:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-18
Matrix: Solid
Percent Solids: 87.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<8.2		11	8.2	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Hexachlorobutadiene	<3.6	^c	5.7	3.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
n-Butylbenzene	<2.8		5.7	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Dibromomethane	<2.2		5.7	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
Naphthalene	<4.6	^c	5.7	4.6	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
sec-Butylbenzene	<2.8		5.7	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
N-Propylbenzene	<2.0		5.7	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
4-Isopropyltoluene	<2.8		5.7	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1
tert-Butylbenzene	<2.4		5.7	2.4	ug/Kg	☼	12/20/21 10:09	12/20/21 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 135*	*12/20/21 10:09*	*12/20/21 11:14*	*1*
4-Bromofluorobenzene (Surr)	*97*		*60 - 124*	*12/20/21 10:09*	*12/20/21 11:14*	*1*
Dibromofluoromethane (Surr)	*105*		*69 - 126*	*12/20/21 10:09*	*12/20/21 11:14*	*1*
Toluene-d8 (Surr)	*119*		*67 - 134*	*12/20/21 10:09*	*12/20/21 11:14*	*1*

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB2 0-2
Date Collected: 12/09/21 11:10
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-19
Matrix: Solid
Percent Solids: 87.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.9		5.8	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,1,2,2-Tetrachloroethane	<1.8		5.8	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.3		5.8	2.3	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,1,2-Trichloroethane	<1.1		5.8	1.1	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,1-Dichloroethane	<1.9		5.8	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,1-Dichloroethene	<2.6	*	5.8	2.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,2-Dibromo-3-Chloropropane	<3.7		5.8	3.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,2-Dichlorobenzene	<1.9		5.8	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,2-Dichloroethane	<1.7		5.8	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,2-Dichloropropane	<1.5		5.8	1.5	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,2,4-Trichlorobenzene	<2.9		5.8	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,3-Dichlorobenzene	<3.6		5.8	3.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,4-Dichlorobenzene	<1.7		5.8	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
2-Butanone (MEK)	<2.9		5.8	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
2-Hexanone	<1.8		5.8	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
4-Methyl-2-pentanone (MIBK)	<2.1		5.8	2.1	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Acetone	<4.5	^c	23	4.5	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Benzene	<1.6		5.8	1.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Bromoform	<2.9		5.8	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Bromomethane	<2.6	*	5.8	2.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Carbon disulfide	<4.6		5.8	4.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Carbon tetrachloride	<2.3		5.8	2.3	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Chlorobenzene	<1.5		5.8	1.5	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Chlorodibromomethane	<2.9		5.8	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Chloroform	<1.9		5.8	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Chloromethane	<2.3	^c	5.8	2.3	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Chloroethane	<3.4	*	5.8	3.4	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
cis-1,2-Dichloroethene	<1.7		5.8	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
cis-1,3-Dichloropropene	<2.6		5.8	2.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Dichlorobromomethane	<2.7		5.8	2.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Dichlorodifluoromethane	<2.9		5.8	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Ethylbenzene	<2.1		5.8	2.1	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
1,2-Dibromoethane	<1.6		5.8	1.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Cyclohexane	<2.8		5.8	2.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Isopropylbenzene	<3.0		5.8	3.0	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Methyl acetate	<8.5		29	8.5	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Methyl tert-butyl ether	<1.7		5.8	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Methylcyclohexane	<2.8		5.8	2.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Methylene Chloride	<5.2	*	5.8	5.2	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
m-Xylene & p-Xylene	<2.1		5.8	2.1	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
o-Xylene	<2.3		5.8	2.3	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Styrene	<1.7		5.8	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Tetrachloroethene	<2.3		5.8	2.3	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Toluene	<1.7		5.8	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
trans-1,2-Dichloroethene	<2.0		5.8	2.0	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
trans-1,3-Dichloropropene	<2.6		5.8	2.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Trichloroethene	<1.8		5.8	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Trichlorofluoromethane	<4.8	^c	5.8	4.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Vinyl chloride	<4.2		5.8	4.2	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB2 0-2
Date Collected: 12/09/21 11:10
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-19
Matrix: Solid
Percent Solids: 87.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<8.3		12	8.3	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Hexachlorobutadiene	<3.7		5.8	3.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
n-Butylbenzene	<2.9		5.8	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Dibromomethane	<2.3		5.8	2.3	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
Naphthalene	<4.6		5.8	4.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
sec-Butylbenzene	<2.8		5.8	2.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
N-Propylbenzene	<2.1		5.8	2.1	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
4-Isopropyltoluene	<2.8		5.8	2.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1
tert-Butylbenzene	<2.4		5.8	2.4	ug/Kg	☼	12/22/21 06:00	12/22/21 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*73 - 135*	*12/22/21 06:00*	*12/22/21 09:17*	*1*
4-Bromofluorobenzene (Surr)	*102*		*60 - 124*	*12/22/21 06:00*	*12/22/21 09:17*	*1*
Dibromofluoromethane (Surr)	*109*		*69 - 126*	*12/22/21 06:00*	*12/22/21 09:17*	*1*
Toluene-d8 (Surr)	*125*		*67 - 134*	*12/22/21 06:00*	*12/22/21 09:17*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB2 8-10
Date Collected: 12/09/21 11:15
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-20
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.1		6.4	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,1,2,2-Tetrachloroethane	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.6		6.4	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,1,2-Trichloroethane	<1.3		6.4	1.3	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,1-Dichloroethane	<2.0		6.4	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,1-Dichloroethene	<2.9		6.4	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,2-Dibromo-3-Chloropropane	<4.1		6.4	4.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,2-Dichlorobenzene	<2.2		6.4	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,2-Dichloroethane	<1.8		6.4	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,2-Dichloropropane	<1.7		6.4	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,2,4-Trichlorobenzene	<3.3		6.4	3.3	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,3-Dichlorobenzene	<3.9		6.4	3.9	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,4-Dichlorobenzene	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
2-Butanone (MEK)	<3.3		6.4	3.3	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
2-Hexanone	<2.0		6.4	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
4-Methyl-2-pentanone (MIBK)	<2.3		6.4	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Acetone	<5.0	^c	26	5.0	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Benzene	<1.8		6.4	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Bromoform	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Bromomethane	<2.9		6.4	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Carbon disulfide	<5.1	^c	6.4	5.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Carbon tetrachloride	<2.6		6.4	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Chlorobenzene	<1.7		6.4	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Chlorodibromomethane	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Chloroform	<2.1		6.4	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Chloromethane	<2.5		6.4	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Chloroethane	<3.7		6.4	3.7	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
cis-1,2-Dichloroethene	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
cis-1,3-Dichloropropene	<2.8		6.4	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Dichlorobromomethane	<3.0		6.4	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Dichlorodifluoromethane	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Ethylbenzene	<2.4		6.4	2.4	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
1,2-Dibromoethane	<1.8		6.4	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Cyclohexane	<3.1		6.4	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Isopropylbenzene	<3.3		6.4	3.3	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Methyl acetate	<9.4		32	9.4	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Methyl tert-butyl ether	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Methylcyclohexane	<3.1		6.4	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Methylene Chloride	<5.8		6.4	5.8	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
m-Xylene & p-Xylene	<2.3		6.4	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
o-Xylene	<2.6		6.4	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Styrene	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Tetrachloroethene	<2.6		6.4	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Toluene	<1.8		6.4	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
trans-1,2-Dichloroethene	<2.2		6.4	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
trans-1,3-Dichloropropene	<2.9		6.4	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Trichloroethene	<2.0		6.4	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Trichlorofluoromethane	<5.3	^c	6.4	5.3	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Vinyl chloride	<4.6		6.4	4.6	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB2 8-10
Date Collected: 12/09/21 11:15
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-20
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<9.2		13	9.2	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Hexachlorobutadiene	<4.1	^c	6.4	4.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
n-Butylbenzene	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Dibromomethane	<2.5		6.4	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
Naphthalene	<5.1	^c	6.4	5.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
sec-Butylbenzene	<3.1		6.4	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
N-Propylbenzene	<2.3		6.4	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
4-Isopropyltoluene	<3.1		6.4	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1
tert-Butylbenzene	<2.7		6.4	2.7	ug/Kg	☼	12/20/21 10:09	12/20/21 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*73 - 135*	*12/20/21 10:09*	*12/20/21 12:23*	*1*
4-Bromofluorobenzene (Surr)	*99*		*60 - 124*	*12/20/21 10:09*	*12/20/21 12:23*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 126*	*12/20/21 10:09*	*12/20/21 12:23*	*1*
Toluene-d8 (Surr)	*121*		*67 - 134*	*12/20/21 10:09*	*12/20/21 12:23*	*1*

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB3 0-2
Date Collected: 12/09/21 11:40
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-21
Matrix: Solid
Percent Solids: 86.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		5.9	2.0	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,1,2,2-Tetrachloroethane	<1.8		5.9	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.4		5.9	2.4	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,1,2-Trichloroethane	<1.2		5.9	1.2	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,1-Dichloroethane	<1.9		5.9	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,1-Dichloroethene	<2.7	*	5.9	2.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,2-Dibromo-3-Chloropropane	<3.8		5.9	3.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,2-Dichlorobenzene	<2.0		5.9	2.0	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,2-Dichloroethane	<1.7		5.9	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,2-Dichloropropane	<1.6		5.9	1.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,2,4-Trichlorobenzene	<3.0		5.9	3.0	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,3-Dichlorobenzene	<3.7		5.9	3.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,4-Dichlorobenzene	<1.8		5.9	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
2-Butanone (MEK)	<3.0		5.9	3.0	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
2-Hexanone	<1.9		5.9	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.9	2.2	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Acetone	<4.6	^c	24	4.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Benzene	<1.7		5.9	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Bromoform	<3.0		5.9	3.0	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Bromomethane	<2.7	*	5.9	2.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Carbon disulfide	<4.8		5.9	4.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Carbon tetrachloride	<2.4		5.9	2.4	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Chlorobenzene	<1.5		5.9	1.5	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Chlorodibromomethane	<2.9		5.9	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Chloroform	<1.9		5.9	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Chloromethane	<2.4	^c	5.9	2.4	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Chloroethane	<3.5	*	5.9	3.5	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
cis-1,2-Dichloroethene	<1.8		5.9	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
cis-1,3-Dichloropropene	<2.6		5.9	2.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Dichlorobromomethane	<2.8		5.9	2.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Dichlorodifluoromethane	<3.0		5.9	3.0	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Ethylbenzene	<2.2		5.9	2.2	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
1,2-Dibromoethane	<1.6		5.9	1.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Cyclohexane	<2.8		5.9	2.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Isopropylbenzene	<3.1		5.9	3.1	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Methyl acetate	<8.7		30	8.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Methyl tert-butyl ether	<1.7		5.9	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Methylcyclohexane	<2.9		5.9	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Methylene Chloride	<5.4	*	5.9	5.4	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
m-Xylene & p-Xylene	<2.1		5.9	2.1	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
o-Xylene	<2.4		5.9	2.4	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Styrene	<1.8		5.9	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Tetrachloroethene	<2.4		5.9	2.4	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Toluene	<1.7		5.9	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
trans-1,2-Dichloroethene	<2.1		5.9	2.1	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
trans-1,3-Dichloropropene	<2.7		5.9	2.7	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Trichloroethene	<1.9		5.9	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Trichlorofluoromethane	<4.9	^c	5.9	4.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Vinyl chloride	<4.3		5.9	4.3	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB3 0-2
Date Collected: 12/09/21 11:40
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-21
Matrix: Solid
Percent Solids: 86.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<8.6		12	8.6	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Hexachlorobutadiene	<3.8		5.9	3.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
n-Butylbenzene	<2.9		5.9	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Dibromomethane	<2.3		5.9	2.3	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
Naphthalene	<4.8		5.9	4.8	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
sec-Butylbenzene	<2.9		5.9	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
N-Propylbenzene	<2.1		5.9	2.1	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
4-Isopropyltoluene	<2.9		5.9	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1
tert-Butylbenzene	<2.5		5.9	2.5	ug/Kg	☼	12/22/21 06:00	12/22/21 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*73 - 135*	*12/22/21 06:00*	*12/22/21 09:40*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 124*	*12/22/21 06:00*	*12/22/21 09:40*	*1*
Dibromofluoromethane (Surr)	*103*		*69 - 126*	*12/22/21 06:00*	*12/22/21 09:40*	*1*
Toluene-d8 (Surr)	*118*		*67 - 134*	*12/22/21 06:00*	*12/22/21 09:40*	*1*

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB3 4-6
Date Collected: 12/09/21 11:45
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-22
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.7		5.0	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,1,2,2-Tetrachloroethane	<1.5		5.0	1.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0		5.0	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,1,2-Trichloroethane	<0.99		5.0	0.99	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,1-Dichloroethane	<1.6		5.0	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,1-Dichloroethene	<2.3		5.0	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,2-Dibromo-3-Chloropropane	<3.2		5.0	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,2-Dichloroethane	<1.4		5.0	1.4	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,2-Dichloropropane	<1.3		5.0	1.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,3-Dichlorobenzene	<3.1		5.0	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,4-Dichlorobenzene	<1.5		5.0	1.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
2-Butanone (MEK)	<2.5		5.0	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
2-Hexanone	<1.6		5.0	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
4-Methyl-2-pentanone (MIBK)	<1.8		5.0	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Acetone	<3.9	^c	20	3.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Benzene	<1.4		5.0	1.4	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Bromoform	<2.5		5.0	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Bromomethane	<2.3		5.0	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Carbon disulfide	<4.0	^c	5.0	4.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Carbon tetrachloride	<2.0		5.0	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Chlorobenzene	<1.3		5.0	1.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Chlorodibromomethane	<2.5		5.0	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Chloroform	<1.6		5.0	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Chloromethane	<2.0		5.0	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Chloroethane	<2.9		5.0	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
cis-1,3-Dichloropropene	<2.2		5.0	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Dichlorobromomethane	<2.3		5.0	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Dichlorodifluoromethane	<2.5		5.0	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Ethylbenzene	<1.8		5.0	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
1,2-Dibromoethane	<1.4		5.0	1.4	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Cyclohexane	<2.4		5.0	2.4	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Isopropylbenzene	<2.6		5.0	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Methyl acetate	<7.3		25	7.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Methyl tert-butyl ether	<1.5		5.0	1.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Methylcyclohexane	<2.4		5.0	2.4	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Methylene Chloride	<4.5		5.0	4.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
m-Xylene & p-Xylene	<1.8		5.0	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
o-Xylene	<2.0		5.0	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Styrene	<1.5		5.0	1.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Tetrachloroethene	<2.0		5.0	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Toluene	<1.4		5.0	1.4	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
trans-1,3-Dichloropropene	<2.2		5.0	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Trichloroethene	<1.6		5.0	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Trichlorofluoromethane	<4.1	^c	5.0	4.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Vinyl chloride	<3.6		5.0	3.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB3 4-6
Date Collected: 12/09/21 11:45
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-22
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<7.2		10	7.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Hexachlorobutadiene	<3.2	^c	5.0	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
n-Butylbenzene	<2.5		5.0	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Dibromomethane	<2.0		5.0	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
Naphthalene	<4.0	^c	5.0	4.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
sec-Butylbenzene	<2.5		5.0	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
N-Propylbenzene	<1.8		5.0	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
4-Isopropyltoluene	<2.4		5.0	2.4	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1
tert-Butylbenzene	<2.1		5.0	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 135*	*12/20/21 10:09*	*12/20/21 13:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*60 - 124*	*12/20/21 10:09*	*12/20/21 13:10*	*1*
Dibromofluoromethane (Surr)	*109*		*69 - 126*	*12/20/21 10:09*	*12/20/21 13:10*	*1*
Toluene-d8 (Surr)	*124*		*67 - 134*	*12/20/21 10:09*	*12/20/21 13:10*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB4 2-4
Date Collected: 12/09/21 12:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-24
Matrix: Solid
Percent Solids: 76.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.1		6.3	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,1,2,2-Tetrachloroethane	<1.9		6.3	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.5		6.3	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,1,2-Trichloroethane	<1.2		6.3	1.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,1-Dichloroethane	<2.0		6.3	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,1-Dichloroethene	<2.8		6.3	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,2-Dibromo-3-Chloropropane	<4.1		6.3	4.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,2-Dichlorobenzene	<2.1		6.3	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,2-Dichloroethane	<1.8		6.3	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,2-Dichloropropane	<1.7		6.3	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,2,4-Trichlorobenzene	<3.2		6.3	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,3-Dichlorobenzene	<3.9		6.3	3.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,4-Dichlorobenzene	<1.9		6.3	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
2-Butanone (MEK)	<3.2		6.3	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
2-Hexanone	<2.0		6.3	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
4-Methyl-2-pentanone (MIBK)	<2.3		6.3	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Acetone	<4.9	^c	25	4.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Benzene	<1.8		6.3	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Bromoform	<3.2		6.3	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Bromomethane	<2.9		6.3	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Carbon disulfide	<5.0	^c	6.3	5.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Carbon tetrachloride	<2.5		6.3	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Chlorobenzene	<1.6		6.3	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Chlorodibromomethane	<3.1		6.3	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Chloroform	<2.0		6.3	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Chloromethane	<2.5		6.3	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Chloroethane	<3.7		6.3	3.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
cis-1,2-Dichloroethene	<1.9		6.3	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
cis-1,3-Dichloropropene	<2.8		6.3	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Dichlorobromomethane	<2.9		6.3	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Dichlorodifluoromethane	<3.1		6.3	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Ethylbenzene	<2.3		6.3	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
1,2-Dibromoethane	<1.7		6.3	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Cyclohexane	<3.0		6.3	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Isopropylbenzene	<3.3		6.3	3.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Methyl acetate	<9.2		31	9.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Methyl tert-butyl ether	<1.8		6.3	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Methylcyclohexane	<3.0		6.3	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Methylene Chloride	<5.7		6.3	5.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
m-Xylene & p-Xylene	<2.2		6.3	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
o-Xylene	<2.5		6.3	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Styrene	<1.9		6.3	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Tetrachloroethene	<2.5		6.3	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Toluene	<1.8		6.3	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
trans-1,2-Dichloroethene	<2.2		6.3	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
trans-1,3-Dichloropropene	<2.8		6.3	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Trichloroethene	<2.0		6.3	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Trichlorofluoromethane	<5.2	^c	6.3	5.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Vinyl chloride	<4.5		6.3	4.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB4 2-4
Date Collected: 12/09/21 12:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-24
Matrix: Solid
Percent Solids: 76.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<9.0		13	9.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Hexachlorobutadiene	<4.0	^c	6.3	4.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
n-Butylbenzene	<3.1		6.3	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Dibromomethane	<2.5		6.3	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
Naphthalene	<5.0	^c	6.3	5.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
sec-Butylbenzene	<3.1		6.3	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
N-Propylbenzene	<2.2		6.3	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
4-Isopropyltoluene	<3.0		6.3	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1
tert-Butylbenzene	<2.6		6.3	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 135*	*12/20/21 10:09*	*12/20/21 13:33*	*1*
4-Bromofluorobenzene (Surr)	*91*		*60 - 124*	*12/20/21 10:09*	*12/20/21 13:33*	*1*
Dibromofluoromethane (Surr)	*104*		*69 - 126*	*12/20/21 10:09*	*12/20/21 13:33*	*1*
Toluene-d8 (Surr)	*124*		*67 - 134*	*12/20/21 10:09*	*12/20/21 13:33*	*1*

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB4 6-8
Date Collected: 12/09/21 12:30
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-25
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.1		6.4	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,1,2,2-Tetrachloroethane	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.5		6.4	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,1,2-Trichloroethane	<1.3		6.4	1.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,1-Dichloroethane	<2.0		6.4	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,1-Dichloroethene	<2.9		6.4	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,2-Dibromo-3-Chloropropane	<4.1		6.4	4.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,2-Dichlorobenzene	<2.1		6.4	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,2-Dichloroethane	<1.8		6.4	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,2-Dichloropropane	<1.7		6.4	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,2,4-Trichlorobenzene	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,3-Dichlorobenzene	<3.9		6.4	3.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,4-Dichlorobenzene	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
2-Butanone (MEK)	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
2-Hexanone	<2.0		6.4	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
4-Methyl-2-pentanone (MIBK)	<2.3		6.4	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Acetone	<5.0	^c	25	5.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Benzene	<1.8		6.4	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Bromoform	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Bromomethane	<2.9		6.4	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Carbon disulfide	<5.1	^c	6.4	5.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Carbon tetrachloride	<2.6		6.4	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Chlorobenzene	<1.7		6.4	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Chlorodibromomethane	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Chloroform	<2.1		6.4	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Chloromethane	<2.5		6.4	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Chloroethane	<3.7		6.4	3.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
cis-1,2-Dichloroethene	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
cis-1,3-Dichloropropene	<2.8		6.4	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Dichlorobromomethane	<3.0		6.4	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Dichlorodifluoromethane	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Ethylbenzene	<2.4		6.4	2.4	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
1,2-Dibromoethane	<1.7		6.4	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Cyclohexane	<3.0		6.4	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Isopropylbenzene	<3.3		6.4	3.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Methyl acetate	<9.4		32	9.4	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Methyl tert-butyl ether	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Methylcyclohexane	<3.1		6.4	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Methylene Chloride	<5.7		6.4	5.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
m-Xylene & p-Xylene	<2.3		6.4	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
o-Xylene	<2.6		6.4	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Styrene	<1.9		6.4	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Tetrachloroethene	<2.6		6.4	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Toluene	<1.8		6.4	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
trans-1,2-Dichloroethene	<2.2		6.4	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
trans-1,3-Dichloropropene	<2.9		6.4	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Trichloroethene	<2.0		6.4	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Trichlorofluoromethane	<5.3	^c	6.4	5.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Vinyl chloride	<4.6		6.4	4.6	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB4 6-8
Date Collected: 12/09/21 12:30
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-25
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<9.2		13	9.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Hexachlorobutadiene	<4.1	^c	6.4	4.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
n-Butylbenzene	<3.2		6.4	3.2	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Dibromomethane	<2.5		6.4	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
Naphthalene	<5.1	^c	6.4	5.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
sec-Butylbenzene	<3.1		6.4	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
N-Propylbenzene	<2.3		6.4	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
4-Isopropyltoluene	<3.1		6.4	3.1	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1
tert-Butylbenzene	<2.7		6.4	2.7	ug/Kg	☼	12/20/21 10:09	12/20/21 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*73 - 135*	*12/20/21 10:09*	*12/20/21 13:57*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 124*	*12/20/21 10:09*	*12/20/21 13:57*	*1*
Dibromofluoromethane (Surr)	*107*		*69 - 126*	*12/20/21 10:09*	*12/20/21 13:57*	*1*
Toluene-d8 (Surr)	*123*		*67 - 134*	*12/20/21 10:09*	*12/20/21 13:57*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB5 0-2
Date Collected: 12/09/21 13:00
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-26
Matrix: Solid
Percent Solids: 78.3

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.1		6.3	2.1	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,1,2,2-Tetrachloroethane	<1.9		6.3	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.5		6.3	2.5	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,1,2-Trichloroethane	<1.2		6.3	1.2	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,1-Dichloroethane	<2.0		6.3	2.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,1-Dichloroethene	<2.8	*	6.3	2.8	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,2-Dibromo-3-Chloropropane	<4.1		6.3	4.1	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,2-Dichlorobenzene	<2.1		6.3	2.1	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,2-Dichloroethane	<1.8		6.3	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,2-Dichloropropane	<1.7		6.3	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,2,4-Trichlorobenzene	<3.2		6.3	3.2	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,3-Dichlorobenzene	<3.9		6.3	3.9	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,4-Dichlorobenzene	<1.9		6.3	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
2-Butanone (MEK)	<3.2		6.3	3.2	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
2-Hexanone	<2.0		6.3	2.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
4-Methyl-2-pentanone (MIBK)	<2.3		6.3	2.3	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Acetone	<4.9	^c	25	4.9	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Benzene	<1.8		6.3	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Bromoform	<3.2		6.3	3.2	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Bromomethane	<2.9	*	6.3	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Carbon disulfide	<5.0		6.3	5.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Carbon tetrachloride	<2.5		6.3	2.5	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Chlorobenzene	<1.6		6.3	1.6	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Chlorodibromomethane	<3.1		6.3	3.1	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Chloroform	<2.0		6.3	2.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Chloromethane	<2.5	^c	6.3	2.5	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Chloroethane	<3.7	*	6.3	3.7	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
cis-1,2-Dichloroethene	<1.9		6.3	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
cis-1,3-Dichloropropene	<2.8		6.3	2.8	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Dichlorobromomethane	<2.9		6.3	2.9	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Dichlorodifluoromethane	<3.1		6.3	3.1	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Ethylbenzene	<2.3		6.3	2.3	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
1,2-Dibromoethane	<1.7		6.3	1.7	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Cyclohexane	<3.0		6.3	3.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Isopropylbenzene	<3.3		6.3	3.3	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Methyl acetate	<9.2		31	9.2	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Methyl tert-butyl ether	<1.8		6.3	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Methylcyclohexane	<3.0		6.3	3.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Methylene Chloride	<5.7	*	6.3	5.7	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
m-Xylene & p-Xylene	<2.2		6.3	2.2	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
o-Xylene	<2.5		6.3	2.5	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Styrene	<1.9		6.3	1.9	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Tetrachloroethene	<2.5		6.3	2.5	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Toluene	<1.8		6.3	1.8	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
trans-1,2-Dichloroethene	<2.2		6.3	2.2	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
trans-1,3-Dichloropropene	<2.8		6.3	2.8	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Trichloroethene	<2.0		6.3	2.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Trichlorofluoromethane	<5.2	^c	6.3	5.2	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Vinyl chloride	<4.5		6.3	4.5	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB5 0-2
Date Collected: 12/09/21 13:00
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-26
Matrix: Solid
Percent Solids: 78.3

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<9.1		13	9.1	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Hexachlorobutadiene	<4.0		6.3	4.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
n-Butylbenzene	<3.1		6.3	3.1	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Dibromomethane	<2.5		6.3	2.5	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
Naphthalene	<5.0		6.3	5.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
sec-Butylbenzene	<3.1		6.3	3.1	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
N-Propylbenzene	<2.2		6.3	2.2	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
4-Isopropyltoluene	<3.0		6.3	3.0	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1
tert-Butylbenzene	<2.6		6.3	2.6	ug/Kg	☼	12/22/21 06:00	12/22/21 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*73 - 135*	*12/22/21 06:00*	*12/22/21 10:04*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 124*	*12/22/21 06:00*	*12/22/21 10:04*	*1*
Dibromofluoromethane (Surr)	*107*		*69 - 126*	*12/22/21 06:00*	*12/22/21 10:04*	*1*
Toluene-d8 (Surr)	*121*		*67 - 134*	*12/22/21 06:00*	*12/22/21 10:04*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: SB5 4-6
Date Collected: 12/09/21 13:05
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-27
Matrix: Solid
Percent Solids: 82.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		5.8	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,1,2,2-Tetrachloroethane	<1.8		5.8	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.3		5.8	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,1,2-Trichloroethane	<1.2		5.8	1.2	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,1-Dichloroethane	<1.9		5.8	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,1-Dichloroethene	<2.6		5.8	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,2-Dibromo-3-Chloropropane	<3.8		5.8	3.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,2-Dichlorobenzene	<2.0		5.8	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,2-Dichloroethane	<1.7		5.8	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,2-Dichloropropane	<1.6		5.8	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,2,4-Trichlorobenzene	<3.0		5.8	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,3-Dichlorobenzene	<3.6		5.8	3.6	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,4-Dichlorobenzene	<1.8		5.8	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
2-Butanone (MEK)	<3.0		5.8	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
2-Hexanone	<1.8		5.8	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
4-Methyl-2-pentanone (MIBK)	<2.1		5.8	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Acetone	<4.6	^c	23	4.6	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Benzene	<1.6		5.8	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Bromoform	<2.9		5.8	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Bromomethane	<2.7		5.8	2.7	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Carbon disulfide	<4.7	^c	5.8	4.7	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Carbon tetrachloride	<2.4		5.8	2.4	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Chlorobenzene	<1.5		5.8	1.5	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Chlorodibromomethane	<2.9		5.8	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Chloroform	<1.9		5.8	1.9	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Chloromethane	<2.3		5.8	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Chloroethane	<3.4		5.8	3.4	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
cis-1,2-Dichloroethene	<1.8		5.8	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
cis-1,3-Dichloropropene	<2.6		5.8	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Dichlorobromomethane	<2.7		5.8	2.7	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Dichlorodifluoromethane	<2.9		5.8	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Ethylbenzene	<2.2		5.8	2.2	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
1,2-Dibromoethane	<1.6		5.8	1.6	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Cyclohexane	<2.8		5.8	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Isopropylbenzene	<3.0		5.8	3.0	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Methyl acetate	<8.6		29	8.6	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Methyl tert-butyl ether	<1.7		5.8	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Methylcyclohexane	<2.8		5.8	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Methylene Chloride	<5.3		5.8	5.3	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
m-Xylene & p-Xylene	<2.1		5.8	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
o-Xylene	<2.3		5.8	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Styrene	<1.8		5.8	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Tetrachloroethene	<2.3		5.8	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Toluene	<1.7		5.8	1.7	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
trans-1,2-Dichloroethene	<2.0		5.8	2.0	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
trans-1,3-Dichloropropene	<2.6		5.8	2.6	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Trichloroethene	<1.8		5.8	1.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Trichlorofluoromethane	<4.9	^c	5.8	4.9	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Vinyl chloride	<4.2		5.8	4.2	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB5 4-6
Date Collected: 12/09/21 13:05
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-27
Matrix: Solid
Percent Solids: 82.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<8.4		12	8.4	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Hexachlorobutadiene	<3.7	^c	5.8	3.7	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
n-Butylbenzene	<2.9		5.8	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Dibromomethane	<2.3		5.8	2.3	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
Naphthalene	<4.7	^c	5.8	4.7	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
sec-Butylbenzene	<2.9		5.8	2.9	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
N-Propylbenzene	<2.1		5.8	2.1	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
4-Isopropyltoluene	<2.8		5.8	2.8	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1
tert-Butylbenzene	<2.5		5.8	2.5	ug/Kg	☼	12/20/21 10:09	12/20/21 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*73 - 135*	*12/20/21 10:09*	*12/20/21 14:44*	*1*
4-Bromofluorobenzene (Surr)	*97*		*60 - 124*	*12/20/21 10:09*	*12/20/21 14:44*	*1*
Dibromofluoromethane (Surr)	*111*		*69 - 126*	*12/20/21 10:09*	*12/20/21 14:44*	*1*
Toluene-d8 (Surr)	*128*		*67 - 134*	*12/20/21 10:09*	*12/20/21 14:44*	*1*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB1 1-3
Date Collected: 12/09/21 10:20
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-17
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<680		2000	680	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
2-Methylnaphthalene	**720**		410	97	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Acenaphthene	**910**		410	120	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Acenaphthylene	**480**		410	88	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Anthracene	**2400**		410	100	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Benzo[a]anthracene	**7000**		410	180	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Benzo[b]fluoranthene	**7700**		410	99	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Benzo[k]fluoranthene	**2300**		410	120	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Benzo[g,h,i]perylene	**4200**		410	87	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Benzo[a]pyrene	**5700**		410	170	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Chrysene	**7400**		410	220	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Dibenz(a,h)anthracene	**1200**		410	260	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Dibenzofuran	<740		2000	740	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Fluoranthene	**13000**		410	110	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Fluorene	**870**		410	79	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Indeno[1,2,3-cd]pyrene	**3600**		410	200	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Naphthalene	**850**		410	79	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Phenanthrene	**11000**		410	110	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Pyrene	**13000**		410	96	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50
Benzo[e]pyrene	**4200**		2000	810	ug/Kg	☼	12/15/21 13:04	12/17/21 17:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X D*	*35 - 105*	*12/15/21 13:04*	*12/17/21 17:24*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*34 - 109*	*12/15/21 13:04*	*12/17/21 17:24*	*50*
Terphenyl-d14 (Surr)	*0*	*X D*	*20 - 117*	*12/15/21 13:04*	*12/17/21 17:24*	*50*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB1 5-7
Date Collected: 12/09/21 10:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-18
Matrix: Solid
Percent Solids: 87.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<13		37	13	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
2-Methylnaphthalene	<1.8		7.5	1.8	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Acenaphthene	<2.2		7.5	2.2	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Acenaphthylene	<1.6		7.5	1.6	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Anthracene	<1.9		7.5	1.9	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Benzo[a]anthracene	<3.4		7.5	3.4	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Benzo[b]fluoranthene	<1.8		7.5	1.8	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Benzo[k]fluoranthene	<2.3		7.5	2.3	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Benzo[g,h,i]perylene	**2.2**	**J**	7.5	1.6	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Benzo[a]pyrene	<3.3		7.5	3.3	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Chrysene	<4.2		7.5	4.2	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Dibenz(a,h)anthracene	<4.8		7.5	4.8	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Dibenzofuran	<14		37	14	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Fluoranthene	<2.0		7.5	2.0	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Fluorene	<1.5		7.5	1.5	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Indeno[1,2,3-cd]pyrene	<3.7		7.5	3.7	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Naphthalene	<1.5		7.5	1.5	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Phenanthrene	**4.8**	**J**	7.5	2.0	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Pyrene	**6.1**	**J**	7.5	1.8	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1
Benzo[e]pyrene	<15	F1	37	15	ug/Kg	☼	12/15/21 13:44	12/17/21 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*35 - 105*	*12/15/21 13:44*	*12/17/21 12:00*	*1*
Nitrobenzene-d5 (Surr)	*64*		*34 - 109*	*12/15/21 13:44*	*12/17/21 12:00*	*1*
Terphenyl-d14 (Surr)	*72*		*20 - 117*	*12/15/21 13:44*	*12/17/21 12:00*	*1*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB2 0-2
Date Collected: 12/09/21 11:10
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-19
Matrix: Solid
Percent Solids: 87.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<620		1800	620	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
2-Methylnaphthalene	**540**		370	89	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Acenaphthene	**300**	**J**	370	110	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Acenaphthylene	<81		370	81	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Anthracene	**930**		370	96	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Benzo[a]anthracene	**2500**		370	170	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Benzo[b]fluoranthene	**2500**		370	91	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Benzo[k]fluoranthene	**1300**		370	110	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Benzo[g,h,i]perylene	**2500**		370	80	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Benzo[a]pyrene	**2100**		370	160	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Chrysene	**3000**		370	200	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Dibenz(a,h)anthracene	**510**		370	240	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Dibenzofuran	<680		1800	680	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Fluoranthene	**4100**		370	97	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Fluorene	**350**	**J**	370	72	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Indeno[1,2,3-cd]pyrene	**1400**		370	180	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Naphthalene	**470**		370	72	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Phenanthrene	**4400**		370	99	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Pyrene	**4500**		370	87	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50
Benzo[e]pyrene	**2000**		1800	740	ug/Kg	☼	12/15/21 13:04	12/17/21 17:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X D*	*35 - 105*	*12/15/21 13:04*	*12/17/21 17:46*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*34 - 109*	*12/15/21 13:04*	*12/17/21 17:46*	*50*
Terphenyl-d14 (Surr)	*0*	*X D*	*20 - 117*	*12/15/21 13:04*	*12/17/21 17:46*	*50*

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB2 8-10
Date Collected: 12/09/21 11:15
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-20
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<14		41	14	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
2-Methylnaphthalene	<2.0		8.4	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Acenaphthene	<2.4		8.4	2.4	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Acenaphthylene	<1.8		8.4	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Anthracene	<2.2		8.4	2.2	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Benzo[a]anthracene	<3.8		8.4	3.8	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Benzo[b]fluoranthene	<2.1		8.4	2.1	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Benzo[k]fluoranthene	<2.5		8.4	2.5	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Benzo[g,h,i]perylene	<1.8		8.4	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Benzo[a]pyrene	<3.6		8.4	3.6	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Chrysene	<4.6		8.4	4.6	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Dibenz(a,h)anthracene	<5.4		8.4	5.4	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Dibenzofuran	<15		41	15	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Fluoranthene	<2.2		8.4	2.2	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Fluorene	<1.6		8.4	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Indeno[1,2,3-cd]pyrene	<4.2		8.4	4.2	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Naphthalene	<1.6		8.4	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Phenanthrene	<2.2		8.4	2.2	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Pyrene	<2.0		8.4	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1
Benzo[e]pyrene	<17		41	17	ug/Kg	☼	12/15/21 13:04	12/17/21 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*35 - 105*	*12/15/21 13:04*	*12/17/21 18:08*	*1*
Nitrobenzene-d5 (Surr)	*68*		*34 - 109*	*12/15/21 13:04*	*12/17/21 18:08*	*1*
Terphenyl-d14 (Surr)	*83*		*20 - 117*	*12/15/21 13:04*	*12/17/21 18:08*	*1*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB3 0-2
Date Collected: 12/09/21 11:40
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-21
Matrix: Solid
Percent Solids: 86.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<130		380	130	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
2-Methylnaphthalene	**160**		77	18	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Acenaphthene	**28**	**J**	77	22	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Acenaphthylene	<17		77	17	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Anthracene	**66**	**J**	77	20	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Benzo[a]anthracene	**250**		77	35	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Benzo[b]fluoranthene	**310**		77	19	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Benzo[k]fluoranthene	**64**	**J**	77	23	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Benzo[g,h,i]perylene	**250**		77	17	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Benzo[a]pyrene	**240**		77	33	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Chrysene	**320**		77	43	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Dibenz(a,h)anthracene	**57**	**J**	77	49	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Dibenzofuran	<140		380	140	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Fluoranthene	**380**		77	20	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Fluorene	**19**	**J**	77	15	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Indeno[1,2,3-cd]pyrene	**160**		77	38	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Naphthalene	**130**		77	15	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Phenanthrene	**390**		77	21	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Pyrene	**450**		77	18	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10
Benzo[e]pyrene	**230**	**J**	380	150	ug/Kg	☼	12/15/21 13:04	12/17/21 18:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*35 - 105*	*12/15/21 13:04*	*12/17/21 18:29*	*10*
Nitrobenzene-d5 (Surr)	*78*		*34 - 109*	*12/15/21 13:04*	*12/17/21 18:29*	*10*
Terphenyl-d14 (Surr)	*84*		*20 - 117*	*12/15/21 13:04*	*12/17/21 18:29*	*10*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB3 4-6
Date Collected: 12/09/21 11:45
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-22
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<11		33	11	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
2-Methylnaphthalene	<1.6		6.8	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Acenaphthene	<1.9		6.8	1.9	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Acenaphthylene	<1.5		6.8	1.5	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Anthracene	<1.7		6.8	1.7	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Benzo[a]anthracene	<3.0		6.8	3.0	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Benzo[b]fluoranthene	<1.7		6.8	1.7	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Benzo[k]fluoranthene	<2.0		6.8	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Benzo[g,h,i]perylene	<1.5		6.8	1.5	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Benzo[a]pyrene	<2.9		6.8	2.9	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Chrysene	<3.7		6.8	3.7	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Dibenz(a,h)anthracene	<4.3		6.8	4.3	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Dibenzofuran	<12		33	12	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Fluoranthene	<1.8		6.8	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Fluorene	<1.3		6.8	1.3	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Indeno[1,2,3-cd]pyrene	<3.3		6.8	3.3	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Naphthalene	<1.3		6.8	1.3	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Phenanthrene	<1.8		6.8	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Pyrene	<1.6		6.8	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1
Benzo[e]pyrene	<14		33	14	ug/Kg	☼	12/15/21 13:04	12/17/21 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*35 - 105*	*12/15/21 13:04*	*12/17/21 18:51*	*1*
Nitrobenzene-d5 (Surr)	*49*		*34 - 109*	*12/15/21 13:04*	*12/17/21 18:51*	*1*
Terphenyl-d14 (Surr)	*79*		*20 - 117*	*12/15/21 13:04*	*12/17/21 18:51*	*1*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: DUP3
Date Collected: 12/09/21 11:46
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-23
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<11		34	11	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
2-Methylnaphthalene	<1.6		6.9	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Acenaphthene	<2.0		6.9	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Acenaphthylene	<1.5		6.9	1.5	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Anthracene	<1.8		6.9	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Benzo[a]anthracene	<3.1		6.9	3.1	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Benzo[b]fluoranthene	<1.7		6.9	1.7	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Benzo[k]fluoranthene	<2.0		6.9	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Benzo[g,h,i]perylene	<1.5		6.9	1.5	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Benzo[a]pyrene	<3.0		6.9	3.0	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Chrysene	<3.8		6.9	3.8	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Dibenz(a,h)anthracene	<4.4		6.9	4.4	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Dibenzofuran	<13		34	13	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Fluoranthene	**1.8**	**J**	6.9	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Fluorene	<1.3		6.9	1.3	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Indeno[1,2,3-cd]pyrene	<3.4		6.9	3.4	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Naphthalene	<1.3		6.9	1.3	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Phenanthrene	**2.1**	**J**	6.9	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Pyrene	**2.6**	**J**	6.9	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1
Benzo[e]pyrene	<14		34	14	ug/Kg	☼	12/15/21 13:04	12/17/21 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*35 - 105*	*12/15/21 13:04*	*12/17/21 19:13*	*1*
Nitrobenzene-d5 (Surr)	*72*		*34 - 109*	*12/15/21 13:04*	*12/17/21 19:13*	*1*
Terphenyl-d14 (Surr)	*88*		*20 - 117*	*12/15/21 13:04*	*12/17/21 19:13*	*1*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB4 2-4
Date Collected: 12/09/21 12:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-24
Matrix: Solid
Percent Solids: 76.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<14		42	14	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
2-Methylnaphthalene	<2.0		8.5	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Acenaphthene	<2.4		8.5	2.4	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Acenaphthylene	<1.9		8.5	1.9	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Anthracene	<2.2		8.5	2.2	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Benzo[a]anthracene	<3.8		8.5	3.8	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Benzo[b]fluoranthene	<2.1		8.5	2.1	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Benzo[k]fluoranthene	<2.6		8.5	2.6	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Benzo[g,h,i]perylene	<1.8		8.5	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Benzo[a]pyrene	<3.7		8.5	3.7	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Chrysene	<4.7		8.5	4.7	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Dibenz(a,h)anthracene	<5.4		8.5	5.4	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Dibenzofuran	<16		42	16	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Fluoranthene	<2.2		8.5	2.2	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Fluorene	<1.7		8.5	1.7	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Indeno[1,2,3-cd]pyrene	<4.2		8.5	4.2	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Naphthalene	<1.7		8.5	1.7	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Phenanthrene	<2.3		8.5	2.3	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Pyrene	<2.0		8.5	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1
Benzo[e]pyrene	<17		42	17	ug/Kg	☼	12/15/21 13:04	12/17/21 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*35 - 105*	*12/15/21 13:04*	*12/17/21 19:35*	*1*
Nitrobenzene-d5 (Surr)	*77*		*34 - 109*	*12/15/21 13:04*	*12/17/21 19:35*	*1*
Terphenyl-d14 (Surr)	*93*		*20 - 117*	*12/15/21 13:04*	*12/17/21 19:35*	*1*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB4 6-8
Date Collected: 12/09/21 12:30
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-25
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<14		41	14	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
2-Methylnaphthalene	<2.0		8.3	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Acenaphthene	<2.4		8.3	2.4	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Acenaphthylene	<1.8		8.3	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Anthracene	<2.2		8.3	2.2	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Benzo[a]anthracene	<3.7		8.3	3.7	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Benzo[b]fluoranthene	<2.0		8.3	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Benzo[k]fluoranthene	<2.5		8.3	2.5	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Benzo[g,h,i]perylene	<1.8		8.3	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Benzo[a]pyrene	<3.6		8.3	3.6	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Chrysene	<4.6		8.3	4.6	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Dibenz(a,h)anthracene	<5.3		8.3	5.3	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Dibenzofuran	<15		41	15	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Fluoranthene	<2.2		8.3	2.2	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Fluorene	<1.6		8.3	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Indeno[1,2,3-cd]pyrene	<4.1		8.3	4.1	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Naphthalene	<1.6		8.3	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Phenanthrene	<2.2		8.3	2.2	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Pyrene	<2.0		8.3	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1
Benzo[e]pyrene	<17		41	17	ug/Kg	☼	12/15/21 13:04	12/17/21 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*35 - 105*	*12/15/21 13:04*	*12/17/21 19:56*	*1*
Nitrobenzene-d5 (Surr)	*81*		*34 - 109*	*12/15/21 13:04*	*12/17/21 19:56*	*1*
Terphenyl-d14 (Surr)	*97*		*20 - 117*	*12/15/21 13:04*	*12/17/21 19:56*	*1*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB5 0-2
Date Collected: 12/09/21 13:00
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-26
Matrix: Solid
Percent Solids: 78.3

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<710		2100	710	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
2-Methylnaphthalene	**930**		430	100	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Acenaphthene	**540**		430	120	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Acenaphthylene	<93		430	93	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Anthracene	**1500**		430	110	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Benzo[a]anthracene	**4400**		430	190	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Benzo[b]fluoranthene	**4100**		430	100	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Benzo[k]fluoranthene	**1600**		430	130	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Benzo[g,h,i]perylene	**3100**		430	91	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Benzo[a]pyrene	**3300**		430	180	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Chrysene	**4400**		430	240	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Dibenz(a,h)anthracene	**820**		430	270	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Dibenzofuran	<780		2100	780	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Fluoranthene	**6800**		430	110	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Fluorene	**530**		430	83	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Indeno[1,2,3-cd]pyrene	**2200**		430	210	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Naphthalene	**820**		430	83	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Phenanthrene	**6400**		430	110	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Pyrene	**7100**		430	100	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50
Benzo[e]pyrene	**2900**		2100	850	ug/Kg	☼	12/15/21 13:04	12/17/21 20:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X D*	*35 - 105*	*12/15/21 13:04*	*12/17/21 20:18*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*34 - 109*	*12/15/21 13:04*	*12/17/21 20:18*	*50*
Terphenyl-d14 (Surr)	*0*	*X D*	*20 - 117*	*12/15/21 13:04*	*12/17/21 20:18*	*50*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: SB5 4-6
Date Collected: 12/09/21 13:05
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-27
Matrix: Solid
Percent Solids: 82.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<14		40	14	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
2-Methylnaphthalene	**16**		8.1	1.9	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Acenaphthene	**28**		8.1	2.3	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Acenaphthylene	**9.1**		8.1	1.8	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Anthracene	**53**		8.1	2.1	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Benzo[a]anthracene	**88**		8.1	3.7	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Benzo[b]fluoranthene	**100**		8.1	2.0	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Benzo[k]fluoranthene	**26**		8.1	2.4	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Benzo[g,h,i]perylene	**51**		8.1	1.7	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Benzo[a]pyrene	**75**		8.1	3.5	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Chrysene	**95**		8.1	4.5	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Dibenz(a,h)anthracene	**9.6**		8.1	5.2	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Dibenzofuran	**20**	**J**	40	15	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Fluoranthene	**210**		8.1	2.1	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Fluorene	**31**		8.1	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Indeno[1,2,3-cd]pyrene	**44**		8.1	4.0	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Naphthalene	**18**		8.1	1.6	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Phenanthrene	**270**		8.1	2.2	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Pyrene	**230**		8.1	1.9	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1
Benzo[e]pyrene	**49**		40	16	ug/Kg	☼	12/15/21 13:04	12/17/21 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*35 - 105*	*12/15/21 13:04*	*12/17/21 20:40*	*1*
Nitrobenzene-d5 (Surr)	*79*		*34 - 109*	*12/15/21 13:04*	*12/17/21 20:40*	*1*
Terphenyl-d14 (Surr)	*89*		*20 - 117*	*12/15/21 13:04*	*12/17/21 20:40*	*1*

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: EB3
Date Collected: 12/09/21 13:30
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-28
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<0.16		0.96	0.16	ug/L		12/15/21 07:52	12/22/21 12:54	1
2-Methylnaphthalene	<0.060		0.18	0.060	ug/L		12/15/21 07:52	12/22/21 12:54	1
Acenaphthene	<0.063		0.18	0.063	ug/L		12/15/21 07:52	12/22/21 12:54	1
Acenaphthylene	<0.063		0.18	0.063	ug/L		12/15/21 07:52	12/22/21 12:54	1
Anthracene	<0.047		0.18	0.047	ug/L		12/15/21 07:52	12/22/21 12:54	1
Benzo[a]anthracene	<0.072		0.18	0.072	ug/L		12/15/21 07:52	12/22/21 12:54	1
Benzo[b]fluoranthene	<0.093		0.18	0.093	ug/L		12/15/21 07:52	12/22/21 12:54	1
Benzo[k]fluoranthene	<0.085		0.18	0.085	ug/L		12/15/21 07:52	12/22/21 12:54	1
Benzo[g,h,i]perylene	<0.066		0.18	0.066	ug/L		12/15/21 07:52	12/22/21 12:54	1
Benzo[a]pyrene	<0.051		0.18	0.051	ug/L		12/15/21 07:52	12/22/21 12:54	1
Chrysene	<0.078		0.18	0.078	ug/L		12/15/21 07:52	12/22/21 12:54	1
Dibenz(a,h)anthracene	<0.069		0.18	0.069	ug/L		12/15/21 07:52	12/22/21 12:54	1
Dibenzofuran	<0.18		0.96	0.18	ug/L		12/15/21 07:52	12/22/21 12:54	1
Fluoranthene	<0.058		0.18	0.058	ug/L		12/15/21 07:52	12/22/21 12:54	1
Fluorene	<0.066		0.18	0.066	ug/L		12/15/21 07:52	12/22/21 12:54	1
Indeno[1,2,3-cd]pyrene	<0.082		0.18	0.082	ug/L		12/15/21 07:52	12/22/21 12:54	1
Naphthalene	<0.057		0.18	0.057	ug/L		12/15/21 07:52	12/22/21 12:54	1
Phenanthrene	**0.10**	**J**	0.18	0.053	ug/L		12/15/21 07:52	12/22/21 12:54	1
Pyrene	<0.052		0.18	0.052	ug/L		12/15/21 07:52	12/22/21 12:54	1
Benzo[e]pyrene	<0.29		0.96	0.29	ug/L		12/15/21 07:52	12/22/21 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*20 - 105*	*12/15/21 07:52*	*12/22/21 12:54*	*1*
Nitrobenzene-d5 (Surr)	*42*		*20 - 107*	*12/15/21 07:52*	*12/22/21 12:54*	*1*
Terphenyl-d14 (Surr)	*56*		*22 - 120*	*12/15/21 07:52*	*12/22/21 12:54*	*1*

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

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

Client Sample ID: SB1 1-3
Date Collected: 12/09/21 10:20
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-17
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.2	F1	0.097	0.031	mg/Kg	☼	12/15/21 08:02	12/16/21 23:06	1
Barium	124		0.97	0.12	mg/Kg	☼	12/15/21 08:02	12/16/21 23:06	1
Cadmium	0.27		0.097	0.016	mg/Kg	☼	12/15/21 08:02	12/16/21 23:06	1
Chromium	10.9	F1	0.20	0.082	mg/Kg	☼	12/17/21 09:48	12/18/21 14:06	1
Silver	0.049	J F1	0.097	0.026	mg/Kg	☼	12/15/21 08:02	12/16/21 23:06	1
Lead	37.7	F1	0.097	0.097	mg/Kg	☼	12/15/21 08:02	12/16/21 23:06	1
Selenium	0.64	F1	0.48	0.12	mg/Kg	☼	12/15/21 08:02	12/16/21 23:06	1

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

Client Sample ID: SB1 5-7
Date Collected: 12/09/21 10:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-18
Matrix: Solid
Percent Solids: 87.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.0**		0.066	0.021	mg/Kg	☼	12/15/21 08:02	12/16/21 23:32	1
Barium	**20.0**		0.66	0.085	mg/Kg	☼	12/15/21 08:02	12/16/21 23:32	1
Cadmium	**0.074**		0.066	0.011	mg/Kg	☼	12/15/21 08:02	12/16/21 23:32	1
Chromium	**10.3**		0.19	0.078	mg/Kg	☼	12/17/21 09:48	12/18/21 14:23	1
Silver	<0.018		0.066	0.018	mg/Kg	☼	12/15/21 08:02	12/16/21 23:32	1
Lead	**2.6**		0.066	0.066	mg/Kg	☼	12/15/21 08:02	12/16/21 23:32	1
Selenium	<0.081		0.33	0.081	mg/Kg	☼	12/15/21 08:02	12/16/21 23:32	1

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

Client Sample ID: SB2 0-2
Date Collected: 12/09/21 11:10
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-19
Matrix: Solid
Percent Solids: 87.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		0.063	0.020	mg/Kg	☼	12/15/21 08:02	12/16/21 23:35	1
Barium	63.0		0.63	0.081	mg/Kg	☼	12/15/21 08:02	12/16/21 23:35	1
Cadmium	0.26		0.063	0.011	mg/Kg	☼	12/15/21 08:02	12/16/21 23:35	1
Chromium	13.2		0.18	0.074	mg/Kg	☼	12/17/21 09:48	12/18/21 14:27	1
Silver	0.039	J	0.063	0.017	mg/Kg	☼	12/15/21 08:02	12/16/21 23:35	1
Lead	36.6		0.063	0.063	mg/Kg	☼	12/15/21 08:02	12/16/21 23:35	1
Selenium	0.64		0.31	0.077	mg/Kg	☼	12/15/21 08:02	12/16/21 23:35	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

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

Client Sample ID: SB2 8-10
Date Collected: 12/09/21 11:15
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-20
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		0.072	0.023	mg/Kg	☼	12/15/21 08:02	12/16/21 23:39	1
Barium	**44.0**		0.72	0.092	mg/Kg	☼	12/15/21 08:02	12/16/21 23:39	1
Cadmium	**0.070**	**J**	0.072	0.012	mg/Kg	☼	12/15/21 08:02	12/16/21 23:39	1
Chromium	**12.8**		0.15	0.061	mg/Kg	☼	12/17/21 09:48	12/18/21 14:30	1
Silver	**0.019**	**J**	0.072	0.019	mg/Kg	☼	12/15/21 08:02	12/16/21 23:39	1
Lead	**3.4**		0.072	0.072	mg/Kg	☼	12/15/21 08:02	12/16/21 23:39	1
Selenium	<0.087		0.36	0.087	mg/Kg	☼	12/15/21 08:02	12/16/21 23:39	1

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

Client Sample ID: SB3 0-2
Date Collected: 12/09/21 11:40
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-21
Matrix: Solid
Percent Solids: 86.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.060	0.019	mg/Kg	☼	12/15/21 08:02	12/16/21 23:43	1
Barium	57.1		0.60	0.077	mg/Kg	☼	12/15/21 08:02	12/16/21 23:43	1
Cadmium	0.10		0.060	0.010	mg/Kg	☼	12/15/21 08:02	12/16/21 23:43	1
Chromium	9.4		0.17	0.072	mg/Kg	☼	12/17/21 09:48	12/18/21 14:34	1
Silver	0.019	J	0.060	0.016	mg/Kg	☼	12/15/21 08:02	12/16/21 23:43	1
Lead	8.4		0.060	0.060	mg/Kg	☼	12/15/21 08:02	12/16/21 23:43	1
Selenium	0.18	J	0.30	0.073	mg/Kg	☼	12/15/21 08:02	12/16/21 23:43	1

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

Client Sample ID: SB3 4-6
Date Collected: 12/09/21 11:45
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-22
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.5**		0.072	0.023	mg/Kg	☼	12/15/21 08:02	12/16/21 23:46	1
Barium	**12.6**		0.72	0.092	mg/Kg	☼	12/15/21 08:02	12/16/21 23:46	1
Cadmium	**0.035**	**J**	0.072	0.012	mg/Kg	☼	12/15/21 08:02	12/16/21 23:46	1
Chromium	**6.4**		0.15	0.062	mg/Kg	☼	12/17/21 09:48	12/18/21 14:44	1
Silver	<0.019		0.072	0.019	mg/Kg	☼	12/15/21 08:02	12/16/21 23:46	1
Lead	**1.7**		0.072	0.072	mg/Kg	☼	12/15/21 08:02	12/16/21 23:46	1
Selenium	<0.087		0.36	0.087	mg/Kg	☼	12/15/21 08:02	12/16/21 23:46	1

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

Client Sample ID: SB4 2-4
Date Collected: 12/09/21 12:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-24
Matrix: Solid
Percent Solids: 76.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.7**		0.080	0.026	mg/Kg	☼	12/15/21 08:02	12/16/21 23:57	1
Barium	**120**		0.80	0.10	mg/Kg	☼	12/15/21 08:02	12/16/21 23:57	1
Cadmium	**0.091**		0.080	0.014	mg/Kg	☼	12/15/21 08:02	12/16/21 23:57	1
Chromium	**29.1**		0.25	0.10	mg/Kg	☼	12/17/21 09:48	12/18/21 14:48	1
Silver	<0.022		0.080	0.022	mg/Kg	☼	12/15/21 08:02	12/16/21 23:57	1
Lead	**6.8**		0.080	0.080	mg/Kg	☼	12/15/21 08:02	12/16/21 23:57	1
Selenium	<0.098		0.40	0.098	mg/Kg	☼	12/15/21 08:02	12/16/21 23:57	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

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

Client Sample ID: SB4 6-8
Date Collected: 12/09/21 12:30
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-25
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		0.084	0.027	mg/Kg	☼	12/15/21 08:02	12/17/21 00:01	1
Barium	**101**		0.84	0.11	mg/Kg	☼	12/15/21 08:02	12/17/21 00:01	1
Cadmium	**0.060**	**J**	0.084	0.014	mg/Kg	☼	12/15/21 08:02	12/17/21 00:01	1
Chromium	**28.7**		0.20	0.082	mg/Kg	☼	12/17/21 09:48	12/18/21 14:51	1
Silver	**0.026**	**J**	0.084	0.023	mg/Kg	☼	12/15/21 08:02	12/17/21 00:01	1
Lead	**5.8**		0.084	0.084	mg/Kg	☼	12/15/21 08:02	12/17/21 00:01	1
Selenium	<0.10		0.42	0.10	mg/Kg	☼	12/15/21 08:02	12/17/21 00:01	1

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

Client Sample ID: SB5 0-2
Date Collected: 12/09/21 13:00
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-26
Matrix: Solid
Percent Solids: 78.3

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.9		0.083	0.027	mg/Kg	☼	12/15/21 08:02	12/17/21 00:05	1
Barium	76.6		0.83	0.11	mg/Kg	☼	12/15/21 08:02	12/17/21 00:05	1
Cadmium	0.35		0.083	0.014	mg/Kg	☼	12/15/21 08:02	12/17/21 00:05	1
Chromium	7.5		0.18	0.074	mg/Kg	☼	12/17/21 09:48	12/18/21 14:55	1
Silver	0.29		0.083	0.022	mg/Kg	☼	12/15/21 08:02	12/17/21 00:05	1
Lead	75.3		0.083	0.083	mg/Kg	☼	12/15/21 08:02	12/17/21 00:05	1
Selenium	0.87		0.41	0.10	mg/Kg	☼	12/15/21 08:02	12/17/21 00:05	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

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

Client Sample ID: SB5 4-6
Date Collected: 12/09/21 13:05
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-27
Matrix: Solid
Percent Solids: 82.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		0.074	0.024	mg/Kg	☼	12/15/21 08:02	12/17/21 00:08	1
Barium	89.3		0.74	0.095	mg/Kg	☼	12/15/21 08:02	12/17/21 00:08	1
Cadmium	0.080		0.074	0.013	mg/Kg	☼	12/15/21 08:02	12/17/21 00:08	1
Chromium	17.9		0.19	0.080	mg/Kg	☼	12/17/21 09:48	12/18/21 14:58	1
Silver	0.044	J	0.074	0.020	mg/Kg	☼	12/15/21 08:02	12/17/21 00:08	1
Lead	11.6		0.074	0.074	mg/Kg	☼	12/15/21 08:02	12/17/21 00:08	1
Selenium	0.21	J	0.37	0.091	mg/Kg	☼	12/15/21 08:02	12/17/21 00:08	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB1 1-3
Date Collected: 12/09/21 10:20
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-17
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.036	0.023	mg/Kg	☼	12/30/21 05:09	12/30/21 11:01	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB1 5-7
Date Collected: 12/09/21 10:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-18
Matrix: Solid
Percent Solids: 87.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.023		0.036	0.023	mg/Kg	☼	12/30/21 05:09	12/30/21 11:02	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB2 0-2
Date Collected: 12/09/21 11:10
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-19
Matrix: Solid
Percent Solids: 87.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	J	0.037	0.024	mg/Kg	☼	12/30/21 05:09	12/30/21 11:07	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB2 8-10
Date Collected: 12/09/21 11:15
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-20
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.024		0.037	0.024	mg/Kg	☼	12/30/21 05:09	12/30/21 11:08	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB3 0-2
Date Collected: 12/09/21 11:40
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-21
Matrix: Solid
Percent Solids: 86.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.024		0.037	0.024	mg/Kg	☼	12/30/21 05:09	12/30/21 11:09	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB3 4-6
Date Collected: 12/09/21 11:45
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-22
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.030	0.019	mg/Kg	☼	12/30/21 05:09	12/30/21 11:10	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB4 2-4
Date Collected: 12/09/21 12:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-24
Matrix: Solid
Percent Solids: 76.6

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.025		0.039	0.025	mg/Kg	☼	12/30/21 05:09	12/30/21 11:11	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB4 6-8
Date Collected: 12/09/21 12:30
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-25
Matrix: Solid
Percent Solids: 79.0

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.022		0.034	0.022	mg/Kg	☼	12/30/21 05:09	12/30/21 11:12	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB5 0-2
Date Collected: 12/09/21 13:00
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-26
Matrix: Solid
Percent Solids: 78.3

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.036	0.023	mg/Kg	☼	12/30/21 05:09	12/30/21 11:14	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: SB5 4-6
Date Collected: 12/09/21 13:05
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-27
Matrix: Solid
Percent Solids: 82.1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.022		0.035	0.022	mg/Kg	☼	12/30/21 05:09	12/30/21 11:13	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB1 1-3
Date Collected: 12/09/21 10:20
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-17
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.4		0.1	0.1	%			12/15/21 14:39	1
Percent Solids	82.6		0.1	0.1	%			12/15/21 14:39	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB1 5-7
Date Collected: 12/09/21 10:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-18
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.0		0.1	0.1	%			12/15/21 14:39	1
Percent Solids	87.0		0.1	0.1	%			12/15/21 14:39	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB2 0-2
Date Collected: 12/09/21 11:10
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-19
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.1	%			12/15/21 14:39	1
Percent Solids	87.8		0.1	0.1	%			12/15/21 14:39	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB2 8-10
Date Collected: 12/09/21 11:15
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-20
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.0		0.1	0.1	%			12/15/21 14:39	1
Percent Solids	79.0		0.1	0.1	%			12/15/21 14:39	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB3 0-2
Date Collected: 12/09/21 11:40
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-21
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.9		0.1	0.1	%			12/15/21 14:39	1
Percent Solids	86.1		0.1	0.1	%			12/15/21 14:39	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB3 4-6
Date Collected: 12/09/21 11:45
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-22
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.2		0.1	0.1	%			12/15/21 14:39	1
Percent Solids	97.8		0.1	0.1	%			12/15/21 14:39	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: DUP3
Date Collected: 12/09/21 11:46
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-23
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.4		0.1	0.1	%			12/15/21 14:39	1
Percent Solids	96.6		0.1	0.1	%			12/15/21 14:39	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB4 2-4
Date Collected: 12/09/21 12:25
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-24
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.4		0.1	0.1	%			12/15/21 14:39	1
Percent Solids	76.6		0.1	0.1	%			12/15/21 14:39	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB4 6-8
Date Collected: 12/09/21 12:30
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-25
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.0		0.1	0.1	%			12/15/21 15:11	1
Percent Solids	79.0		0.1	0.1	%			12/15/21 15:11	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB5 0-2
Date Collected: 12/09/21 13:00
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-26
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.7		0.1	0.1	%			12/15/21 15:11	1
Percent Solids	78.3		0.1	0.1	%			12/15/21 15:11	1

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

General Chemistry

Client Sample ID: SB5 4-6
Date Collected: 12/09/21 13:05
Date Received: 12/10/21 09:30

Lab Sample ID: 180-131094-27
Matrix: Solid

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.9		0.1	0.1	%			12/15/21 15:11	1
Percent Solids	82.1		0.1	0.1	%			12/15/21 15:11	1

Method Summary

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
EPA 8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	M22	TAL PIT
EPA 1664B	HEM and SGT-HEM	PA	TAL PIT
EPA 9071B	HEM and SGT-HEM	W846	TAL PIT
D422	Grain Size	ASTM	TAL BUR
1664B	HEM and SGT-HEM (SPE)	1664B	TAL PIT
3050B	Preparation, Metals	SW846	TAL PIT
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL PIT
3541	Automated Soxhlet Extraction (Low Level)	SW846	TAL PIT
5030C	Purge and Trap	SW846	TAL PIT
5035	Closed System Purge and Trap	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT
9071B	Preparation, HEM and SGT-HEM	SW846	TAL PIT

Methods outlined in purple were performed as part of sediment/ elutriate sampling, and are not relevant to this soil report.

Protocol References:

1664B = EPA-821-98-002
ASTM = ASTM International
EPA = US Environmental Protection Agency
SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: C Reiss Coal Dock

Job ID: 180-131094-1

Samples outlined in purple were taken as part of sediment/ elutriate sampling, and are not relevant to this soil report.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-131094-1	SED1 0-3	Sediment	12/08/21 12:30	12/10/21 09:30
180-131094-2	SED1 3-6	Sediment	12/08/21 12:30	12/10/21 09:30
180-131094-3	SED1 6-8	Sediment	12/08/21 12:30	12/10/21 09:30
180-131094-4	DUP1	Sediment	12/08/21 12:31	12/10/21 09:30
180-131094-5	SED2 0-3	Sediment	12/08/21 13:10	12/10/21 09:30
180-131094-6	SED2 3-6	Sediment	12/08/21 13:15	12/10/21 09:30
180-131094-7	SED2 6-8	Sediment	12/08/21 13:20	12/10/21 09:30
180-131094-8	SED3 0-3	Sediment	12/08/21 15:10	12/10/21 09:30
180-131094-9	SED3 3-6	Sediment	12/08/21 15:15	12/10/21 09:30
180-131094-10	SED3 6-8	Sediment	12/08/21 15:20	12/10/21 09:30
180-131094-11	EB2	Water	12/08/21 12:45	12/10/21 09:30
180-131094-12	EB1	Water	12/08/21 12:00	12/10/21 09:30
180-131094-13	SITE WATER 1	Water	12/09/21 13:30	12/10/21 09:30
180-131094-14	TB1	Water	12/09/21 00:00	12/10/21 09:30
180-131094-15	TB2	Water	12/09/21 00:00	12/10/21 09:30
180-131094-16	TB3	Water	12/09/21 00:00	12/10/21 09:30
180-131094-17	SB1 1-3	Solid	12/09/21 10:20	12/10/21 09:30
180-131094-18	SB1 5-7	Solid	12/09/21 10:25	12/10/21 09:30
180-131094-19	SB2 0-2	Solid	12/09/21 11:10	12/10/21 09:30
180-131094-20	SB2 8-10	Solid	12/09/21 11:15	12/10/21 09:30
180-131094-21	SB3 0-2	Solid	12/09/21 11:40	12/10/21 09:30
180-131094-22	SB3 4-6	Solid	12/09/21 11:45	12/10/21 09:30
180-131094-23	DUP3	Solid	12/09/21 11:46	12/10/21 09:30
180-131094-24	SB4 2-4	Solid	12/09/21 12:25	12/10/21 09:30
180-131094-25	SB4 6-8	Solid	12/09/21 12:30	12/10/21 09:30
180-131094-26	SB5 0-2	Solid	12/09/21 13:00	12/10/21 09:30
180-131094-27	SB5 4-6	Solid	12/09/21 13:05	12/10/21 09:30
180-131094-28	EB3	Water	12/09/21 13:30	12/10/21 09:30

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: WHITNEY CULL	Lab PM: Gamber, Carrie L	Carrier Tracking No(s):	COC No: 180-75562-14561.1
Client Contact: WHITNEY CULL	Phone: (202) 219-4740	E-Mail: Carrie.Gamber@Eurofinset.com	State of Origin: WI	Page: Page 1 of 3
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 12075 Corporate Pkwy, Suite 200	Due Date Requested:			
City: Mequon	TAT Requested (days): 10 DAY			
State, Zip: WI, 53092	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested 19370741			
Email: WHITNEY.CULL@STANTEC.COM	WO #:			
Project Name: C Reiss Coal Slip	Project #: 18024548			
Site: SUPERIOR, WI	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SVOC	O+G	MOISTURE	GRAIN SIZE	Total Number of containers	Special Instructions/Note:
Preservation Code:												
SED1 0-3	12/8/2										2	
SED1 3-6											2	
SED1 6-8		1230			Y		X	X	X	X	3	MS/MSD FOR SVOC ONLY
DUP1		1231			N		X				1	
SED2 0-3		1310			N		X	X	X	X	2	
SED2 3-6		1315			N		X	X	X	X	2	
SED2 6-8		1320			N		X	X	X	X	2	
SED3 0-3		1570			N		X	X	X	X	2	
SED3 3-6		1575			N		X	X	X	X	2	
SED3 6-8		1520			N		X	X	X	X	2	
EB2		1245		W	N		X				2	

Samples outlined in purple were taken as part of sediment/ elutriate sampling, and are not relevant to this soil report.

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
WHITNEY CULL	12/9/2021, 1730	STANTEC		01/13/21 1000	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: WHITNEY CULL	Lab PM: Gamber, Carrie L	Carrier Tracking No(s):	COC No: 180-75562-14561.2
Client Contact: WHITNEY CULL	Phone: (262) 214-4740	E-Mail: Carrie.Gamber@Eurofinset.com	State of Origin: WI	Page: Page 2 of 3
Company: Stantec Consulting Corp.	PWSID:	**Analysis Requested**		Job #:
Address: 12075 Corporate Pkwy, Suite 200	Due Date Requested:			Preservation Codes:
City: Mequon	TAT Requested (days):			
State, Zip: WI, 53092	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested 193707141			
Email: WHITNEY.CULL@STANTEC.COM	WO #:			
Project Name: C Reiss Coal Slip	Project #: 18024548			
Site: SUPERIOR, WI	SSOW#:			Other:

Preservation Codes:
A - HCL, M - Hexane
B - NaOH, N - None
C - Zn Acetate, O - AsNaO2
D - Nitric Acid, P - Na2O4S
E - NaHSO4, Q - Na2SO3
F - MeOH, R - Na2S2O3
G - Amchlor, S - H2SO4
H - Ascorbic Acid, T - TSP Dodecahydrate
I - Ice, U - Acetone
J - DI Water, V - MCAA
K - EDTA, W - pH 4-5
L - EDA, Z - other (specify)

180-131094 Chain of Custody

Samples outlined in purple were taken as part of sediment/ elutriate sampling, and are not relevant to this soil report.

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SVOC	SEDIMENT, SET	O+G	VOC	PCB METALS	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
EB1	12/8/21											2	
ELUT 1												5	MS/MSD ON SVOCs ONLY
SITE WATER 1	↓	1330	↓		N	N	X		X			5	← MAY NOT HAVE ENOUGH SAMPLE; IF THIS IS THE CASE, OMIT MS/MSD.
TB1	—	—	—		N	N	X					2	
TB2	—	—	—	↓	N	N	X					2	
TB3	—	—	—	W	N	N				X		2	
SB1 1-3	12/9/2021	1020	G	S	N	N	X			X	X	5	
SB1 5-7		1025			N	Y	X			X	X	6	* PERFORM MS/MSD FOR SVOC ONLY
SB2 0-2		1110			N	N	X			X	X	5	
SB2 8-10		1115			N	N	X			X	X	5	
SB3 0-2	↓	1140	↓	↓	N	N	X			X	X	5	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: [signature] Cull	Date/Time: 12/9/2021, 1430	Company: STANTEC	Received by: [signature]	Date/Time: 12/12/21 1100	Company: [signature]
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: WHITNEY CULL	Lab PM: Gamber, Carrie L	Carrier Tracking No(s):	COC No: 180-75562-14561.3
Client Contact: ~~Shipping~~ WHITNEY CULL	Phone: (262)719-4740	E-Mail: Carrie.Gamber@Eurofinset.com	State of Origin: WI	Page: Page 3 of 3
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 12075 Corporate Pkwy, Suite 200	Due Date Requested:			
City: Mequon	TAT Requested (days):			
State, Zip: WI, 53092	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested 1937071 41			
Email: ~~Shipping~~ WHITNEY.CULL@STANTEC.COM	WO #:			
Project Name: C Reiss Coal Slip	Project #: 18024548			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SVOC	VOC	RCRA METALS	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SB3 4-6	12/9/2021	1145	G	S	N	N	X	X	X	5	
DUP 3		1146					X			1	
SB4 2-4		1225					X	X	X	5	
SB4 6-8		1230					X	X	X	5	
SB5 0-2		1300					X	X	X	5	
SB5 4-6		1305					X	X	X	5	
EB3		1330		W			X			2	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
WS Cull STANTEC	12/9/2021, 1430	STANTEC		12/13/21 1000	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: