2135 S. Loop 250 W, Midland, Texas 79703 United States www.ghd.com



Our ref: 11220758

February 21, 2022

New Mexico Oil Conservation Division District 2 811 South First Street Artesia, New Mexico 88210

Re: Site Characterization and Closure Report Madison 1 Fee COM #1 Release Site EOG Resources Inc. 2RP-4640 E-01-22S-27E, Eddy County, New Mexico

To Whom It May Concern:

### 1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, analyses, and remedial activities in the affected areas at the EOG Madison 1 Fee COM #1 Release Site (Site). The Site is located in Unit Letter E, Section 01 of Township 22 South and Range 27 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.423508 N latitude and 104.147116 W longitude. The release occurred on private land owned by Clark Sammy D & Elizabeth A. Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figures 2 and 3, respectively.

### 2. **Background Information**

A C-141 initial report for this release was submitted to the NMOCD on February 28, 2018. The C-141 stated the release was caused by a "water dump on the production unit not working". Approximately fifty-one (51) barrels (bbls) of crude oil were released with 0 bbls being recovered. No known date or time could be determined with this release.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Remediation Permit 2RP-4640. The Release Notification, Site Assessment/Characterization and closure portions of Form C-141 are provided as Attachment A.

### 3. Groundwater and Site Characterization

GHD characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico.

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i). No groundwater data could be located within one-half mile of the site; therefore, the release must be treated as if it occurred less than 50 feet from groundwater. No other receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. The Site characterization documentation (Karst Potential, FEMA, Points of Diversion, significant watercourse, and Wetlands maps) are provided in Attachment B. The soil closure criteria are provided below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
No Receptors	Unknown, Treated as <50 ft

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Constituent	Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
TPH (GRO+DRO)	Not Applicable
Benzene	10 mg/kg
BTEX	50 mg/kg

### 4. Initial Soil Delineation Assessment Summary and Findings

On March 3, 2021, GHD Services Inc. (GHD) and EOG's contractor SDR Enterprise, LLC (SDR), on behalf of EOG, installed four (4) test pits and one (1) hand boring within the former tank battery containment at the Site. Soil samples were collected at depths ranging from the ground surface to thirteen (13) feet below ground surface (bgs). All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Eurofins Scientific Inc. (Eurofins) in Carlsbad, New Mexico.

Seventeen (17) of the thirty-one (31) soil samples exceeded applicable NMAC 19.15.29.12 Table I (Table I) Closure Criteria: TP1-S, TP1-2, TP1-4, TP1-6, TP2-S, TP3-S, TP3-2, TP3-4, TP3-6, TP4-S, TP4-2, TP4-4, TP4-6, TP4-8, HA1-S, HA1-2 and HA1-4. Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1 – Summary of Soil Analytical Data, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

### Excavation, Waste Management, and Confirmation Sampling

Due to the preliminary soil sampling activities exhibiting TPH concentrations above the closure criteria EOG had the tanks and other equipment within the impacted area removed to allow for excavation of the impacted material. GHD and SDR returned to the Site on November 15 through 17, 2021, to excavate the impacted soils. Confirmation soil samples (BH-1 through BH-16 and SW-1 through SW-10) were collected in areas representing no greater than two hundred (200) square feet. All confirmation samples were taken to Eurofins in Carlsbad, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated that confirmation soil samples BH-1 and SW-1 exhibited TPH concentrations above the closure criteria of 100 mg/kg for TPH. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment D. Analytical results are summarized in the attached Table 1 – Summary of Soil Analytical Data.

On November 19, 2021, GHD and SDR returned to the Site, to further excavate the areas exhibiting TPH concentrations above 100 mg/kg. After excavation activities were completed, GHD collected one (1) bottom hole confirmation sample (BH-1A) and one (1) sidewall confirmation sample (SW-1A), from areas representing no more than 200 square feet. All confirmation samples were taken to Eurofins in Carlsbad, New Mexico and analysed for BTEX by EPA Method 8021 B, TPH by Method 8015B Modified and Chloride EPA Method 300. Analytical results indicated benzene, BTEX, TPH and chloride concentrations were below NMAC Table I closure criteria. Photos of the excavation are provided as Attachment C.

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM 64, Highway 62/180 East, Carlsbad, NM, 88220. Approximately 1,023.97 tons of impacted soil and rock were disposed at the Lea Land, LLC facility, from November 16 through 22, 2021. The Approved C-138 and disposal manifests are provided in Attachment E.

### 6. nAPP1806032261 Closure Requests

The excavation was backfilled with non-impacted material on November 29 through December 1, 2021. Site Characterization, soil delineation, and remediation activities for Remediation Permit 2RP-4640 have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for Remediation Permit 2RP-4640.

If you have any questions or comments concerning this Site Characterization and Closure Report, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

**GHD** 

Becky Haskell

Senior Project Manager

Zach H. Comino Field Geologist

BH/tl/1

Encl. Figure 1 – Site Location Map

Rebecca Haskell

Figure 2 – Initial Site Assessment: Analytical Results Map Figure 3 – Confirmation Sampling: Analytical Results Map

Table 1 - Summary of Soil Analytical Data

Attachment A – C-141 for Remediation Permit 2RP-4640 Attachment B – Site Characterization Documentation

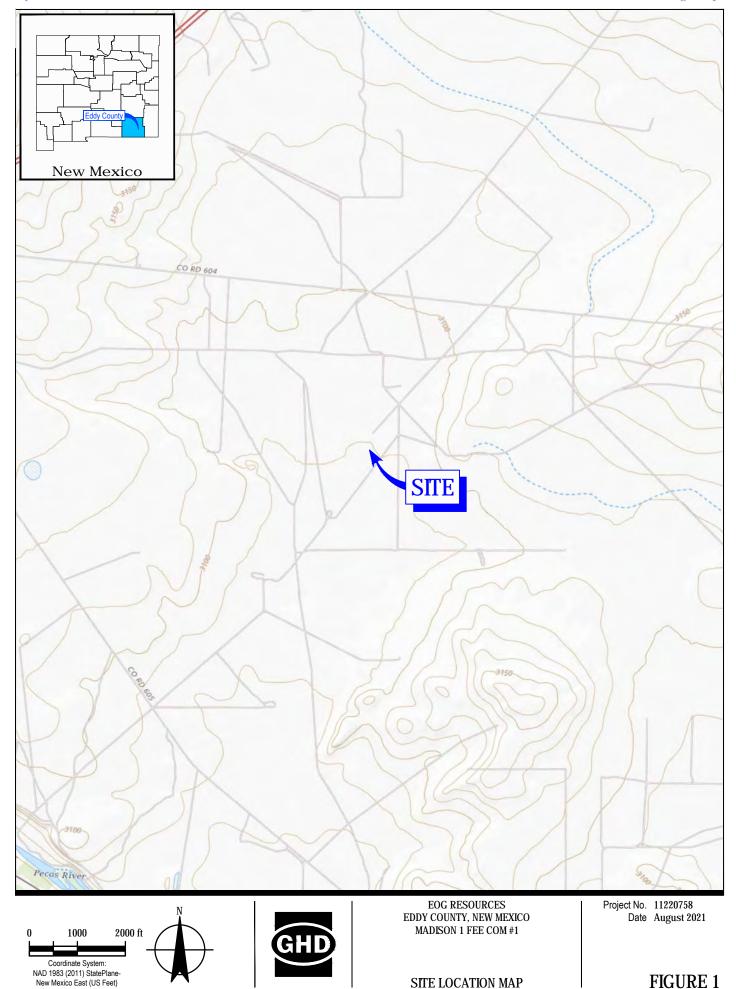
Attachment C - Photographic Log

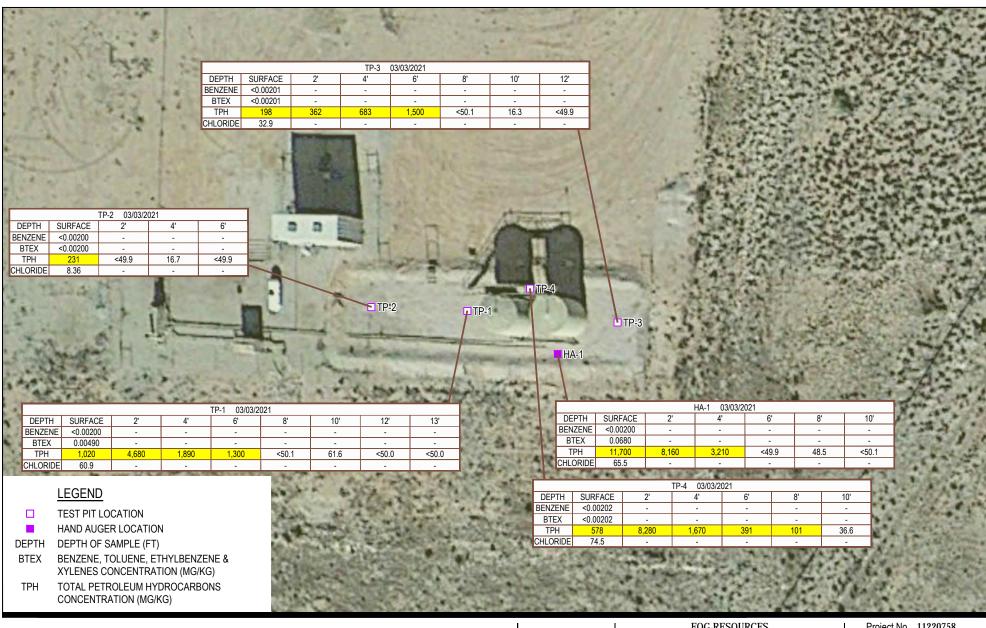
Attachment D – Laboratory Analytical Reports and Chain-of-Custody Documentation

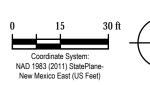
Attachment E – Approved C-138 and Disposal Manifests

cc: James Kennedy

Figures







### NOTES:

- 1. RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
- 2. SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
- 3. YELLOW SHADED CELLS INDICATE EXCEEDANCE.

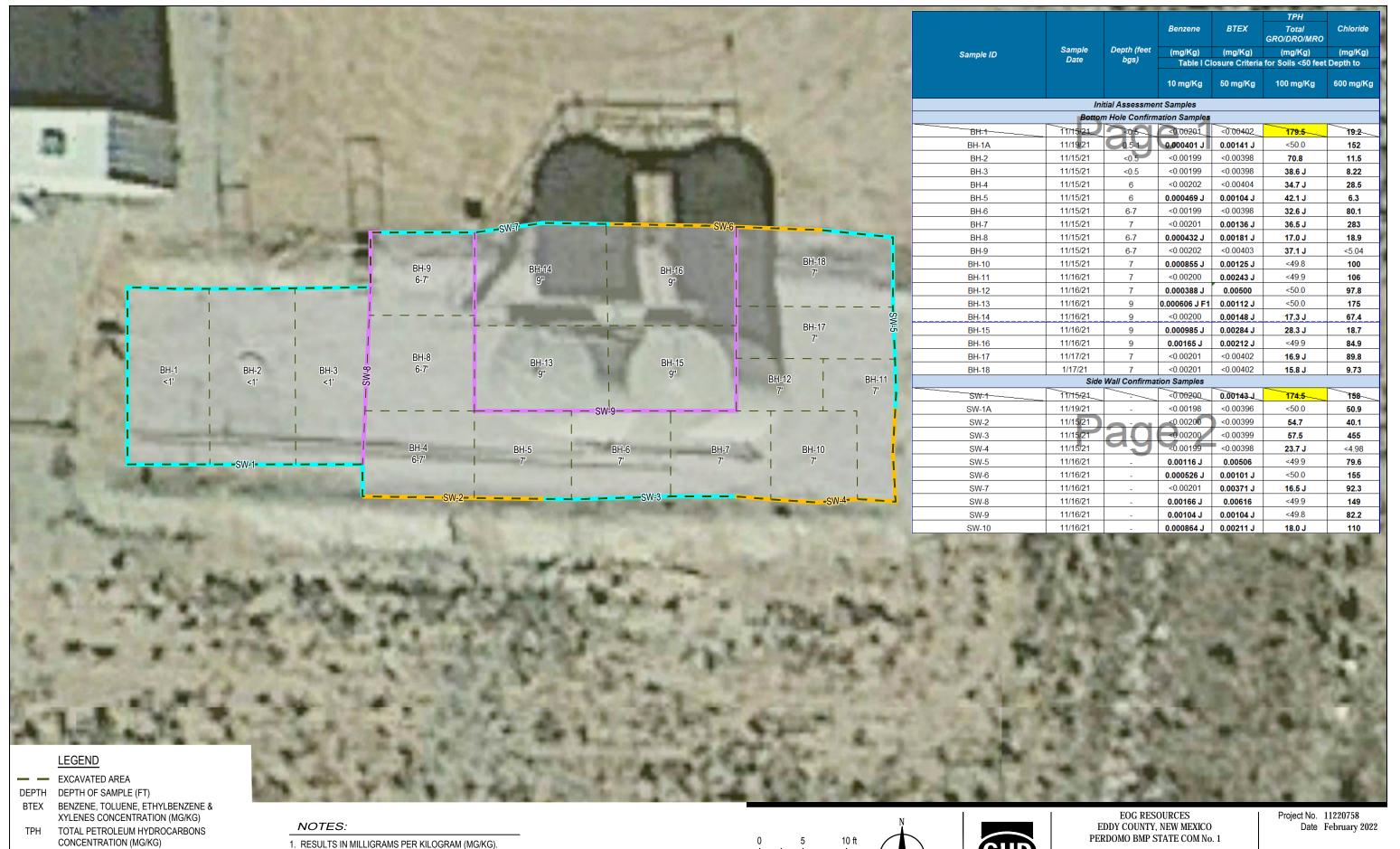
GHD

EOG RESOURCES EDDY COUNTY, NEW MEXICO MADISON 1 FEE COM #1

SITE ASSESSMENT: SOIL ANALYTICAL RESULTS MAP Project No. 11220758 Date August 2021

FIGURE 2

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NAD 1983 (2011) StatePlane

INDICATES SIDE WALL COMPOSITE SAMPLE

INDICATES SIDE WALL COMPOSITE SAMPLE

INDICATES SIDE WALL COMPOSITE SAMPLE

2. SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.

3. YELLOW SHADED CELLS INDICATE EXCEEDANCE.

FIGURE 3

**CONFIRMATION SAMPLING:** 

ANALYTICAL RESULTS MAP

Tables

Received by OCD: 2/24/2022 12:09:28 PM

## Table 1 Summary of Soil Analytical Data Madison Fee COM #1 EOG Resources Eddy County, New Mexico

					Eddy County, New							
					··	V 1				TPH (COO)		011
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	Depth (feet	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
	Date	bgs)			Table I Clo	sure Criteria fo	r Soils <50 fee	Depth to Groun	dwater 19.15.2	9 NMAC		
			10 mg/Kg				50 mg/Kg				100 mg/Kg	600 mg/Kg
Initial Assessment Samples												
TP1-S	3/3/21	3	<0.00200	0.00490	<0.00200	<0.00200	0.00490	<5 <del>0.0</del>	1,020	< <del>50.0</del>	1,020	60:9
TP1-2	3/3/21	2		/	/			943	3,740	< <del>49.9</del>	4,680	
TP1-4	3/3/21	4			<u> </u>			358	1,530	< <del>50.0</del>	1,890	
TP1-6	3/3/21	8			/			236	1,060	<50.0	1,300	
TP1-8	3/3/21	8	-	-	-	-	-	<50.1	<50.1	<50.1	<50.1	-
TP1-10	3/3/21	10	-	-	-	-	-	<49.8	61.6	<49.8	61.6	-
TP1-12	3/3/21	12	-	-	-	-	-	<50.0	<50.0	<50.0	<50.0	-
TP1-13	3/3/21	13	-	-	-	-	-	<50.0	<50.0	<50.0	<50.0	_
T <del>P2-S</del>	3/3/21	3	<0.00200	< 0.00200	<0.00200	<0.00200	<0.00200	59.9	718	52:9	231	8:36
TP2-2	3/3/21	2	-	-	-	-	-	<49.9	<49.9	<49.9	<49.9	-
TP2-4	3/3/21	4	-	-	-	-	-	<50.0	16.7	<50.0	16.7	-
TP2-6	3/3/21	6	-	-	-	-	-	<49.9	<49.9	<49.9	<49.9	
TP4-S	3/3/21	-\$	< 0.00202	< 0.00202	<0.00202	<0.00202	< 0.00202	<50.0	578	< <del>50.0</del>	578	74.5
T <del>P4-2</del>	3/3/21	2		/				2610	5,670	< <del>49.8</del>	8,280	
T <del>P4-4</del>	3/3/21	#		/				419	1,250	<50.1	1,670	
T <del>P4-6</del>	3/3/21	8		/	/			85.2	306	< <del>50.0</del>	391	
TP4-8	3/3/21	-8-		<i></i>	/			<50.0	101	<50.0	101	
TP4-10	3/3/21	10	-	-	-	-	-	<50.0	36.6	<50.0	36.6	_
T <del>P3-S</del>	3/3/21	-3-	< 0.00201	< 0.00201	<0.00201	<0.00201	<0.00201	<4 <del>9.9</del>	198	<4 <del>9.9</del>	198	32:9
T <del>P3-2</del>	3/3/21	2		<u></u>	/			27:2	335	<4 <del>9.9</del>	362	
T <del>P3-4</del>	3/3/21	4		/	/			121	562	< <del>49.8</del>	683	
T <del>P3-6</del>	3/3/21	-	-	<u> </u>	/			245	1,250	< <del>50.0</del>	1,500	
TP3-8	3/3/21	8	-	-	-	-	-	<50.1	<50.1	<50.1	<50.1	-
TP3-10	3/3/21	10	-	-	-	-	-	<49.9	16.3	<49.9	16.3	-
TP3-12	3/3/21	12	-	-	-	-	-	<49.9	<49.9	<49.9	<49.9	_
HA1-S	3/3/21	3	<0.00200	0.00694	0.00245	0.0586	0.0680	406	11,300	<249	11,700	65.5
HA1-2	3/3/21	2		/				2,120	6,049	< <del>49.8</del>	8,160	
HA1-4	3/3/21	4			/			839	2,370	<50.1	3,210	
HA1-6	3/3/21	6	-	-	-	-	-	<49.9	<49.9	<49.9	<49.9	-
HA1-8	3/3/21	8	-	-	-	-	-	<50.1	48.5	<50.1	48.5	-
HA1-10	3/3/21	10	-	-	-	-	-	<50.1	<50.1	<50.1	<50.1	-
				Bot	tom Hole Confirmati	on Samples						
BH-1	11/15/21	₹0.5	<0.00201	0.000520 J	<0.00201	<0.00402	<0.00402	<50.0	116 B	63.5 B	179.5	19:2
BH-1A	11/19/21	0.5-1	0.000401 J	<0.00199	<0.00199	0.00101 J	0.00141 J	<50.0	<50.0	<50.0	<50.0	152
BH-2	11/15/21	<0.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	51.1 B	19.7 J B	70.8	11.5
BH-3	11/15/21	<0.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	38.6 J B	<49.8	38.6 J	8.22
BH-4	11/15/21	6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	34.7 J B	<50.0	34.7 J	28.5

### Table 1 Summary of Soil Analytical Data Madison Fee COM #1 **EOG Resources Eddy County, New Mexico**

										ТРН			
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride	
Sample ID	Sample Date	Depth (feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
	Date	bys)	Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/Kg				50 mg/Kg				100 mg/Kg	600 mg/Kg	
BH-5	11/15/21	6	0.000469 J	<0.00200	<0.00200	<0.00400	0.00104 J	17.8 J	24.3 J B	<50.0	42.1 J	6.3	
BH-6	11/15/21	6-7	<0.00199	< 0.00199	<0.00199	<0.00398	<0.00398	<49.8	16.6 J B	16.0 J B	32.6 J	80.1	
BH-7	11/15/21	7	<0.00201	0.000693 J	<0.00201	<0.00402	0.00136 J	20.7J	15.8 J B	<49.9	36.5 J	283	
BH-8	11/15/21	6-7	0.000432 J	0.000886 J	<0.00200	<0.00401	0.00181 J	<49.9 U	17.0 J B	<49.9	17.0 J	18.9	
BH-9	11/15/21	6-7	<0.00202	<0.00202	<0.00202	<0.00403	< 0.00403	17.6 J	19.5 J B	<50.0 U	37.1 J	<5.04	
BH-10	11/15/21	7	0.000855 J	<0.00199	<0.00199	<0.00398	0.00125 J	<49.8	<49.8	<49.8	<49.8	100	
BH-11	11/16/21	7	<0.00200	<0.00200	<0.00200	0.00243 J	0.00243 J	<49.9	<49.9	<49.9	<49.9	106	
BH-12	11/16/21	7	0.000388 J	0.000582 J	0.00147 J	0.00256 J	0.00500	<50.0	<50.0	<50.0	<50.0	97.8	
BH-13	11/16/21	9	0.000606 J F1	<0.00198	<0.00198	<0.00397	0.00112 J	<50.0	<50.0	<50.0	<50.0	175	
BH-14	11/16/21	9	<0.00200	0.000787 J	<0.00200	<0.00400	0.00148 J	<49.8	17.3 J	<49.8	17.3 J	67.4	
BH-15	11/16/21	9	0.000985 J	<0.00200	<0.00200	0.00186 J	0.00284 J	<49.9	28.3 J	<49.9	28.3 J	18.7	
BH-16	11/16/21	9	0.00165 J	0.000473 J	<0.00199	<0.00398	0.00212 J	<49.9	<49.9	<49.9	<49.9	84.9	
BH-17	11/17/21	7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	16.9 J	<49.9	16.9 J	89.8	
BH-18	1/17/21	7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	15.8 J B	<49.8	15.8 J	9.73	
				s	ide Wall Confirmation	n Samples							
SW-1	11/15/21		<0.00200	0.000 <del>672</del> J	<0.00200	<0.00399	0.00143-1	<5 <del>0.0</del>	112 B	62:5 B	174.5	158	
SW-1A	11/19/21	-	<0.00198	<0.00198	<0.00198	<0.00396	< 0.00396	<50.0	<50.0	<50.0	<50.0	50.9	
SW-2	11/15/21	-	<0.00200	<0.00200	<0.00200	<0.00399	< 0.00399	18.1 J	36.6 J B	<49.8	54.7	40.1	
SW-3	11/15/21	-	<0.00200	0.000589 J	<0.00200	<0.00399	< 0.00399	20.5 J	19.5 J B	17.5 J B	57.5	455	
SW-4	11/15/21	-	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	23.7 J B	<50.0	23.7 J	<4.98	
SW-5	11/16/21	-	0.00116 J	0.000734 J	<0.00200	0.00317 J	0.00506	<49.9	<49.9	<49.9	<49.9	79.6	
SW-6	11/16/21	-	0.000526 J	0.00486 J	<0.00199	<0.00398	0.00101 J	<50.0	<50.0	<50.0	<50.0	155	
SW-7	11/16/21	-	<0.00201	0.00135 J	<0.00201	0.00236 J	0.00371 J	<50.0	16.5 J	<50.0	16.5 J	92.3	
SW-8	11/16/21	-	0.00166 J	0.000893 J	0.00178 J	0.00183 J	0.00616	<49.9	<49.9	<49.9	<49.9	149	
SW-9	11/16/21	-	0.00104 J	<0.00200	<0.00200	<0.00401	0.00104 J	<49.8	<49.8	<49.8	<49.8	82.2	
SW-10	11/16/21	-	0.000864 J	0.000477 J	<0.00199	<0.00398	0.00211 J	<49.9	18.0 J B	<49.9	18.0 J	110	

- Values reported in mg/kg = milligrams per kilometer
   < = Value Less than Reporting Limit (RL)
   Bold Indicates Analyte Detected

- 4 BTEX analyses by EPA Method SW 8021B

B-BH-2 Sample Point Excavated

- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria
- 8. J Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value
- 9. Not analyzed

# Attachment A C-141 for Remediation Permit 2RP-4640

### NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 28 2018

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

RECEIVED

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

	Release Notification and Corrective Action											
_NAB	1806	0322	0			OPERATOR   Initial F						Final Report
		OG Resourc		15445		Contact Zane Kurtz						
		ions Drive, lon 1 Fee Co		TX 79706		Telephone No. (432) 686-3667 Facility Type well site						
			11 #1		1	acility Typ	e well site				·	
Surface Ow	ner Privat	e		Mineral C	owner P	rivate			API No	. 30-015-3	3705	
				LOCA	ATION	OF RE	LEASE		·			
Unit Letter E	Section 1	Township 22S	Range 27E	Feet from the 1980	North/S North	South Line	Feet from the 1310	East/\ West	West Line	County Eddy		
		L	atitude_	32,423508	Lo	ngitude	-104.147116	_ N	AD83			
				NAT	URE	OF REL						
Type of Rele		r dump on pro	d				Release 51 bbls  Iour of Occurrence			Recovered 0 Hour of Dis		
Source of Re	iease wate	r dump on pro	duction u	nit		unknown	iour of Occurrenc	е	2/27/18		covery	<i>(</i>
Was Immedi	ate Notice (			lar Flaren	· .	If YES, To		•	· · · · · · · · · · · · · · · · · · ·			
77 777			Yes [_	No Not R	equired		District 2 via emai					
By Whom? Was a Water		hed?					Iour 2/28/18 11:0 plume Impacting t		ercolling			
Was a Water	course reac		Yes 🔯	] No		11 1125, V	nume impacting t	nc wai	ercourse.			
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	+		<u> </u>						
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*								
							well in until repai					
							rtical and horizon	tal deli	neation of t	he impacted	soil w	rill be
periorined at	id a work bi	an for remedi	ation will	be prepared for a	pprovaco	sy Nivioco.						
1												
Describe Are	a Affected	and Cleanup	Action Tal	ken.*								
İ		_										
Soils were st	ained aroun	d the tanks.										
I hereby cert	ify that the i	nformation g	ven above	is true and comp	lete to th	e hest of my	knowledge and u	ndersta	nd that purs	suant to NM	OCD	rules and
regulations a	ll operators	are required t	o report au	nd/or file certain : re of a C-141 ren	elease no	otifications a	nd perform correct arked as "Final R	tive act	tions for rel does not rel	eases which ieve the one	may e	ndanger of lightlity
should their	operations h	ave failed to	adequately	investigate and r	emediate	contaminat	on that pose a thre	eat to g	round water	r, surface wa	ter, h	uman health
or the enviro	nment. In a	ddition, NMC ws and/or regu	CD accer	otance of a C-141	report do	oes not reliev	e the operator of	respons	sibility for c	ompliance v	vith an	y other
icuciai, state	, or local lav	ws and/or regi	nauous.	1			OIL CON	SERI	IATION	DIVISIO	N	·· —_ ·
}							<u>OIL COIN</u>	<u>OLIC</u>	1	J/ 1010	26.5	
Signature:	·	<del>\</del>	#	<u> </u>			Signed	By /	11/4/	Experience		<u></u> -
Printed Nam	e: Zane Kur	# / /	/			Approved by	Environmental S	pecialis	St:			· <del></del>
Title: Sr. Sa	fety Enviror	nmental Rep.,	EOG Res	ources	1	Approval Da	te: 31118	,	Expiration	Date: N	IA	
E-mail Addr	ess: sane_ka	urtz@eogreso	urces.com		(	Conditions o	f Approval:	م ۱ م ۱ م	M	Attached		ماريا د
Date: 2/28	/2018			Phone: 432-425-2	2023		DEED MALL	UUY)	K)		W	1-464C
* Attach Addi		ets If Necess	arv		I							

e of New Mexico

Incident ID	
District RP	2RP-4640
Facility ID	
Application ID	

### **Site Assessment/Characterization**

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	Unknown (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☑ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody	ls.

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 2/24/2022 12:09:28 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	
District RP	2RP-4640
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: James F. Kennedy	Title: Environmental Specialist					
Signature: Qames F Kennedy	Date: February 21, 2022					
Signature:	Telephone: 432-848-9146					
OCD Only						
Received by:	Date:					

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Incident ID	
District RP	2RP-4640
Facility ID	
Application ID	

### Closure

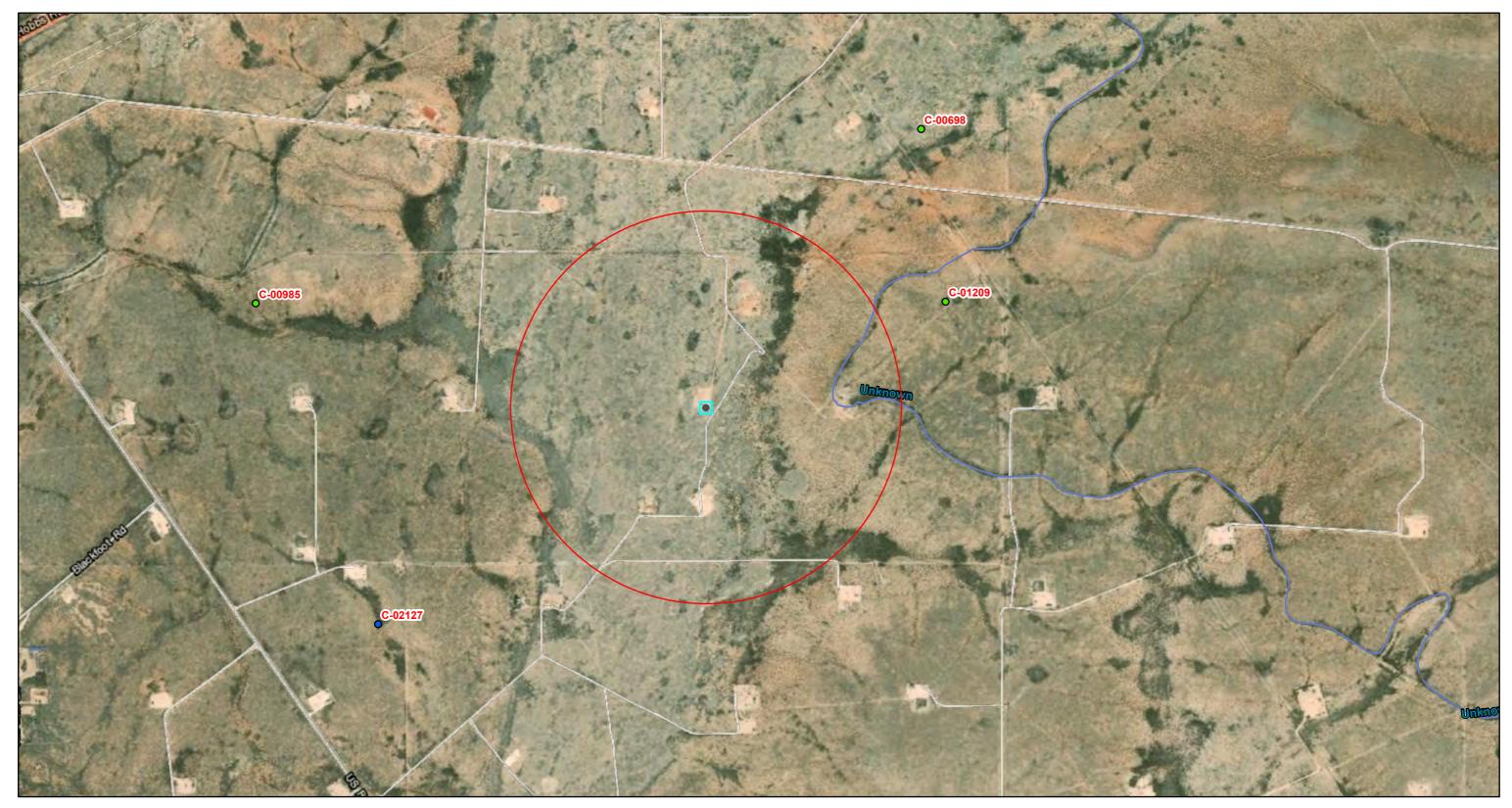
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

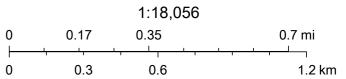
✓ A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC					
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)					
Description of remediation activities						
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replacement human health or the environment. In addition, OCD acceptance of	ntions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in					
Printed Name: James F. Kennedy	Title: Environmental Specialist					
Signature: James F Kennedy	Date: February 21, 2022					
email: James_Kennedy@eogresources.com	Telephone: 432-848-9146					
OCD Only						
Received by: OCD	Date: 10/18/2021					
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.					
Closure Approved by: Ashley Maxwell	Date: 9/13/2022					
Printed Name: Ashley Maxwell	Title:Environmental Specialist					

# Attachment B Site Characterization Documentation

## Madison 1 Fee Com #1







USDA FSA, GeoEye, Maxar, Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC

Karst Map

Legend

Page 19 of 219

High

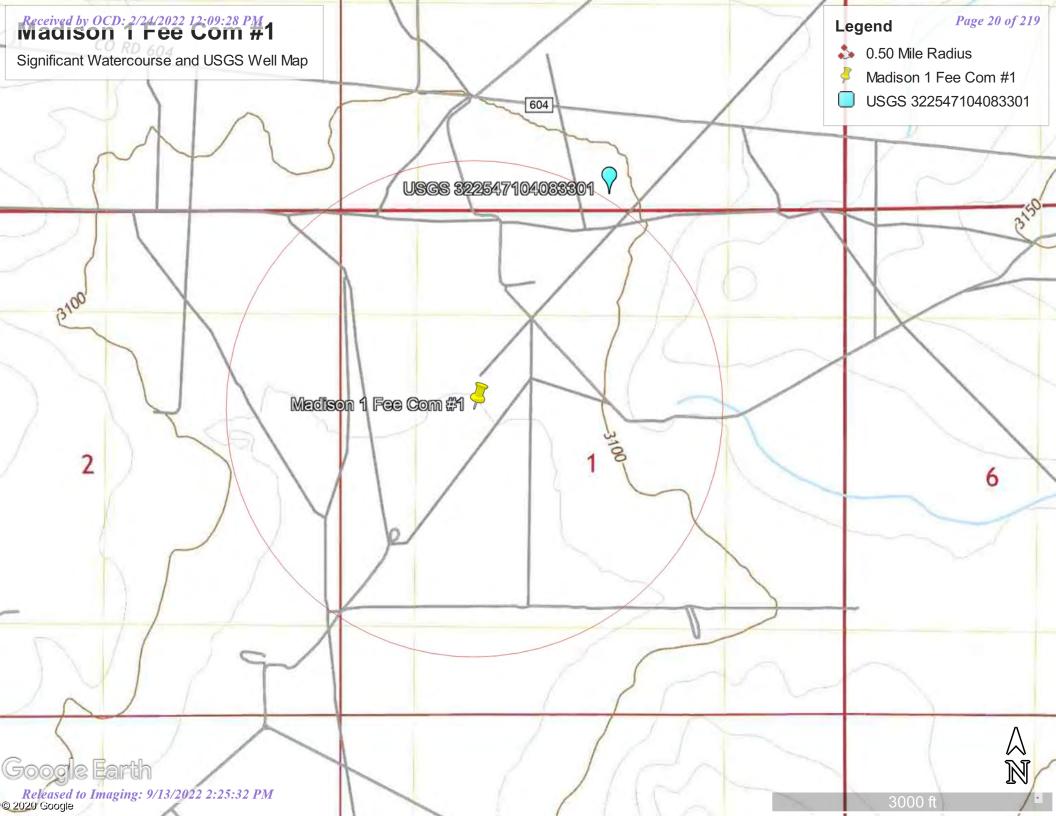
Low

Madison 1 Fee Com #1

Medium









### Madison 1 Fee Com #1



November 24, 2020

### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

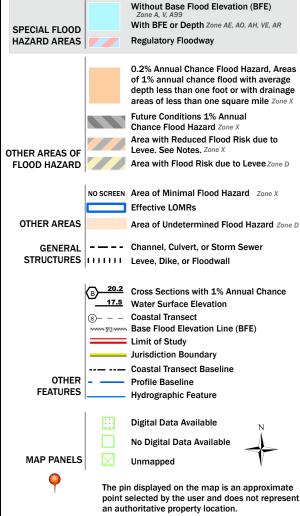
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

## National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/24/2020 at 2:38 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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## Attachment C Photographic Log





Site Photograph EOG Madison 1 Fee COM #1

GHD | Report for EOG | 11220758

Appendix D Laboratory Analytical Reports and Chain-of-Custody Documentation

## **Environment Testing America**

### **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-246-1

Laboratory Sample Delivery Group: 11220758 Client Project/Site: Madison Fee COM #1/11220758

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

Debbie Simmus

Authorized for release by: 3/25/2021 3:47:37 PM

Debbie Simmons, Project Manager (281)240-4200 debbie.simmons@eurofinset.com

LINKS

Review your project results through

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www.eurofinsus.com/Env

Released to Imaging: 9/13/2022 2:25:32 PM

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

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

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Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758 Laboratory Job ID: 890-246-1

SDG: 11220758

### **Table of Contents**

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### **Definitions/Glossary**

Client: GHD Services Inc. Job ID: 890-246-1

Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

### **Qualifiers**

### **GC Semi VOA**

Qualifier

F1	MS and/or MSD recovery exceeds control limits.

**Qualifier Description** 

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

S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

### **Subcontract**

Qualifier	Qualifier	Descri	ntion

Surrogate recovered outside laboratory control limit.

F RPD exceeded lab control limits. U Analyte was not detected.

Χ MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference

### **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** 

Detection Limit (DoD/DOE) DΙ

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)

MCI EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points RPD

**TEF** Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

**TNTC** Too Numerous To Count

Eurofins Xenco, Carlsbad

### **Case Narrative**

Client: GHD Services Inc.

Job ID: 890-246-1 Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

Job ID: 890-246-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-246-1

#### Comments

No additional comments.

### Receipt

The samples were received on 3/3/2021 4:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 15.0° C.

### Receipt Exceptions

The following samples analyzed for method <FRACTION METHOD> were received and analyzed from an unpreserved bulk soil jar: TP1-S (890-246-1), TP1-2 (890-246-2), TP1-4 (890-246-3), TP1-6 (890-246-4), TP1-8 (890-246-5), TP1-10 (890-246-6), TP1-12 (890-246-7), TP1-13 (890-246-8), TP2-S (890-246-9), TP2-2 (890-246-10), TP2-4 (890-246-11), TP2-6 (890-246-12), TP4-S (890-246-13), TP4-2 (890-246-14), TP4-4 (890-246-15), TP4-6 (890-246-16), TP4-8 (890-246-17), TP4-10 (890-246-18), TP3-S (890-246-19), TP3-2 (890-246-20), TP3-4 (890-246-21), TP3-6 (890-246-22), TP3-8 (890-246-23), TP3-10 (890-246-24), TP3-12 (890-246-25), HA1-S (890-246-26), HA1-2 (890-246-27), HA1-4 (890-246-28), HA1-6 (890-246-29), HA1-8 (890-246-30) and HA1-10 (890-246-31).

BTEX 8021

The following samples were received at the laboratory outside the required temperature criteria: TP1-S (890-246-1), TP1-2 (890-246-2), TP1-4 (890-246-3), TP1-6 (890-246-4), TP1-8 (890-246-5), TP1-10 (890-246-6), TP1-12 (890-246-7), TP1-13 (890-246-8), TP2-S (890-246-9), TP2-2 (890-246-10), TP2-4 (890-246-11), TP2-6 (890-246-12), TP4-S (890-246-13), TP4-2 (890-246-14), TP4-4 (890-246-15), TP4-6 (890-246-16), TP4-8 (890-246-17), TP4-10 (890-246-18), TP3-S (890-246-19), TP3-2 (890-246-20), TP3-4 (890-246-21), TP3-6 (890-246-22), TP3-8 (890-246-23), TP3-10 (890-246-24), TP3-12 (890-246-25), HA1-S (890-246-26), HA1-2 (890-246-27), HA1-4 (890-246-28), HA1-6 (890-246-29), HA1-8 (890-246-30) and HA1-10 (890-246-31). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun. The temp was 15.2/15.0

### GC Semi VOA

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

### Subcontract non-Sister

See attached subcontract report.

### Organic Prep

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

### Subcontract Work

Methods 300.0 - Chloride, 8015B - Mod TPH NM, 8021 - BTEX: These methods were subcontracted to Eurofins Midland. The subcontract laboratory certifications are different from that of the facility issuing the final report.

Batch: LBA-3153495 BTEX by 8021

Surrogate 4-Bromofluorobenzene recovered below QC limits . Samples affected are: 7723142-1-BLK. Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 690437-001

Lab Sample ID 690437-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 690437-001.

Eurofins Xenco, Carlsbad 3/25/2021

### **Case Narrative**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1 SDG: 11220758

**Job ID: 890-246-1 (Continued)** 

**Laboratory: Eurofins Xenco, Carlsbad (Continued)** 

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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Job ID: 890-246-1

Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

**Client Sample ID: TP1-S** Lab Sample ID: 890-246-1 Date Collected: 03/03/21 08:45

**Matrix: Solid** 

Date Received: 03/03/21 16:14

Method: 300.0 - Chloride - EP/	<b>4 300.0</b>								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.9		24.9		mg/kg		03/11/21 09:10	03/11/21 12:04	5
_									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	1020		50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Total TPH	1020		50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analvzed	Dil Fac

Surrogate	%Recovery Qualifier	LIIIIIS	riepareu	Anaryzeu	DII Fac
1-Chlorooctane	113	70 - 135	03/10/21 17:00	03/11/21 05:55	1
o-Terphenyl	92	70 - 135	03/10/21 17:00	03/11/21 05:55	1

Method: 8021 - BTEX	( - Volatiles by 8021								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	UXF	0.00200		mg/kg		03/11/21 17:00	03/12/21 12:51	1
Ethylbenzene	<0.00200	UXF	0.00200		mg/kg		03/11/21 17:00	03/12/21 12:51	1
m,p-Xylenes	<0.00400	UXF	0.00400		mg/kg		03/11/21 17:00	03/12/21 12:51	1
o-Xylene	<0.00200	UXF	0.00200		mg/kg		03/11/21 17:00	03/12/21 12:51	1
Toluene	0.00490	XF	0.00200		mg/kg		03/11/21 17:00	03/12/21 12:51	1
Total BTEX	0.00490		0.00200		mg/kg		03/11/21 17:00	03/12/21 12:51	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/11/21 17:00	03/12/21 12:51	1
Surrogate	%Recovery	Qualifier	l imite				Prepared	Analyzed	Dil Fac

Surroyale	™Recovery Qualifier	LIIIIII	rrepareu	Analyzeu	DII Fac
1,4-Difluorobenzene	96	70 - 130	03/11/21 17:00	03/12/21 12:51	1
4-Bromofluorobenzene	105	70 - 130	03/11/21 17:00	03/12/21 12:51	1

**Client Sample ID: TP1-2** Lab Sample ID: 890-246-2 Date Collected: 03/03/21 08:50 **Matrix: Solid** 

Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	943		49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 02:41	1
Diesel Range Organics (Over C10-C28)	3740	F1	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 02:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 02:41	1
Total TPH	4680	F1	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	179	S1+	70 - 130				03/17/21 16:14	03/19/21 02:41	1
o-Terphenyl	88		70 - 130				03/17/21 16:14	03/19/21 02:41	1

**Client Sample ID: TP1-4** Lab Sample ID: 890-246-3 Date Collected: 03/03/21 08:55 **Matrix: Solid** 

Date Received: 03/03/21 16:14

Method: 8015B NM - Diesel F	Range Organics (DRO) (G	SC)						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	358	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 03:48	1
(GRO)-C6-C10								

Eurofins Xenco, Carlsbad

Job ID: 890-246-1 SDG: 11220758

Project/Site: Madison Fee COM #1/11220758

Lab Sample ID: 890-246-3

Date Collected: 03/03/21 08:55 Date Received: 03/03/21 16:14

**Client Sample ID: TP1-4** 

Client: GHD Services Inc.

**Matrix: Solid** 

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	1530		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 03:48	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 03:48	1
Total TPH	1890		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				03/17/21 16:14	03/19/21 03:48	1
o-Terphenyl	96		70 - 130				03/17/21 16:14	03/19/21 03:48	1

**Client Sample ID: TP1-6** Lab Sample ID: 890-246-4

Date Collected: 03/03/21 09:00

Date Received: 03/03/21 16:14

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	236		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 04:09	1
Diesel Range Organics (Over C10-C28)	1060		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 04:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 04:09	1
Total TPH	1300		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

03/17/21 16:14 03/19/21 04:09 1-Chlorooctane 143 S1+ 70 - 130 o-Terphenyl 104 70 - 130 03/17/21 16:14 03/19/21 04:09

**Client Sample ID: TP1-8** Lab Sample ID: 890-246-5

Date Collected: 03/03/21 09:05 Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	15.0	mg/Kg		03/17/21 16:14	03/19/21 04:30	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	15.0	mg/Kg		03/17/21 16:14	03/19/21 04:30	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	15.0	mg/Kg		03/17/21 16:14	03/19/21 04:30	1
Total TPH	<50.1	U	50.1	15.0	mg/Kg		03/17/21 16:14	03/19/21 04:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				03/17/21 16:14	03/19/21 04:30	1
o-Terphenyl	100		70 - 130				03/17/21 16:14	03/19/21 04:30	1

Lab Sample ID: 890-246-6 Client Sample ID: TP1-10 Date Collected: 03/03/21 09:10 Matriv: Solid

Gasoline Range Organics

**Diesel Range Organics (Over** 

Released to Imaging: 9/13/2022 2:25:32 PM

Jale Collected. 03/03/21 03.10							iviati ix.	. Juliu
Date Received: 03/03/21 16:14								
Method: 8015B NM - Diesel Range	Organics (DRO) (GC)							
Analyte	Result Qualifier	RL	MDL (	Unit	D	Prepared	Analyzed	Dil Fac

49.8

49.8

14.9 mg/Kg

14.9 mg/Kg

<49.8 U

61.6

C10-C28)

(GRO)-C6-C10

Eurofins Xenco, Carlsbad

03/17/21 16:14 03/19/21 04:51

03/17/21 16:14 03/19/21 04:51

**Matrix: Solid** 

Job ID: 890-246-1 SDG: 11220758

**Client Sample ID: TP1-10** 

Lab Sample ID: 890-246-6

Matrix: Solid

Date Collected: 03/03/21 09:10 Date Received: 03/03/21 16:14

Method: 8015B NM - Diesel Ra	ange Organics (DRO)	(GC) (Contin	nued)
Analyte	Result Qualifier	RL	MDL

Analyte	Result	Qualifier	RL	MDL	Unit	ט	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 04:51	1
Total TPH	61.6		49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				03/17/21 16:14	03/19/21 04:51	1
o-Terphenyl	101		70 - 130				03/17/21 16:14	03/19/21 04:51	1

**Client Sample ID: TP1-12** Lab Sample ID: 890-246-7 Date Collected: 03/03/21 09:30

Date Received: 03/03/21 16:14

**Matrix: Solid** 

Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:12	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:12	1	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:12	1	
Total TPH	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:12	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	114	·	70 - 130				03/17/21 16:14	03/19/21 05:12	1	

o-Terphenyl 96 70 - 130 03/17/21 16:14 03/19/21 05:12 **Client Sample ID: TP1-13** 

Date Collected: 03/03/21 09:55 Date Received: 03/03/21 16:14

Lab Sample ID: 890-246-8

**Matrix: Solid** 

Mothod: 8015B NM - Diocal Pango Organics (DPO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:34	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				03/17/21 16:14	03/19/21 05:34	1
o-Terphenyl	105		70 - 130				03/17/21 16:14	03/19/21 05:34	1

Lab Sample ID: 890-246-9 **Client Sample ID: TP2-S** 

Date Collected: 03/03/21 10:30 Date Received: 03/03/21 16:14

**Matrix: Solid** 

Method: 300.0 - Chloride	- EPA 300.0						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.36	5.04	mg/kg		03/12/21 16:45	03/15/21 11:20	1

Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO										
	Analyte	Result	Qualifier	RL	MDL Un	it l	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (DRO)	118		50.0	mg	/kg	_	03/13/21 10:00	03/14/21 07:21	1

Eurofins Xenco, Carlsbad

Job ID: 890-246-1

Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

Lab Sample ID: 890-246-9 **Client Sample ID: TP2-S** Date Collected: 03/03/21 10:30 **Matrix: Solid** 

Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons (GRO)	59.9		50.0		mg/kg		03/13/21 10:00	03/14/21 07:21	1
Motor Oil Range Hydrocarbons (MRO)	52.9		50.0		mg/kg		03/13/21 10:00	03/14/21 07:21	1
Total TPH	231		50.0		mg/kg		03/13/21 10:00	03/14/21 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135				03/13/21 10:00	03/14/21 07:21	1
o-Terphenyl	93		70 - 135				03/13/21 10:00	03/14/21 07:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/12/21 17:00	03/12/21 22:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/12/21 17:00	03/12/21 22:47	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/12/21 17:00	03/12/21 22:47	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/12/21 17:00	03/12/21 22:47	1
Toluene	<0.00200	U	0.00200		mg/kg		03/12/21 17:00	03/12/21 22:47	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/12/21 17:00	03/12/21 22:47	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/12/21 17:00	03/12/21 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130				03/12/21 17:00	03/12/21 22:47	1
4-Bromofluorobenzene	98		70 - 130				03/12/21 17:00	03/12/21 22:47	1

**Client Sample ID: TP2-2** Lab Sample ID: 890-246-10 Date Collected: 03/03/21 10:35 **Matrix: Solid** Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				03/17/21 16:14	03/19/21 05:55	1
o-Terphenyl	102		70 - 130				03/17/21 16:14	03/19/21 05:55	1

**Client Sample ID: TP2-4** Lab Sample ID: 890-246-11 Date Collected: 03/03/21 10:40 **Matrix: Solid** Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 06:16	1
Diesel Range Organics (Over C10-C28)	16.7	J	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 06:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 06:16	1
Total TPH	16.7	J	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 06:16	1

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Job ID: 890-246-1

Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

**Client Sample ID: TP2-4** Lab Sample ID: 890-246-11 Date Collected: 03/03/21 10:40 **Matrix: Solid** 

Date Received: 03/03/21 16:14

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	03/17/21 16:14	03/19/21 06:16	1
o-Terphenyl	103		70 - 130	03/17/21 16:14	03/19/21 06:16	1

**Client Sample ID: TP2-6** Lab Sample ID: 890-246-12

Date Collected: 03/03/21 10:45 **Matrix: Solid** 

Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 06:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 06:37	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 06:37	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 06:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				03/17/21 16:14	03/19/21 06:37	1
o-Terphenyl	102		70 - 130				03/17/21 16:14	03/19/21 06:37	1

**Client Sample ID: TP4-S** Lab Sample ID: 890-246-13

Date Collected: 03/03/21 11:00 Date Received: 03/03/21 16:14

Method: 300.0 - Chloride - EPA 300.0										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	74.5		50.0		mg/kg		03/12/21 16:45	03/12/21 21:04	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	578		50.0		mg/kg		03/13/21 10:00	03/14/21 07:42	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 10:00	03/14/21 07:42	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 10:00	03/14/21 07:42	1
Total TPH	578		50.0		mg/kg		03/13/21 10:00	03/14/21 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	03/13/21 10:00 03/14/21 07:42	1
o-Terphenyl	91		70 - 135	03/13/21 10:00 03/14/21 07:42	1

Method: 8021 - BTEX - Volatiles I	by	8021	
Analyta		Dogult	$\sim$

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/12/21 17:00	03/12/21 23:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/12/21 17:00	03/12/21 23:07	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/12/21 17:00	03/12/21 23:07	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/12/21 17:00	03/12/21 23:07	1
Toluene	<0.00202	U	0.00202		mg/kg		03/12/21 17:00	03/12/21 23:07	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/12/21 17:00	03/12/21 23:07	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/12/21 17:00	03/12/21 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130	03/12/21 17:00	03/12/21 23:07	1
4-Bromofluorobenzene	98		70 - 130	03/12/21 17:00	03/12/21 23:07	1

Eurofins Xenco, Carlsbad

**Matrix: Solid** 

Client: GHD Services Inc.

Job ID: 890-246-1
Project/Site: Madison Fee COM #1/11220758

SDG: 11220758

Client Sample ID: TP4-2

Date Collected: 03/03/21 11:05

Lab Sample ID: 890-246-14

Matrix: Solid

Date Collected: 03/03/21 11:05
Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2610		49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 07:19	1
Diesel Range Organics (Over C10-C28)	5670		49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 07:19	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 07:19	1
Total TPH	8280		49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 07:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	220	S1+	70 - 130				03/17/21 16:14	03/19/21 07:19	1
o-Terphenyl	81		70 - 130				03/17/21 16:14	03/19/21 07:19	1

Client Sample ID: TP4-4

Date Collected: 03/03/21 11:10

Lab Sample ID: 890-246-15

Matrix: Solid

Date Received: 03/03/21 16:14

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac **Gasoline Range Organics** 50.1 15.0 mg/Kg 03/17/21 16:14 03/19/21 07:40 419 (GRO)-C6-C10 50.1 03/17/21 16:14 03/19/21 07:40 **Diesel Range Organics (Over** 1250 15.0 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.1 U 50.1 15.0 mg/Kg 03/17/21 16:14 03/19/21 07:40 50.1 15.0 mg/Kg 03/17/21 16:14 03/19/21 07:40 **Total TPH** 1670 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 148 S1+ 70 - 130 03/17/21 16:14 03/19/21 07:40 1-Chlorooctane

Client Sample ID: TP4-6

Date Collected: 03/03/21 11:15

Lab Sample ID: 890-246-16

Matrix: Solid

70 - 130

101

Date Received: 03/03/21 16:14

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	85.2		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:01	1
Diesel Range Organics (Over C10-C28)	306		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:01	1
Total TPH	391		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				03/17/21 16:14	03/19/21 08:01	1
o-Terphenyl	103		70 - 130				03/17/21 16:14	03/19/21 08:01	1

Client Sample ID: TP4-8

Lab Sample ID: 890-246-17

Date Collected: 03/03/21 11:30

Matrix: Solid

Date Received: 03/03/21 16:14

Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:22	1
	(GRO)-C6-C10									

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03/17/21 16:14 03/19/21 07:40

2

3

5

7

9

11

13

Job ID: 890-246-1

Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

**Client Sample ID: TP4-8** Lab Sample ID: 890-246-17

Date Collected: 03/03/21 11:30 **Matrix: Solid** Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	101		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:22	1
Total TPH	101		50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				03/17/21 16:14	03/19/21 08:22	1
o-Terphenyl	106		70 - 130				03/17/21 16:14	03/19/21 08:22	1

Lab Sample ID: 890-246-18 **Client Sample ID: TP4-10** 

Date Collected: 03/03/21 11:40 **Matrix: Solid** 

Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:43	1
Diesel Range Organics (Over C10-C28)	36.6	J	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:43	1
Total TPH	36.6	J	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 08:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/17/21 16:14	03/19/21 08:43	1

**Client Sample ID: TP3-S** Lab Sample ID: 890-246-19

70 - 130

99

Date Collected: 03/03/21 11:50

o-Terphenyl

Date Received: 03/03/21	16:14
_	

Method: 300.0 - Chloride - EPA	A 300.0								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.9		25.0		mg/kg		03/12/21 16:45	03/12/21 21:09	5

Chloride	32.9	25.0	mg/kg		03/12/21 16:45	03/12/21 21:09	5
Method: 8015B - Mod TPH NM	- SW846 8015B	TPH ORO					
Analyte	Result Quali	ifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	198	49.9	mg/kg		03/13/21 10:00	03/14/21 07:21	1

Summa mata	0/ Daggy (2007)	Ovalifian	Limita		Dramarad	Amalumad	Dil For
Total TPH	198		49.9	mg/kg	03/13/21 10:00	03/14/21 07:21	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9	mg/kg	03/13/21 10:00	03/14/21 07:21	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9	mg/kg	03/13/21 10:00	03/14/21 07:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 135	03/13/21 10:00	03/14/21 07:21	1
o-Terphenyl	89		70 - 135	03/13/21 10:00	03/14/21 07:21	1

Method: 8	021 - BTEX	<ul> <li>Volatiles</li> </ul>	by 8021

Welliou. 6021 - DTEX - Volatile	S Dy OUZ I								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/12/21 17:00	03/12/21 23:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/kg		03/12/21 17:00	03/12/21 23:28	1
m,p-Xylenes	<0.00402	U	0.00402		mg/kg		03/12/21 17:00	03/12/21 23:28	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/12/21 17:00	03/12/21 23:28	1
Toluene	<0.00201	U	0.00201		mg/kg		03/12/21 17:00	03/12/21 23:28	1

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**Matrix: Solid** 

03/17/21 16:14 03/19/21 08:43

Job ID: 890-246-1

Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

**Client Sample ID: TP3-S** Lab Sample ID: 890-246-19

Date Collected: 03/03/21 11:50 Matrix: Solid Date Received: 03/03/21 16:14

Method: 8021 - BTEX - Vo	olatiles by 8021 (	Continued	l)						
Analyte	Result	Qualifier	RL	MDL (	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201	r	mg/kg		03/12/21 17:00	03/12/21 23:28	1
Total Xylenes	<0.00201	U	0.00201	r	mg/kg		03/12/21 17:00	03/12/21 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	109		70 - 130				03/12/21 17:00	03/12/21 23:28	1
4-Bromofluorobenzene	106		70 - 130				03/12/21 17:00	03/12/21 23:28	1

Lab Sample ID: 890-246-20 **Client Sample ID: TP3-2** 

Date Collected: 03/03/21 11:55 Matrix: Solid

Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.2	J	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 09:04	1
Diesel Range Organics (Over C10-C28)	335		49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 09:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 09:04	1
Total TPH	362		49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 09:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				03/17/21 16:14	03/19/21 09:04	1
o-Terphenyl	106		70 - 130				03/17/21 16:14	03/19/21 09:04	1

Lab Sample ID: 890-246-21 **Client Sample ID: TP3-4** 

Date Collected: 03/03/21 12:00 Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	121		49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 09:26	1
Diesel Range Organics (Over C10-C28)	562		49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 09:26	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 09:26	1
Total TPH	683		49.8	14.9	mg/Kg		03/17/21 16:14	03/19/21 09:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				03/17/21 16:14	03/19/21 09:26	1
o-Terphenyl	109		70 - 130				03/17/21 16:14	03/19/21 09:26	1

**Client Sample ID: TP3-6** Lab Sample ID: 890-246-22 Date Collected: 03/03/21 12:10

Date Received: 03/03/21 16:14

Analyte	Result Qualifie	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	245	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 09:46	1
Diesel Range Organics (Over C10-C28)	1250	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 09:46	1
Oll Range Organics (Over C28-C36)	<50.0 U	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 09:46	1
Total TPH	1500	50.0	15.0	mg/Kg		03/17/21 16:14	03/19/21 09:46	1

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**Matrix: Solid** 

3/25/2021

**Matrix: Solid** 

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1

SDG: 11220758

Client Sample ID: TP3-6

Date Collected: 03/03/21 12:10 Date Received: 03/03/21 16:14 Lab Sample ID: 890-246-22

**Matrix: Solid** 

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130	03/17/21 16:14	03/19/21 09:46	1
o-Terphenyl	101		70 - 130	03/17/21 16:14	03/19/21 09:46	1

**Client Sample ID: TP3-8** Lab Sample ID: 890-246-23

Date Collected: 03/03/21 12:20 Date Received: 03/03/21 16:14

**Matrix: Solid** 

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Unit Analyte RL D Prepared Dil Fac Analyzed Gasoline Range Organics <50.1 U 03/17/21 16:14 03/19/21 10:07 50.1 15.0 mg/Kg (GRO)-C6-C10 <50.1 U 50.1 15.0 mg/Kg 03/17/21 16:14 03/19/21 10:07 Diesel Range Organics (Over C10-C28) <50.1 U Oll Range Organics (Over C28-C36) 50.1 15.0 mg/Kg 03/17/21 16:14 03/19/21 10:07 Total TPH <50.1 U 50.1 15.0 mg/Kg 03/17/21 16:14 03/19/21 10:07 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 70 - 130 03/17/21 16:14 03/19/21 10:07 121 o-Terphenyl 103 70 - 130 03/17/21 16:14 03/19/21 10:07

Client Sample ID: TP3-10 Lab Sample ID: 890-246-24

Date Collected: 03/03/21 12:45 Date Received: 03/03/21 16:14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 10:31	1
Diesel Range Organics (Over C10-C28)	16.3	J	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 10:31	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 10:31	1
Total TPH	16.3	J	49.9	15.0	mg/Kg		03/17/21 16:14	03/19/21 10:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				03/17/21 16:14	03/19/21 10:31	1
o-Terphenyl	104		70 - 130				03/17/21 16:14	03/19/21 10:31	1

**Client Sample ID: TP3-12** Lab Sample ID: 890-246-25

Date Collected: 03/03/21 13:00 Date Received: 03/03/21 16:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		03/19/21 17:00	03/23/21 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		03/19/21 17:00	03/23/21 14:14	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/19/21 17:00	03/23/21 14:14	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		03/19/21 17:00	03/23/21 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				03/19/21 17:00	03/23/21 14:14	1
o-Terphenyl	106		70 - 130				03/19/21 17:00	03/23/21 14:14	1

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Matrix: Solid

5

Job ID: 890-246-1

03/13/21 10:00 03/14/21 08:26

Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

**Client Sample ID: HA1-S** Lab Sample ID: 890-246-26

Date Collected: 03/03/21 13:30 **Matrix: Solid** Date Received: 03/03/21 16:14

Method: 300.0 - Chloride - EP	A 300.0								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		50.0		mg/kg		03/12/21 16:45	03/12/21 21:14	10

_Chloride	65.5		50.0		mg/kg		03/12/21 16:45	03/12/21 21:14	10
- Method: 8015B - Mod TPH NM	- SW846 80	15B TPH	ORO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	11300		249		mg/kg		03/13/21 10:00	03/14/21 08:26	5
Gasoline Range Hydrocarbons (GRO)	406		249		mg/kg		03/13/21 10:00	03/14/21 08:26	5
Motor Oil Range Hydrocarbons (MRO)	<249	U	249		mg/kg		03/13/21 10:00	03/14/21 08:26	5
Total TPH	11700		249		mg/kg		03/13/21 10:00	03/14/21 08:26	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135				03/13/21 10:00	03/14/21 08:26	5

70 - 135

84

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/12/21 17:00	03/12/21 23:49	1
Ethylbenzene	0.00245		0.00200		mg/kg		03/12/21 17:00	03/12/21 23:49	1
m,p-Xylenes	0.0404		0.00399		mg/kg		03/12/21 17:00	03/12/21 23:49	1
o-Xylene	0.0182		0.00200		mg/kg		03/12/21 17:00	03/12/21 23:49	1
Toluene	0.00694		0.00200		mg/kg		03/12/21 17:00	03/12/21 23:49	1
Total BTEX	0.0680		0.00200		mg/kg		03/12/21 17:00	03/12/21 23:49	1
Total Xylenes	0.0586		0.00200		mg/kg		03/12/21 17:00	03/12/21 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130				03/12/21 17:00	03/12/21 23:49	1
4-Bromofluorobenzene	101		70 - 130				03/12/21 17:00	03/12/21 23:49	1

Client Sample ID: HA1-2 Lab Sample ID: 890-246-27 Date Collected: 03/03/21 13:40 **Matrix: Solid** 

Date Received: 03/03/21 16:14

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2120		49.8	14.9	mg/Kg		03/19/21 17:00	03/23/21 14:35	1
Diesel Range Organics (Over C10-C28)	6040		49.8	14.9	mg/Kg		03/19/21 17:00	03/23/21 14:35	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		03/19/21 17:00	03/23/21 14:35	1
Total TPH	8160		49.8	14.9	mg/Kg		03/19/21 17:00	03/23/21 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				03/19/21 17:00	03/23/21 14:35	1
o-Terphenyl	97		70 - 130				03/19/21 17:00	03/23/21 14:35	1

Client Sample ID: HA1-4 Lab Sample ID: 890-246-28 Date Collected: 03/03/21 13:45 **Matrix: Solid** 

Date Received: 03/03/21 16:14

Method: 8015B NM - Diese	el Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	839		50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:07	1

Client: GHD Services Inc.

Date Received: 03/03/21 16:14

Job ID: 890-246-1 SDG: 11220758

Project/Site: Madison Fee COM #1/11220758

Client Sample ID: HA1-4 Lab Sample ID: 890-246-28 Date Collected: 03/03/21 13:45

**Matrix: Solid** 

03/19/21 17:00 03/23/21 17:07

03/19/21 17:00 03/23/21 17:29

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

103

103

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	2370		50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:07	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:07	1
Total TPH	3210		50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130				03/19/21 17:00	03/23/21 17:07	1

**Client Sample ID: HA1-6** Lab Sample ID: 890-246-29 **Matrix: Solid** 

70 - 130

Date Collected: 03/03/21 13:50

Date Received: 03/03/21 16:14

o-Terphenyl

1-Chlorooctane

Method: 8015B NM - Diesel R Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:29	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:29	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

03/19/21 17:00 03/23/21 17:29 o-Terphenyl 102 70 - 130 **Client Sample ID: HA1-8** Lab Sample ID: 890-246-30

70 - 130

Date Collected: 03/03/21 14:00 Date Received: 03/03/21 16:14

Method: 8015B NM - Diesel Ra	ange Organi	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:50	1
Diesel Range Organics (Over C10-C28)	48.5	J	50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:50	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:50	1
Total TPH	48.5	J	50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106	-	70 - 130				03/19/21 17:00	03/23/21 17:50	1
o-Terphenyl	109		70 - 130				03/19/21 17:00	03/23/21 17:50	1

**Client Sample ID: HA1-10** Lab Sample ID: 890-246-31

Date Collected: 03/03/21 14:15 Date Received: 03/03/21 16:14

Released to Imaging: 9/13/2022 2:25:32 PM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 18:12	1
Diesel Range Organics (Over	<50.1	U	50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 18:12	1

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**Matrix: Solid** 

**Matrix: Solid** 

# **Client Sample Results**

Client: GHD Services Inc.

Job ID: 890-246-1
Project/Site: Madison Fee COM #1/11220758

SDG: 11220758

Client Sample ID: HA1-10 Lab Sample ID: 890-246-31

Date Collected: 03/03/21 14:15

Date Collected: 03/03/21 14:15 Matrix: Solice Collected: 03/03/21 16:14

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 18:12	1	
Total TPH	<50.1	U	50.1	15.0	mg/Kg		03/19/21 17:00	03/23/21 18:12	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	111		70 - 130				03/19/21 17:00	03/23/21 18:12	1	
o-Terphenyl	113		70 - 130				03/19/21 17:00	03/23/21 18:12	1	

0

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12

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# **Surrogate Summary**

Job ID: 890-246-1 Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

**Matrix: Solid Prep Type: Total/NA** 

			Perc	ent Surrogate Recovery (Acceptance Limits
		1001	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-246-2	TP1-2	179 S1+	88	
0-246-2 MS	TP1-2	197 S1+	85	
0-246-2 MSD	TP1-2	175 S1+	85	
0-246-3	TP1-4	141 S1+	96	
0-246-4	TP1-6	143 S1+	104	
0-246-5	TP1-8	115	100	
0-246-6	TP1-10	120	101	
0-246-7	TP1-12	114	96	
0-246-8	TP1-13	126	105	
0-246-10	TP2-2	120	102	
0-246-11	TP2-4	121	103	
0-246-12	TP2-6	120	102	
0-246-14	TP4-2	220 S1+	81	
0-246-15	TP4-4	148 S1+	101	
0-246-16	TP4-6	130	103	
0-246-17	TP4-8	126	106	
0-246-18	TP4-10	119	99	
0-246-20	TP3-2	136 S1+	106	
0-246-21	TP3-4	139 S1+	109	
0-246-22	TP3-6	141 S1+	101	
0-246-23	TP3-8	121	103	
0-246-24	TP3-10	124	104	
0-246-25	TP3-12	113	106	
0-246-27	HA1-2	97	97	
0-246-28	HA1-4	162 S1+	103	
0-246-29	HA1-6	103	102	
0-246-30	HA1-8	106	102	
0-246-31	HA1-10	111	113	
S 880-536/2-A	Lab Control Sample	130	99	
S 880-704/2-A	Lab Control Sample	116	110	
SD 880-536/3-A	Lab Control Sample Dup	130	105	
SD 880-704/3-A	Lab Control Sample Dup	116	105	
3 880-536/1-A	Method Blank	0.6 S1-	0.5 S1-	
3 880-704/1-A	Method Blank	105	112	

**Surrogate Legend** 

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO

Matrix: Solid Prep Type: Total/NA

_			Percent	Surrogate Recovery (Acceptance Limits)
		1CO	ОТРН	
Lab Sample ID	Client Sample ID	(70-135)	(70-135)	
890-246-1	TP1-S	113	92	
890-246-9	TP2-S	91	93	
890-246-13	TP4-S	90	91	
890-246-19	TP3-S	102	89	
890-246-26	HA1-S	108	84	

Job ID: 890-246-1 SDG: 11220758

# **Surrogate Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

**Surrogate Legend** 

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Method: 8021 - BTEX - Volatiles by 8021

**Matrix: SOIL** Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(70-130)	
690437-001 S	Matrix Spike	95	
690437-001 SD	Matrix Spike Duplicate	99	
690437-002 S	Matrix Spike	103	
690437-002 SD	Matrix Spike Duplicate	103	
7723142-1-BKS	Lab Control Sample	87	
7723142-1-BLK	Method Blank	60 **	
7723142-1-BSD	Lab Control Sample Dup	101	
7723262-1-BKS	Lab Control Sample	101	
7723262-1-BLK	Method Blank	104	
7723262-1-BSD	Lab Control Sample Dup	96	

Method: 8021 - BTEX - Volatiles by 8021

**Matrix: Solid** Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		BFB	DFBZ					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)					
890-246-1	TP1-S	105	96					
890-246-9	TP2-S	98	106					
890-246-13	TP4-S	98	104					
890-246-19	TP3-S	106	109					
890-246-26	HA1-S	101	102					
Surrogate Legend								

BFB = 4-Bromofluorobenzene

DFBZ = 1,4-Difluorobenzene

Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1

SDG: 11220758

# Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-536/1-A

**Matrix: Solid** 

**Analysis Batch: 580** 

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

Prep Batch: 536

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte <50.0 U 15.0 mg/Kg 03/17/21 16:14 03/19/21 01:39 Gasoline Range Organics 50.0 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 03/17/21 16:14 03/19/21 01:39 15.0 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 15.0 mg/Kg 03/17/21 16:14 03/19/21 01:39 Total TPH <50.0 U 50.0 15.0 mg/Kg 03/17/21 16:14 03/19/21 01:39

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
1-Chlorooctane	0.6	S1-	70 - 130	03/17/21 16:14	03/19/21 01:39
o-Terphenyl	0.5	S1-	70 - 130	03/17/21 16:14	03/19/21 01:39

Lab Sample ID: LCS 880-536/2-A

**Matrix: Solid** 

**Analysis Batch: 580** 

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

Prep Batch: 536

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1083 mg/Kg 108 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 982.1 mg/Kg 98 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-536/3-A

**Matrix: Solid** 

**Analysis Batch: 580** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA Prep Batch: 536

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1064 106 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1043 mg/Kg 104 70 - 130 20 C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-246-2 MS

**Matrix: Solid** 

**Analysis Batch: 580** 

**Client Sample ID: TP1-2 Prep Type: Total/NA** 

Prep Batch: 536

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	943		997	2010		mg/Kg		107	70 - 130	
Diesel Range Organics (Over C10-C28)	3740	F1	997	4824		mg/Kg		108	70 - 130	

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Dil Fac

Client: GHD Services Inc. Job ID: 890-246-1 Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

# Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-246-2 MS

**Matrix: Solid** 

**Analysis Batch: 580** 

**Client Sample ID: TP1-2** Prep Type: Total/NA Prep Batch: 536

MS MS %Recovery Qualifier Surrogate Limits 197 S1+ 1-Chlorooctane 70 - 130 o-Terphenyl 85 70 - 130

Lab Sample ID: 890-246-2 MSD **Client Sample ID: TP1-2** 

**Matrix: Solid** 

**Analysis Batch: 580** 

Prep Type: Total/NA Prep Batch: 536

RPD MSD MSD %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 943 997 1801 mg/Kg 86 70 - 130 11 20 (GRO)-C6-C10 Diesel Range Organics (Over 3740 F1 997 4188 F1 mg/Kg 45 70 - 130 14 20 C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 175 S1+ 70 - 130 70 - 130 o-Terphenyl 85

Lab Sample ID: MB 880-704/1-A

**Matrix: Solid** 

**Analysis Batch: 716** 

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

Prep Batch: 704

MB MB Result Qualifier RL MDL Unit Analyte D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 15.0 mg/Kg (GRO)-C6-C10 <50.0 U 50.0 Diesel Range Organics (Over 15.0 mg/Kg 03/22/21 15:38 03/23/21 14:58 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 15.0 mg/Kg 03/22/21 15:38 03/23/21 14:58 Total TPH <50.0 U 50.0 15.0 mg/Kg 03/22/21 15:38 03/23/21 14:58

MR MR Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 105 70 - 130 1-Chlorooctane 03/22/21 15:38 03/23/21 14:58 70 - 130 o-Terphenyl 112 03/22/21 15:38 03/23/21 14:58

Lab Sample ID: LCS 880-704/2-A

**Matrix: Solid** 

**Analysis Batch: 716** 

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

Prep Batch: 704

LCS LCS Spike %Rec. Added Analyte Result Qualifier Limits Unit D %Rec Gasoline Range Organics 1000 1202 120 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1097 mg/Kg 110 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenvl	110		70 - 130

Lab Sample ID: LCSD 880-704/3-A

Client: GHD Services Inc. Job ID: 890-246-1 Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 704

**Analysis Batch: 716** Spike LCSD LCSD %Rec. **RPD** Result Qualifier Added %Rec Limits RPD Limit Analyte Unit Gasoline Range Organics 1000 1182 mg/Kg 118 70 - 130 2 20 (GRO)-C6-C10 1000 1053 Diesel Range Organics (Over 105 70 - 130 mg/Kg 20

C10-C28)

**Matrix: Solid** 

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 116 105 70 - 130 o-Terphenyl

Method: 300.0 - Chloride - EPA 300.0

Lab Sample ID: 7723049-1-BLK **Client Sample ID: Method Blank** 

**Matrix: SOIL** Prep Type: Total/NA Prep Batch: 3153317\_P Analysis Batch: 3153317

**BLANK BLANK** Result Qualifier

**MDL** Unit RL Analyte Prepared Analyzed Dil Fac 03/11/21 09:10 03/11/21 09:31 Chloride <5 U 5 mg/kg

Lab Sample ID: 7723049-1-BKS **Client Sample ID: Lab Control Sample Matrix: SOIL** Prep Type: Total/NA

Prep Batch: 3153317\_P **Analysis Batch: 3153317** LCS LCS Spike %Rec.

Analyte Added Result Qualifier Limits Unit D %Rec Chloride 250 254 102 80 - 120 mg/kg

Lab Sample ID: 7723049-1-BSD Client Sample ID: Lab Control Sample Dup **Matrix: SOIL** Prep Type: Total/NA

Analysis Batch: 3153317 Prep Batch: 3153317 P Spike LCSD LCSD %Rec. RPD

**Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 254 102 80 - 120 mg/kg

Lab Sample ID: 7723297-1-BLK Client Sample ID: Method Blank **Matrix: SOIL** Prep Type: Total/NA

Analysis Batch: 3153625 Prep Batch: 3153625\_P

**BLANK BLANK** Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Chloride <5 U 5 mg/kg 03/12/21 16:45 03/12/21 18:44

Lab Sample ID: 7723297-1-BKS **Client Sample ID: Lab Control Sample Matrix: SOIL** Prep Type: Total/NA Prep Batch: 3153625\_P

Analysis Batch: 3153625 LCS LCS Spike %Rec. Added Result Qualifier Unit D %Rec Limits

Analyte 250 80 - 120 Chloride 246 98 mg/kg

Spike

Added

250

LCSD LCSD

245

Result Qualifier

Unit

mg/kg

D

Client: GHD Services Inc. Project/Site: Madison Fee COM #1/11220758

SDG: 11220758

Job ID: 890-246-1

Method: 300.0 - Chloride - EPA 300.0 (Continued)

Lab Sample ID: 7723297-1-BSD

**Matrix: SOIL** 

Analysis Batch: 3153625

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153625 P %Rec. **RPD** %Rec Limits RPD Limit

98 80 - 120 0 20

Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO

Lab Sample ID: 7723045-1-BLK

**Matrix: SOIL** 

Analyte

Chloride

Analysis Batch: 3153290

**Client Sample ID: Method Blank** 

Prep Type: Total/NA Prep Batch: 3153290\_P

**BLANK BLANK** Result Qualifier RL **MDL** Unit **Prepared** Analyzed Dil Fac 50 <50 U 03/10/21 17:00 03/10/21 21:38 Diesel Range Organics (DRO) mg/kg <50 U 50 Gasoline Range Hydrocarbons (GRO) mg/kg 03/10/21 17:00 03/10/21 21:38 Motor Oil Range Hydrocarbons (MRO) <50 U 50 mg/kg 03/10/21 17:00 03/10/21 21:38

Lab Sample ID: 7723045-1-BKS

**Matrix: SOIL** 

Analysis Batch: 3153290

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 3153290\_P

%Rec.

Spike LCS LCS Added Result Qualifier Unit D %Rec Limits Diesel Range Organics (DRO) 1000 1000 mg/kg 100 70 - 135 1000 1080 Gasoline Range Hydrocarbons mg/kg 108 70 - 135

(GRO)

Lab Sample ID: 7723045-1-BSD

**Matrix: SOIL** 

Analysis Batch: 3153290

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 3153290 P

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D Diesel Range Organics (DRO) 1000 1030 mg/kg 103 70 - 1353 20 Gasoline Range Hydrocarbons 1000 1090 mg/kg 109 70 - 135 (GRO)

Lab Sample ID: 7723334-1-BLK

**Matrix: SOIL** 

Analysis Batch: 3153694

**Client Sample ID: Method Blank** 

Prep Type: Total/NA Prep Batch: 3153694 P

	BLANK	BLANK								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/13/21 10:00	03/13/21 21:59	1	
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/13/21 10:00	03/13/21 21:59	1	
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/13/21 10:00	03/13/21 21:59	1	

Lab Sample ID: 7723334-1-BKS

**Matrix: SOIL** 

Analysis Batch: 3153694

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

Prep Batch: 3153694\_P

	Spike	LCS	LCS				%Rec.	_
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics (DRO)	1000	1020		mg/kg		102	70 - 135	
Gasoline Range Hydrocarbons	1000	1090		mg/kg		109	70 - 135	

(GRO)

LCSD LCSD

977

1040

Result Qualifier Unit

mg/kg

mg/kg

Client: GHD Services Inc. Job ID: 890-246-1 Project/Site: Madison Fee COM #1/11220758

Spike

Added

1000

1000

SDG: 11220758

# Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO (Continued)

Lab Sample ID: 7723334-1-BSD

**Matrix: SOIL** 

Analysis Batch: 3153694

Diesel Range Organics (DRO)

Gasoline Range Hydrocarbons

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 3153694\_P

%Rec. **RPD** D %Rec Limits **RPD** Limit 98 70 - 135 4 20 104 70 - 135 20

(GRO)

Analyte

Lab Sample ID: 7723336-1-BLK

**Matrix: SOIL** 

Analysis Batch: 3153698

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** Prep Batch: 3153698\_P

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	BLANK	BLANK							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/13/21 10:00	03/13/21 21:59	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/13/21 10:00	03/13/21 21:59	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/13/21 10:00	03/13/21 21:59	1
	Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO)	AnalyteResultDiesel Range Organics (DRO)<50	Diesel Range Organics (DRO) <50 U  Gasoline Range Hydrocarbons (GRO) <50 U	Analyte         Result         Qualifier         RL           Diesel Range Organics (DRO)         <50	AnalyteResultQualifierRLMDLDiesel Range Organics (DRO)<50	AnalyteResult Diesel Range Organics (DRO)Result 450Qualifier URLMDL 50Unit mg/kgGasoline Range Hydrocarbons (GRO)450U50mg/kg	AnalyteResult Diesel Range Organics (DRO)RL UMDL UUnit mg/kgDGasoline Range Hydrocarbons (GRO)<50	Analyte         Result Diesel Range Organics (DRO)         Result Vullet         Qualifier Vullet         RL Vullet         MDL Vullet         D Vullet         Prepared Vullet           Gasoline Range Hydrocarbons (GRO)         <50 U	Analyte         Result Diesel Range Organics (DRO)         Qualifier Volume         RL State Volume         MDL Volit

Lab Sample ID: 7723336-1-BKS **Matrix: SOIL** 

Analysis Batch: 3153698

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

Prep Batch: 3153698\_P

_	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics (DRO)	1000	1130		mg/kg		113	70 - 135	
Gasoline Range Hydrocarbons (GRO)	1000	1170		mg/kg		117	70 - 135	

Lab Sample ID: 7723336-1-BSD

**Matrix: SOIL** 

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

Analysis Batch: 3153698							Prep Batch: 3153698_P						
	Spike	LCSD	LCSD				%Rec.		RPD				
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
Diesel Range Organics (DRO)	1000	1100		mg/kg		110	70 - 135	3	20				
Gasoline Range Hydrocarbons (GRO)	1000	1140		mg/kg		114	70 - 135	3	20				

#### Method: 8021 - BTEX - Volatiles by 8021

Lab Sample ID: 7723142-1-BLK

**Matrix: SOIL** 

4-Bromofluorobenzene

Analysis Batch: 3153495

**Client Sample ID: Method Blank Prep Type: Total/NA** Prep Batch: 3153495 P

03/11/21 17:00 03/12/21 12:25

/ indigote Date in Cito icc								P = ato 0 . 0.	<i>-</i>
	BLANK	BLANK							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/11/21 17:00	03/12/21 12:25	1
Ethylbenzene	<.002	U	.002		mg/kg		03/11/21 17:00	03/12/21 12:25	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/11/21 17:00	03/12/21 12:25	1
o-Xylene	<.002	U	.002		mg/kg		03/11/21 17:00	03/12/21 12:25	1
Toluene	<.002	U	.002		mg/kg		03/11/21 17:00	03/12/21 12:25	1
	BLANK	BLANK							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

Client: GHD Services Inc.

Job ID: 890-246-1
Project/Site: Madison Fee COM #1/11220758

SDG: 11220758

# Method: 8021 - BTEX - Volatiles by 8021 (Continued)

Lab Sample ID: 7723142-1-BKS

**Matrix: SOIL** 

Analysis Batch: 3153495

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

Prep Batch: 3153495\_P

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	.1	0.0859		mg/kg		86	70 - 130	
Ethylbenzene	.1	0.0830		mg/kg		83	71 - 129	
m,p-Xylenes	.2	0.171		mg/kg		86	70 - 135	
o-Xylene	.1	0.0848		mg/kg		85	71 - 133	
Toluene	.1	0.0856		mg/kg		86	70 - 130	

LCS LCS

Surrogate%RecoveryQualifierLimits4-Bromofluorobenzene8770 - 130

Lab Sample ID: 7723142-1-BSD Client Sample ID: Lab Control Sample Dup

Matrix: SOIL

Analysis Batch: 3153495

Prep Type: Total/NA

Prep Batch: 3153495\_P

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene .1 0.0822 mg/kg 82 70 - 130 4 35 Ethylbenzene 0.0848 85 71 - 129 2 35 .1 mg/kg 0.174 87 m,p-Xylenes .2 mg/kg 70 - 135 2 35 o-Xylene .1 0.0915 mg/kg 92 71 - 133 8 35 Toluene 0.0861 mg/kg 70 - 130 35 .1

LCSD LCSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene
 101
 70 - 130

Lab Sample ID: 690437-001 S

**Matrix: SOIL** 

Analysis Batch: 3153495

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 3153495\_P

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<.00199		.0998	0.0270	X	mg/kg		27	70 - 130	
Ethylbenzene	<.00199		.0998	0.0327	Χ	mg/kg		33	71 - 129	
m,p-Xylenes	<.00398		.2	0.0687	Χ	mg/kg		34	70 - 135	
o-Xylene	<.00199		.0998	0.0384	Χ	mg/kg		38	71 - 133	
Toluene	0.00490		.0998	0.0297	X	mg/kg		25	70 - 130	

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene
 95
 70 - 130

Lab Sample ID: 690437-001 SD

**Matrix: SOIL** 

Analysis Batch: 3153495

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Prep Batch: 3153495\_P

,											
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<.00199		.0996	0.0691	XF	mg/kg		69	70 - 130	88	35
Ethylbenzene	<.00199		.0996	0.0660	ΧF	mg/kg		66	71 - 129	67	35
m,p-Xylenes	<.00398		.199	0.136	ΧF	mg/kg		68	70 - 135	66	35
o-Xylene	<.00199		.0996	0.0686	ΧF	mg/kg		69	71 - 133	56	35
Toluene	0.00490		.0996	0.0690	ΧF	mg/kg		64	70 - 130	80	35

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Client: GHD Services Inc. Job ID: 890-246-1 Project/Site: Madison Fee COM #1/11220758

SDG: 11220758

Method: 8021 - BTEX - Volatiles by 8021 (Continued)

Lab Sample ID: 690437-001 SD **Matrix: SOIL** 

Analysis Batch: 3153495

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Prep Batch: 3153495\_P

MSD MSD

Limits Surrogate %Recovery Qualifier 70 - 130 4-Bromofluorobenzene 99

Lab Sample ID: 7723262-1-BLK

**Matrix: SOIL** 

Analysis Batch: 3153566

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

Prep Batch: 3153566 P

**BLANK BLANK** Result Qualifier RL **MDL** Unit **Analyte** Prepared Analyzed Dil Fac <.002 U .002 03/12/21 17:00 03/12/21 22:25 Benzene mg/kg Ethylbenzene <.002 U .002 mg/kg 03/12/21 17:00 03/12/21 22:25 <.004 U .004 03/12/21 17:00 03/12/21 22:25 m,p-Xylenes mg/kg o-Xylene <.002 U .002 03/12/21 17:00 03/12/21 22:25 mg/kg Toluene <.002 U .002 mg/kg 03/12/21 17:00 03/12/21 22:25

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Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 70 - 130 4-Bromofluorobenzene 104 03/12/21 17:00 03/12/21 22:25

Lab Sample ID: 7723262-1-BKS

**Matrix: SOIL** 

Analysis Batch: 3153566

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

Prep Batch: 3153566 P

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.108 mg/kg 70 - 130 108 Ethylbenzene .1 0.101 mg/kg 101 71 - 129 .2 0.206 103 70 - 135 m,p-Xylenes mg/kg o-Xylene .1 0.0995 mg/kg 100 71 - 133 Toluene .1 0.104 104 70 - 130 mg/kg

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene 101 70 - 130

Lab Sample ID: 7723262-1-BSD

**Matrix: SOIL** 

Analysis Batch: 3153566

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

Prep Batch: 3153566 P

Spike LCSD LCSD %Rec. RPD Added RPD Limit Analyte Result Qualifier Unit D %Rec Limits Benzene .1 0.104 104 70 - 130 35 mg/kg Ethylbenzene 0.0962 71 - 129 35 .1 mg/kg 96 5 m,p-Xylenes .2 0.193 mg/kg 97 70 - 135 35 o-Xylene 0.0943 71 - 13335 1 mg/kg 94 5 Toluene .1 0.0983 mg/kg 98 70 - 130 35

LCSD LCSD

%Recovery Surrogate Qualifier Limits 70 - 130 4-Bromofluorobenzene 96

# **QC Sample Results**

Client: GHD Services Inc.

Job ID: 890-246-1

Project/Site: Madison Fee COM #1/11220758

SDG: 11220758

Method: 8021 - BTEX - Volatiles by 8021 (Continued)

Lab Sample ID: 690437-002 S

Matrix: SOIL

Analysis Batch: 3153566

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 3153566\_P

,	Sample	Sample	Spike	MS	MS				%Rec.	_
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<.00199		.1	0.0976		mg/kg		98	70 - 130	
Ethylbenzene	<.00199		.1	0.0894		mg/kg		89	71 - 129	
m,p-Xylenes	<.00398		.2	0.184		mg/kg		92	70 - 135	
o-Xylene	<.00199		.1	0.0887		mg/kg		89	71 - 133	
Toluene	<.00199		.1	0.0934		mg/kg		93	70 - 130	
	MC	ме								

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene
 103
 70 - 130

Lab Sample ID: 690437-002 SD

**Matrix: SOIL** 

Analysis Batch: 3153566

<b>Client Sample</b>	ID: Matrix Spike	<b>Duplicate</b>
	Duna Time	- T-4-1/NIA

Prep Type: Total/NA

Prep Batch: 3153566\_P

	Sample S	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result (	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<.00199		.0994	0.0990		mg/kg		100	70 - 130	1	35
Ethylbenzene	<.00199		.0994	0.0914		mg/kg		92	71 - 129	2	35
m,p-Xylenes	<.00398		.199	0.184		mg/kg		92	70 - 135	0	35
o-Xylene	<.00199		.0994	0.0895		mg/kg		90	71 - 133	1	35
Toluene	<.00199		.0994	0.0934		mg/kg		94	70 - 130	0	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene	103	70 - 130

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1

SDG: 11220758

**GC Semi VOA** 

Prep Batch: 536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-246-2	TP1-2	Total/NA	Solid	8015NM Prep	
890-246-3	TP1-4	Total/NA	Solid	8015NM Prep	
890-246-4	TP1-6	Total/NA	Solid	8015NM Prep	
890-246-5	TP1-8	Total/NA	Solid	8015NM Prep	
890-246-6	TP1-10	Total/NA	Solid	8015NM Prep	
890-246-7	TP1-12	Total/NA	Solid	8015NM Prep	
890-246-8	TP1-13	Total/NA	Solid	8015NM Prep	
890-246-10	TP2-2	Total/NA	Solid	8015NM Prep	
890-246-11	TP2-4	Total/NA	Solid	8015NM Prep	
890-246-12	TP2-6	Total/NA	Solid	8015NM Prep	
890-246-14	TP4-2	Total/NA	Solid	8015NM Prep	
890-246-15	TP4-4	Total/NA	Solid	8015NM Prep	
890-246-16	TP4-6	Total/NA	Solid	8015NM Prep	
890-246-17	TP4-8	Total/NA	Solid	8015NM Prep	
890-246-18	TP4-10	Total/NA	Solid	8015NM Prep	
890-246-20	TP3-2	Total/NA	Solid	8015NM Prep	
890-246-21	TP3-4	Total/NA	Solid	8015NM Prep	
890-246-22	TP3-6	Total/NA	Solid	8015NM Prep	
890-246-23	TP3-8	Total/NA	Solid	8015NM Prep	
890-246-24	TP3-10	Total/NA	Solid	8015NM Prep	
MB 880-536/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-536/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-536/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-246-2 MS	TP1-2	Total/NA	Solid	8015NM Prep	
890-246-2 MSD	TP1-2	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 580** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-2	TP1-2	Total/NA	Solid	8015B NM	536
890-246-3	TP1-4	Total/NA	Solid	8015B NM	536
890-246-4	TP1-6	Total/NA	Solid	8015B NM	536
890-246-5	TP1-8	Total/NA	Solid	8015B NM	536
890-246-6	TP1-10	Total/NA	Solid	8015B NM	536
890-246-7	TP1-12	Total/NA	Solid	8015B NM	536
890-246-8	TP1-13	Total/NA	Solid	8015B NM	536
890-246-10	TP2-2	Total/NA	Solid	8015B NM	536
890-246-11	TP2-4	Total/NA	Solid	8015B NM	536
890-246-12	TP2-6	Total/NA	Solid	8015B NM	536
890-246-14	TP4-2	Total/NA	Solid	8015B NM	536
890-246-15	TP4-4	Total/NA	Solid	8015B NM	536
890-246-16	TP4-6	Total/NA	Solid	8015B NM	536
890-246-17	TP4-8	Total/NA	Solid	8015B NM	536
890-246-18	TP4-10	Total/NA	Solid	8015B NM	536
890-246-20	TP3-2	Total/NA	Solid	8015B NM	536
890-246-21	TP3-4	Total/NA	Solid	8015B NM	536
890-246-22	TP3-6	Total/NA	Solid	8015B NM	536
890-246-23	TP3-8	Total/NA	Solid	8015B NM	536
890-246-24	TP3-10	Total/NA	Solid	8015B NM	536
MB 880-536/1-A	Method Blank	Total/NA	Solid	8015B NM	536
LCS 880-536/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	536
LCSD 880-536/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	536

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1

SDG: 11220758

# **GC Semi VOA (Continued)**

## **Analysis Batch: 580 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-2 MS	TP1-2	Total/NA	Solid	8015B NM	536
890-246-2 MSD	TP1-2	Total/NA	Solid	8015B NM	536

#### Prep Batch: 704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-25	TP3-12	Total/NA	Solid	8015NM Prep	
890-246-27	HA1-2	Total/NA	Solid	8015NM Prep	
890-246-28	HA1-4	Total/NA	Solid	8015NM Prep	
890-246-29	HA1-6	Total/NA	Solid	8015NM Prep	
890-246-30	HA1-8	Total/NA	Solid	8015NM Prep	
890-246-31	HA1-10	Total/NA	Solid	8015NM Prep	
MB 880-704/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-704/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-704/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## **Analysis Batch: 716**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-25	TP3-12	Total/NA	Solid	8015B NM	704
890-246-27	HA1-2	Total/NA	Solid	8015B NM	704
890-246-28	HA1-4	Total/NA	Solid	8015B NM	704
890-246-29	HA1-6	Total/NA	Solid	8015B NM	704
890-246-30	HA1-8	Total/NA	Solid	8015B NM	704
890-246-31	HA1-10	Total/NA	Solid	8015B NM	704
MB 880-704/1-A	Method Blank	Total/NA	Solid	8015B NM	704
LCS 880-704/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	704
LCSD 880-704/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	704

### **Subcontract**

## Analysis Batch: 3153290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-1	TP1-S	Total/NA	Solid	8015B - Mod	3153290_P
				TPH NM	
7723045-1-BLK	Method Blank	Total/NA	SOIL	8015B - Mod	3153290_P
				TPH NM	
7723045-1-BKS	Lab Control Sample	Total/NA	SOIL	8015B - Mod	3153290_P
				TPH NM	
7723045-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015B - Mod	3153290_P
				TPH NM	

## Analysis Batch: 3153317

	<b>ab Sample ID</b> 00-246-1	Client Sample ID TP1-S	Prep Type Total/NA	Matrix Solid	Method 300.0 - Chloride	Prep Batch 3153317_P
77	'23049-1-BLK	Method Blank	Total/NA	SOIL	300.0 - Chloride	3153317_P
77	'23049-1-BKS	Lab Control Sample	Total/NA	SOIL	300.0 - Chloride	3153317_P
77	'23049-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	300.0 - Chloride	3153317_P

## Analysis Batch: 3153495

<b>Lab Sample ID</b> 890-246-1	Client Sample ID TP1-S	Prep Type Total/NA	Matrix Solid	Method 8021 - BTEX	Prep Batch 3153495_P
7723142-1-BLK	Method Blank	Total/NA	SOIL	8021 - BTEX	3153495_P
7723142-1-BKS	Lab Control Sample	Total/NA	SOIL	8021 - BTEX	3153495_P

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1

SDG: 11220758

# **Subcontract (Continued)**

## **Analysis Batch: 3153495 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7723142-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8021 - BTEX	3153495_P
690437-001 S	Matrix Spike	Total/NA	SOIL	8021 - BTEX	3153495_P
690437-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	8021 - BTEX	3153495_P

## Analysis Batch: 3153566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-9	TP2-S	Total/NA	Solid	8021 - BTEX	3153566_P
890-246-13	TP4-S	Total/NA	Solid	8021 - BTEX	3153566_P
890-246-19	TP3-S	Total/NA	Solid	8021 - BTEX	3153566_P
890-246-26	HA1-S	Total/NA	Solid	8021 - BTEX	3153566_P
7723262-1-BLK	Method Blank	Total/NA	SOIL	8021 - BTEX	3153566_P
7723262-1-BKS	Lab Control Sample	Total/NA	SOIL	8021 - BTEX	3153566_P
7723262-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8021 - BTEX	3153566_P
690437-002 S	Matrix Spike	Total/NA	SOIL	8021 - BTEX	3153566_P
690437-002 SD	Matrix Spike Duplicate	Total/NA	SOIL	8021 - BTEX	3153566_P

## **Analysis Batch: 3153625**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-9	TP2-S	Total/NA	Solid	300.0 - Chloride	3153625_P
890-246-13	TP4-S	Total/NA	Solid	300.0 - Chloride	3153625_P
890-246-19	TP3-S	Total/NA	Solid	300.0 - Chloride	3153625_P
890-246-26	HA1-S	Total/NA	Solid	300.0 - Chloride	3153625_P
7723297-1-BLK	Method Blank	Total/NA	SOIL	300.0 - Chloride	3153625_P
7723297-1-BKS	Lab Control Sample	Total/NA	SOIL	300.0 - Chloride	3153625_P
7723297-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	300.0 - Chloride	3153625_P

## Analysis Batch: 3153694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-19	TP3-S	Total/NA	Solid	8015B - Mod TPH NM	3153694_P
890-246-26	HA1-S	Total/NA	Solid	8015B - Mod TPH NM	3153694_P
7723334-1-BLK	Method Blank	Total/NA	SOIL	8015B - Mod TPH NM	3153694_P
7723334-1-BKS	Lab Control Sample	Total/NA	SOIL	8015B - Mod TPH NM	3153694_P
7723334-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015B - Mod TPH NM	3153694_P

## Analysis Batch: 3153698

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-9	TP2-S	Total/NA	Solid	8015B - Mod TPH NM	3153698_P
890-246-13	TP4-S	Total/NA	Solid	8015B - Mod TPH NM	3153698_P
7723336-1-BLK	Method Blank	Total/NA	SOIL	8015B - Mod TPH NM	3153698_P
7723336-1-BKS	Lab Control Sample	Total/NA	SOIL	8015B - Mod TPH NM	3153698_P
7723336-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015B - Mod TPH NM	3153698_P

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Client: GHD Services Inc.

Job ID: 890-246-1

Project/Site: Madison Fee COM #1/11220758

SDG: 11220758

**Subcontract** 

Prep Batch: 3153290\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bate
890-246-1	TP1-S	Total/NA	Solid	SW8015P
7723045-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***
7723045-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***
7723045-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***

## **Prep Batch: 3153317\_P**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-1	TP1-S	Total/NA	Solid	E300P	
7723049-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723049-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723049-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

#### Prep Batch: 3153495\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-1	TP1-S	Total/NA	Solid	SW5035A	
7723142-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7723142-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723142-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
690437-001 S	Matrix Spike	Total/NA	SOIL	SW5035A	
690437-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

#### Prep Batch: 3153566\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-9	TP2-S	Total/NA	Solid	SW5035A	
890-246-13	TP4-S	Total/NA	Solid	SW5035A	
890-246-19	TP3-S	Total/NA	Solid	SW5035A	
890-246-26	HA1-S	Total/NA	Solid	SW5035A	
7723262-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7723262-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723262-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
690437-002 S	Matrix Spike	Total/NA	SOIL	SW5035A	
690437-002 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

## Prep Batch: 3153625\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-9	TP2-S	Total/NA	Solid	E300P	-
890-246-13	TP4-S	Total/NA	Solid	E300P	
890-246-19	TP3-S	Total/NA	Solid	E300P	
890-246-26	HA1-S	Total/NA	Solid	E300P	
7723297-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723297-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723297-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

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Job ID: 890-246-1 Client: GHD Services Inc. SDG: 11220758 Project/Site: Madison Fee COM #1/11220758

# **Subcontract**

## Prep Batch: 3153694\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-19	TP3-S	Total/NA	Solid	SW8015P	
890-246-26	HA1-S	Total/NA	Solid	SW8015P	
7723334-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723334-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723334-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

## Prep Batch: 3153698\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-246-9	TP2-S	Total/NA	Solid	SW8015P	
890-246-13	TP4-S	Total/NA	Solid	SW8015P	
7723336-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723336-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723336-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1 SDG: 11220758

**Client Sample ID: TP1-S** 

Date Collected: 03/03/21 08:45 Date Received: 03/03/21 16:14 Lab Sample ID: 890-246-1

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	E300P		1	3153317_P	03/11/21 09:10		XM
Total/NA	Analysis	300.0 - Chloride		5	3153317	03/11/21 12:04	CHE	XM
Total/NA	Prep	SW8015P		1	3153290_P	03/10/21 17:00		XM
Total/NA	Analysis	8015B - Mod TPH NM		1	3153290	03/11/21 05:55	ARM	XM
Total/NA	Prep	SW5035A		1	3153495_P	03/11/21 17:00		XM
Total/NA	Analysis	8021 - BTEX		1	3153495	03/12/21 12:51	MNR	XM

**Client Sample ID: TP1-2** 

Date Collected: 03/03/21 08:50 Date Received: 03/03/21 16:14

Analysis

8015B NM

8015B NM

Lab Sample ID: 890-246-2 Matrix: Solid

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Batch Batch Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA Prep 8015NM Prep 03/17/21 16:14 DM XM

Client Sample ID: TP1-4 Lab Sample ID: 890-246-3

1

580 03/19/21 02:41 AM

580 03/19/21 04:09 AM

Date Collected: 03/03/21 08:55 Date Received: 03/03/21 16:14

Total/NA

Total/NA

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 03:48	AM	XM

Client Sample ID: TP1-6 Lab Sample ID: 890-246-4

Date Collected: 03/03/21 09:00 Date Received: 03/03/21 16:14

**Matrix: Solid** 

Batch Batch Dilution Batch Prepared **Prep Type** Method Number or Analyzed Type Run **Factor** Analyst Lab Total/NA XM Prep 8015NM Prep 03/17/21 16:14 DM 536

Client Sample ID: TP1-8 Lab Sample ID: 890-246-5

1

Date Collected: 03/03/21 09:05

Analysis

**Matrix: Solid** 

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 04:30	AM	XM

**Client Sample ID: TP1-10** Lab Sample ID: 890-246-6

Date Collected: 03/03/21 09:10

**Matrix: Solid** 

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 04:51	AM	XM

Job ID: 890-246-1

SDG: 11220758

**Client Sample ID: TP1-12** 

Date Collected: 03/03/21 09:30 Date Received: 03/03/21 16:14 Lab Sample ID: 890-246-7

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 05:12	AM	XM

Lab Sample ID: 890-246-8 **Client Sample ID: TP1-13** Matrix: Solid

Date Collected: 03/03/21 09:55

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 05:34	AM	XM

**Client Sample ID: TP2-S** Lab Sample ID: 890-246-9

Date Collected: 03/03/21 10:30

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	E300P	-	1	3153625_P	03/12/21 16:45		XM
Total/NA	Analysis	300.0 - Chloride		1	3153625	03/15/21 11:20	CHE	XM
Total/NA	Prep	SW8015P		1	3153698_P	03/13/21 10:00		XM
Total/NA	Analysis	8015B - Mod TPH NM		1	3153698	03/14/21 07:21	ARM	XM
Total/NA	Prep	SW5035A		1	3153566_P	03/12/21 17:00		XM
Total/NA	Analysis	8021 - BTEX		1	3153566	03/12/21 22:47	KTL	XM

**Client Sample ID: TP2-2** Lab Sample ID: 890-246-10 **Matrix: Solid** 

Date Collected: 03/03/21 10:35

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep	<del></del>		536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 05:55	AM	XM

**Client Sample ID: TP2-4** Lab Sample ID: 890-246-11

Date Collected: 03/03/21 10:40

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 06:16	AM	XM

**Client Sample ID: TP2-6** Lab Sample ID: 890-246-12

Date Collected: 03/03/21 10:45

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 06:37	AM	XM

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**Matrix: Solid** 

**Matrix: Solid** 

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Date Received: 03/03/21 16:14

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1

SDG: 11220758

**Client Sample ID: TP4-S** Lab Sample ID: 890-246-13 Date Collected: 03/03/21 11:00

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	E300P		1	3153625_P	03/12/21 16:45		XM
Total/NA	Analysis	300.0 - Chloride		10	3153625	03/12/21 21:04	CHE	XM
Total/NA	Prep	SW8015P		1	3153698_P	03/13/21 10:00		XM
Total/NA	Analysis	8015B - Mod TPH NM		1	3153698	03/14/21 07:42	ARM	XM
Total/NA	Prep	SW5035A		1	3153566_P	03/12/21 17:00		XM
Total/NA	Analysis	8021 - BTEX		1	3153566	03/12/21 23:07	KTL	XM

**Client Sample ID: TP4-2** 

Date Collected: 03/03/21 11:05 Date Received: 03/03/21 16:14 Lab Sample ID: 890-246-14

Matrix: Solid

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 8015NM Prep 03/17/21 16:14 DM XM Total/NA 8015B NM 03/19/21 07:19 AM ΧM Analysis 1

Client Sample ID: TP4-4

Date Collected: 03/03/21 11:10

Lab Sample ID: 890-246-15

Lab Sample ID: 890-246-16

Matrix: Solid

**Matrix: Solid** 

Date Received: 03/03/21 16:14

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run Lab Total/NA Prep 8015NM Prep 536 03/17/21 16:14 DM XM Total/NA 580 03/19/21 07:40 AM ΧM Analysis 8015B NM 1

Client Sample ID: TP4-6

Date Collected: 03/03/21 11:15

Date Received: 03/03/21 16:14

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 08:01	AM	XM

Client Sample ID: TP4-8

Date Collected: 03/03/21 11:30

Date Received: 03/03/21 16:14

Lab Sample ID: 890-246-17

**Matrix: Solid** 

Batch **Batch** Dilution Batch **Prepared Prep Type** Method Run Factor Number or Analyzed Type Analyst Lab  $\overline{\mathsf{XM}}$ Total/NA 8015NM Prep 536 03/17/21 16:14 DM Prep Analysis Total/NA 8015B NM 03/19/21 08:22 AM ΧM 1

**Client Sample ID: TP4-10** 

Date Collected: 03/03/21 11:40

Date Received: 03/03/21 16:14

Lab Sample ID: 890-246-18

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 08:43	AM	XM

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1 SDG: 11220758

**Client Sample ID: TP3-S** 

Date Collected: 03/03/21 11:50 Date Received: 03/03/21 16:14 Lab Sample ID: 890-246-19

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	E300P		1	3153625_P	03/12/21 16:45		XM
Total/NA	Analysis	300.0 - Chloride		5	3153625	03/12/21 21:09	CHE	XM
Total/NA	Prep	SW8015P		1	3153694_P	03/13/21 10:00		XM
Total/NA	Analysis	8015B - Mod TPH NM		1	3153694	03/14/21 07:21	ARM	XM
Total/NA	Prep	SW5035A		1	3153566_P	03/12/21 17:00		XM
Total/NA	Analysis	8021 - BTEX		1	3153566	03/12/21 23:28	KTL	XM

Lab Sample ID: 890-246-20

Date Collected: 03/03/21 11:55 **Matrix: Solid** 

Date Received: 03/03/21 16:14

**Client Sample ID: TP3-2** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 09:04	AM	XM

Lab Sample ID: 890-246-21 Client Sample ID: TP3-4 Matrix: Solid

Date Collected: 03/03/21 12:00

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM

Client Sample ID: TP3-6 Lab Sample ID: 890-246-22

580 03/19/21 09:26 AM

XM

Date Collected: 03/03/21 12:10

Analysis

8015B NM

Total/NA

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep	<del></del>		536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 09:46	AM	XM

**Client Sample ID: TP3-8** Lab Sample ID: 890-246-23

Date Collected: 03/03/21 12:20

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 10:07	AM	XM

**Client Sample ID: TP3-10** Lab Sample ID: 890-246-24

Date Collected: 03/03/21 12:45

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			536	03/17/21 16:14	DM	XM
Total/NA	Analysis	8015B NM		1	580	03/19/21 10:31	AM	XM

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**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1 SDG: 11220758

ample ID: 890-246-25

Client Sample ID: TP3-12

Date Collected: 03/03/21 13:00 Date Received: 03/03/21 16:14 Lab Sample ID: 890-246-25

Matrix: Solid

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			704	03/19/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	716	03/23/21 14:14	AM	XM

Client Sample ID: HA1-S

Date Collected: 03/03/21 13:30

Lab Sample ID: 890-246-26

Matrix: Solid

Date Collected: 03/03/21 13:30
Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	E300P		1	3153625_P	03/12/21 16:45		XM
Total/NA	Analysis	300.0 - Chloride		10	3153625	03/12/21 21:14	CHE	XM
Total/NA	Prep	SW8015P		1	3153694_P	03/13/21 10:00		XM
Total/NA	Analysis	8015B - Mod TPH NM		5	3153694	03/14/21 08:26	ARM	XM
Total/NA	Prep	SW5035A		1	3153566_P	03/12/21 17:00		XM
Total/NA	Analysis	8021 - BTEX		1	3153566	03/12/21 23:49	KTL	XM

Client Sample ID: HA1-2 Lab Sample ID: 890-246-27

Date Collected: 03/03/21 13:40

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			704	03/19/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	716	03/23/21 14:35	AM	XM

Client Sample ID: HA1-4 Lab Sample ID: 890-246-28

Date Collected: 03/03/21 13:45

Matrix: Solid

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			704	03/19/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	716	03/23/21 17:07	AM	XM

Client Sample ID: HA1-6 Lab Sample ID: 890-246-29

Date Collected: 03/03/21 13:50 Matrix: Solid

Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			704	03/19/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	716	03/23/21 17:29	AM	XM

Client Sample ID: HA1-8 Lab Sample ID: 890-246-30

Date Collected: 03/03/21 14:00 Matrix: Solid
Date Received: 03/03/21 16:14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			704	03/19/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	716	03/23/21 17:50	AM	XM

## Lab Chronicle

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1

SDG: 11220758

Client Sample ID: HA1-10 Lab Sample ID: 890-246-31

Date Collected: 03/03/21 14:15
Date Received: 03/03/21 16:14

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			704	03/19/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	716	03/23/21 18:12	AM	XM

#### **Laboratory References:**

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

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# **Accreditation/Certification Summary**

Client: GHD Services Inc. Job ID: 890-246-1 Project/Site: Madison Fee COM #1/11220758 SDG: 11220758

# **Laboratory: Eurofins Xenco, Midland**

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

Authority	Pro	gram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-20-21	06-30-21
The following analyte	s are included in this renor	t hut the laboratory is r	not certified by the governing authority	This list may include analytes for w
The following analyte the agency does not	•	t, but the laboratory is r	not certified by the governing authority.	This list may include analytes for w
0 ,	•	t, but the laboratory is r Matrix	not certified by the governing authority.  Analyte	This list may include analytes for w

# **Method Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1

SDG: 11220758

1220758	

Method	Method Description	Protocol	Laboratory
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	EPA 300.0	EPA	XM
8015B	SW846 8015B TPH ORO	SW846	XM
8021	Volatiles by 8021	SW846	XM
8015NM Prep	Microextraction	SW846	XM

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### **Laboratory References:**

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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# **Sample Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1/11220758

Job ID: 890-246-1

SDG: 11220758

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-246-1	TP1-S	Solid	03/03/21 08:45	03/03/21 16:14	
890-246-2	TP1-2	Solid	03/03/21 08:50	03/03/21 16:14	
890-246-3	TP1-4	Solid	03/03/21 08:55	03/03/21 16:14	
890-246-4	TP1-6	Solid	03/03/21 09:00	03/03/21 16:14	
890-246-5	TP1-8	Solid	03/03/21 09:05	03/03/21 16:14	
890-246-6	TP1-10	Solid	03/03/21 09:10	03/03/21 16:14	
890-246-7	TP1-12	Solid	03/03/21 09:30	03/03/21 16:14	
890-246-8	TP1-13	Solid	03/03/21 09:55	03/03/21 16:14	
890-246-9	TP2-S	Solid	03/03/21 10:30	03/03/21 16:14	
890-246-10	TP2-2	Solid	03/03/21 10:35	03/03/21 16:14	
890-246-11	TP2-4	Solid	03/03/21 10:40	03/03/21 16:14	
890-246-12	TP2-6	Solid	03/03/21 10:45	03/03/21 16:14	
890-246-13	TP4-S	Solid	03/03/21 11:00	03/03/21 16:14	
890-246-14	TP4-2	Solid	03/03/21 11:05	03/03/21 16:14	
890-246-15	TP4-4	Solid	03/03/21 11:10	03/03/21 16:14	
890-246-16	TP4-6	Solid	03/03/21 11:15	03/03/21 16:14	
890-246-17	TP4-8	Solid	03/03/21 11:30	03/03/21 16:14	
890-246-18	TP4-10	Solid	03/03/21 11:40	03/03/21 16:14	
890-246-19	TP3-S	Solid	03/03/21 11:50	03/03/21 16:14	
390-246-20	TP3-2	Solid	03/03/21 11:55	03/03/21 16:14	
890-246-21	TP3-4	Solid	03/03/21 12:00	03/03/21 16:14	
890-246-22	TP3-6	Solid	03/03/21 12:10	03/03/21 16:14	
890-246-23	TP3-8	Solid	03/03/21 12:20	03/03/21 16:14	
890-246-24	TP3-10	Solid	03/03/21 12:45	03/03/21 16:14	
890-246-25	TP3-12	Solid	03/03/21 13:00	03/03/21 16:14	
890-246-26	HA1-S	Solid	03/03/21 13:30	03/03/21 16:14	
390-246-27	HA1-2	Solid	03/03/21 13:40	03/03/21 16:14	
390-246-28	HA1-4	Solid	03/03/21 13:45	03/03/21 16:14	
390-246-29	HA1-6	Solid	03/03/21 13:50	03/03/21 16:14	
890-246-30	HA1-8	Solid	03/03/21 14:00	03/03/21 16:14	
890-246-31	HA1-10	Solid	03/03/21 14:15	03/03/21 16:14	

Eurofins Xenco, Carlsbad

Released to Imaging: 9/13/2022 2:25:32 PM

CHAIN OF CUSTODY

Notice: Signatur is di	흥	Kelinquished by:	Relinquished by Sampler:		TAT Starts D	3 Day EMERGENCY	2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT	Turnaroun	10	0	8 TP1-13	7 TP1-12	6 TP1-10	5 TP1-8	4 TP1-6	3 TP1-4	2 TP1-2	1 TP1-S	No.		Samplers's Name Zach Comino	Project Contact: Beck	glenn quinney@ghd.com		Company Address: 21	Company Name / Branch: GHD/Midland	Client / Repo		Service Center -	Dallas Texas (214-902-0300)	Stafford, Texas (281-240-4200)	Setting the Standard since 1990
is document and relinquishment of samples constitutes a valid purchase order from		0	John.	SAMPLE	TAT Starts Day received by Lab, if received by 5:00 pm	ENCY	ENCY Contract TAT	RGENCY7 Day TAT	Х 5 Дау ТАТ	Turnaround Time ( Business days)											Field ID / Point of Collection		Comino	Project Contact: Becky Haskell / Glenn Quinney			2135 S . Loop 250 West Midland TX	ੜ 	Client / Reporting Information		Service Center - San Antonio, Texas (210-509-3334)	902-0300)	31-240-4200)	tandard since 1990
utes a valid purchase	Date Time:	Date Time:	DSC3201	CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURT	5:00 pm		АТ														Sample Depth			<del>-</del> -1	7917 d.com									
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client company to XENCO Laborator	y:	, -	Cut	TIME SAME	Report MDLs and J values.	TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	Data D			6	1				~	1	\ \ \	# of bottles				James Ne	Eddy County, New Mexico		Madison fee COM #1 / 11220758	Project Information		CWWW			Page
	Ale oil.		8	LES CHAN	values.		ms)	Forms		Data Deliverable Information								-			HCI NaOH/Zn	N			illeuy	xico		COM #1.	ă		www.xenco.com			-
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s, subcontra	Custody Seal # Preserved where applicable Cooler Sold Cooler Cool	4	Relinquished By:	SION, INCLU			UST / RG -411	TRRP Level IV	Level IV (Full Data Pkg /raw data)								-		-	_	H2SO4 NaOH	powiesarc												
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	fully executed client con					Ğ			5	2						===			-		Field Comments	1	ww= Waste Water	0 = 01	SL = Sludge OW =Ocean/Sea Water w/ = Wine	P = Product SW = Surface water	DW = Drinking Water	= Soil/Sed/Solid		Matrix Codes		00)	-8526)	
1	N.M. S. executed client contract				0.0				OF T						i I	ıΡ	age	e 42	2 pf	57			Vater		iea Water	water	y Water	solid Water		S			3/2	25/20

Setting the Standard since 1990

Stafford, Texas (281-240-4200) (214-902-0300)

Norcross, Georgia (770-449-8800) Odessa, Texas (432-563-1800)

Lakeland, Florida (863-646-8526)

3/25/2021

Dallas Texas (214-902-0300)			Z	orcross	, Geo	Norcross, Georgia (770-449-8800)	3800)	Tampa, Florida (813-620-2000)
Service Center - San Antonio, Texas (210-509-3334)		www.xenco.com	×e	Xenco Quote#	*		Xenco Job #	
					Ą	Analytical Information	tion	Matrix Codes
Client / Reporting Information		Project Information		) —				
Company Name / Branch: GHD/Midland	Project Name/Number:	e/Number: Madison fee COM #1 / 11220758		MR		kg,		S = Soil/Sed/Solid
Company Address: 2135 S . Loop 250 West Midland TX	Project Location:	•		RO &		00mg/		GW =Ground water  DW = Drinking Water  P = Product
Email: becky.haskell@ghd.com Phone No: (432)250-7917  glenn quinney@ghd.com Zach.comino@ghd.com	Invoice To:	EOG / James Kennedy		GRO, L		TPH 1		SW = Surface water SL = Sludge OW =Ocean/Sea Water
Project Contact: Becky Haskell / Glenn Quinney	PO Number No	NA .		lod (		g/kg		W = Wipe
Samplers's Name Zach Comino						0m		ww= Waste Water
	Collection	Number of	preserved bottles			e 60		A = Air
No. Field ID / Point of Collection S	Sample Depth Date	Time Matrix bottles HCI NaOH/Zn Acctate	HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	TPH By BTEX 8	Chloride	Hold un (Chlorid BTEX E		Field Comments
1 TP4-S		8_	-	×	×			57
2 TP4-2	3/3/2021	11:05 5 (		-		R		of 5
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Next Day EMERGENCY 7 Day TAT		Level III Std QC+ Forms	TRRP Level IV			3	whit pre	
2 Day EMERGENCY Contract TAT		Level 3 (CLP Forms)	UST / RG -411					
3 Day EMERGENCY		TRRP Checklist						No SSOW / Birect Bill to EOG
TAT Starts Day received by Lab, if received by 5:00 pm	3	d J value						0/1
SAMPLE CUSIODY	Date Time:					Date Time:	Received By:	ging
Relinquished by:	Date Time: (	Received By:	Relinquished By:		Date	Date Time:	Received By:	
Relinquished by:	Date Time:	Received By:	Custody Seal #	Pre	served	Preserved where applicable		Thermo. Corr. Factor
Notice. Signatur 'vis document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laborator	purchase order from c		1 ils affiliales, subcontractors and assigns XENCO's standard terms and continions of service	XENCOS	standar	d terms and condi		uness previously regional

Released to Imaging:

9/13/2022

CHAIN OF CUSTODY

3/25/2021

Company Name / Branch: GHD/Midland lotice: Signatur NO. Samplers's Name Zach Comino Email: becky.haskell@ghd.com glenn.quinney@ghd.com Company Address: 2135 S . Loop 250 West Midland TX Project Contact: Becky Haskell / Glenn Quinney Relinquished by Sampler Relinquished by: Stafford, Texas (281-240-4200) Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) Setting the Standard since 1990 HA1-4 3 Day EMERGENCY Same Day TAT HA1-6 TAT Starts Day received by Lab, if received by 5:00 pm 2 Day EMERGENCY HA1-10 HA1-8 HA1-2 HA1-S **Next Day EMERGENCY** Client / Reporting Information Turnaround Time (Business days) s document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laborator Field ID / Point of Collection \_\_\_7 Day TAT X 5 Day TAT om.larson@ghd.com SAMPLE CUSTODY MUST Contract TAT Phone No: (432)250-7917 Zach.comino@ghd.com Date Time: Date Time: Date Time: Sample Depth PO Number: NA Project Location: Project Name/Number: 3/3/2021 3/3/2021 3/3/2021 Date Eddy County, New Mexico
EOG / James Kennedy BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Received By: Received By: Level 3 (CLP Forms) Report MDLs and J values. Level III Std QC+ Forms 14:15 14.00 13.45 13:40 1 20 P 13:50 TRRP Checklist Level II Std QC Project Information Madison fee COM #1 / 11220758 S Matrix Ś Data Deliverable Information www.xenco.com # of Ť HCI NaOH/Zn its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negio á HNO3 Custody Seal # UST / RG -411 H2SQ4 TRRP Level IV Level IV (Full Data Pkg /raw data) uished By NaHSO4 меон W 4 × Norcross, Georgia (770-449-8800) Odessa, Texas (432-563-1800) M TPH By 8015 Mod (GRO, DRO & MRO) Preserved where applicable A × BTEX 8021 B Date Time: Date Time: 161 ₩, Chloride 600 Hold unless previous sample is above (Chloride 600mg/kg, TPH 100mg/kg, BTEX Benzene 10mg/kg, BTEX 50 previous Xenco Job # Received By: Received By: test Sounde No SSOW / Direct Bill to EOG Lakeland, Florida (863-646-8526) Tampa, Florida (813-620-2000) びい Field Comments DW = Drinking Water S = Soil/Sed/Solid GW =Ground Water ww= Waste Water O = Oil W = Wipe SL = Sludge OW =Ocean/Sea Water SW = Surface water P = Product Matrix Codes 2

Page 45 of 57

Released to Imaging:

9/13/2022

CHAIN OF CUSTODY

Notice: Signaty Ö Samplers's Name Zach Comino Project Contact: Becky Haskell / Glenn Quinney Email: becky haskell@ghd.com glenn quinney@ghd.com Company Address: 2135 S . Loop 250 West Midland TX GHD/Midland Company Name / Branch: 6 Relinquished by Sampler: Relinquished by: Relinquished by: Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) Stafford, Texas (281-240-4200) Setting the Standard since 1990 TP1-2 TP1-12 TP1-6 TP1-4 TP1-S TAT Starts Day received by Lab, if received by 5:00 pm Same Day TAT 3 Day EMERGENCY TP1-13 TP1-10 TP1-8 2 Day EMERGENCY Client / Reporting Information **Next Day EMERGENCY** Turnaround Time ( Business days) s document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laborator Field ID / Point of Collection 7 Day TAT X 5 Day TAT tom.larson@ghd.com SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVER Contract TAT Zach.comino@ghd.com Phone No: (432)250-7917 Date Time: 7 Date Time: Date Time: Sample Depth PO Number: NA Invoice To: Project Name/Number: 3/3/2021 3/3/2021 3/3/2021 Received By: Date Eddy County, New Mexico
EOG / James Kennedy Report MDLs and J values. Received By: 9.55 9.30 9:05 8:55 8:45 TRRP Checklist Level 3 (CLP Forms) Level III Std QC+ Forms Project Information Level II Std QC Madison fee COM #1 / 11220758 **V** Data Deliverable Information www xenco com # of HCI NaOH/Zn 'its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously cetate HNO3 Relinquished By Relinquished By: Custody Seal # Level IV (Full Data Pkg /raw data) 12504 UST / RG -411 TRRP Level IV NaOH NaHSO4 MEOH NONE Norcross, Georgia (770-449-8800) Odessa, Texas (432-563-1800) TPH By 8015 Mod (GRO, DRO & MRO) Preserved where applicable BTEX 8021 B × Date Time: Chloride 600 × Analytical Information Hold unless previous sample is above X (Chloride 600mg/kg, TPH 100mg/kg, BTEX Benzene 10mg/kg, BTEX 50 Duly Received By: Received By Xenco Job +65+ りたというとい 890-246 No SSOW / Direct Bill to EOG Lakeland, Florida (863-646-8526) Tampa, Florida (813-620-2000) next Chain 5.2 Cooler Temp. Sample of Custody Field Comments r a fully executed client contract S = Soil/Sed/Solid GW =Ground Water DW = Drinking Water OW =Ocean/Sea Water W = Wipe O = Oil SL = Sludge P = Product SW = Surface water Thermo. Corr. Factor WW= Waste Water Matrix Codes LOUNING 20 ıPage 46 φf 5|7 3/25/2021

Odessa, Texas (432-563-1800)

7 a fully exec	ns of service unless previously negic	is affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless	VCO's sta	signs XEI	and as	Custody Seal #	Custoc es, subc	its affilial		O Labora	to XENC	Received By: 5 ent company to	er from clies	Date Time:	r: Pate Time: Received By: 5 document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laborator	relinquishment of sa	g by		6 on
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9/1									es.	J valu	)Ls and	Report MDLs and J values.	71	3	ceived by 5:00 p	ed by Lab, if re	TAT Starts Day received by Lab, if received by 5:00 pm	TA	1.1
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022						UST / RG -411	UST /	$ \Box$		Level 3 (CLP Forms)	13 (CLP	Leve	 		Contract TAT		2 Day EMERGENCY	21	
	was by Chious som	3				TRRP Level IV	TRRP	П	ms	Level III Std QC+ Forms	III Std	Leve			7 Day TAT		Next Day EMERGENCY	² □	
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Page 73 of 219 Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) Stafford, Texas (281-240-4200) Setting the Standard since 1990 ABORATORIES HAIN OF CUSTODY www.xenco.com Odessa, Texas (432-563-1800) Norcross, Georgia (770-449-8800) Xenco Job #

8 Samplers's Name Zach Comino Company Address: 2135 S . Loop 250 West Midland TX GHD/Midland Email: becky haskell@ghd.com glenn.quinney@ghd.com Company Name / Branch 0 roject Contact: Becky Haskell / Glenn Quinney Relinquished by: Relinquished by Sampler: TP4-8 Same Day TAT TP4-6 TP4-4 TP4-2 TP4-S TP4-10 TAT Starts Day received by Lab, if received by 5:00 pm 3 Day EMERGENCY 2 Day EMERGENCY **Next Day EMERGENCY** Client / Reporting Information around Time (Business days) vis document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laborator Field ID / Point of Collection 7 Day TAT × tom larson@ghd.com Contract TAT Phone No: (432)250-7917 Zach.comino@ghd.com 5 Day TAT Date Time: Date Time: Date Time: Sample Depth Project Name/Number: Project Location: Collection UMENTED 3/3/2021 3/3/2021 3/3/2021 Date Eddy County, New Mexico EOG / James Kennedy BELOW EACH TIME SAMPLES CHANGE Received By: Report MDLs and J values. Level III Std QC+ Forms Time 11:10 11:40 11:05 11:00 11:30 11:15 Level 3 (CLP Forms) TRRP Checklist Level II Std QC Project Information Madison fee COM #1 / 11220758 Matrix V 5 V 4 Data Deliverable Infor bottles # of HCI NaOH/Zn its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service Acetate POSSESSION, INCLUDING COURIER DELIVERY HNO3 Relinquished By: Custody Seal # 12504 UST / RG -411 TRRP Level IV Level IV (Full Data Pkg /raw data) аОН NaHSO4 МЕОН TPH By 8015 Mod (GRO, DRO & MRO) Preserved where applicable BTEX 8021 B × Date Time: Date Time: × Chloride 600 Analytical Information Hold unless previous sample is above 8 (Chloride 600mg/kg, TPH 100mg/kg, BTEX Benzene 10mg/kg, BTEX 50 Received By: Received By: test hext previous No 330W / Direct Bill to EUG Lakeland, Florida (863-646-8526) Tampa, Florida (813-620-2000) Field Comments Ö DW = Drinking Water S = Soil/Sed/Solid GW =Ground Water 0 = 01 WW= Waste Water W = Wipe OW =Ocean/Sea Water SL = Sludge SW = Surface water P = Product hermo. Corr. Matrix Codes Ó 20 Page 48 of 57 3/25/2021

Setting Stafford

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Stafford, Texas (281-240-4200) Setting the Standard since 1990

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Odessa, Texas (432-563-1800)

Lakeland, Florida (863-646-8526

3/25/2021

lotice: Signatur S. Company Address: 2135 S . Loop 250 West Midland TX 6 Company Name / Branch: roject Contact: Becky Haskell / Glenn Quinney amplers's Name Zach Comino Relinquished by: Relinquished by Sampler Relinquished by: Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) HA1-8 HA1-2 HA1-S 3 Day EMERGENCY Same Day TAT HA1-4 becky haskell@ghd.com glenn.quinney@ghd.com TAT Starts Day received by Lab, if received by 5:00 pm HA1-10 HA1-6 2 Day EMERGENCY **Next Day EMERGENCY** Client / Reporting Information s document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laborator ound Time ( Business days) Field ID / Point of Collection X 5 Day TAT ☐7 Day TAT tom.larson@ghd.com Contract TAT Phone No: (432)250-7917 Zach.comino@ghd.com CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Date Time: Date Time: Date Time: Sample Depth Invoice To: 3/3/2021 3/3/2021 3/3/2021 Date Received By: NA A Report MDLs and J values. Received By: 14:15 13:30 14:00 13.50 13:45 Project Information Level 3 (CLP Forms) Level III Std QC+ Forms Level II Std QC TRRP Checklist R Madison fee COM #1 / 11220758 5 Ś Data Deliverable Information www xenco.com # of ۴ HÇI NaOH/Zn Acetate its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service HNO3 Relinquished By: Custody Seal # Relinquished By: UST / RG -411 H2SO4 TRRP Level IV Level IV (Full Data Pkg /raw data) NaOH laHSO4 ИЕОН W 4 × Norcross, Georgia (770-449-8800) TPH By 8015 Mod (GRO, DRO & MRO) A BTEX 8021 B Preserved M Date Time: Date Time: 164 \* Chloride 600 Analytical Information Hold unless previous sample is above (Chloride 600mg/kg, TPH 100mg/kg, BTEX Benzene 10mg/kg, BTEX 50 Day. previous Xenco Job # Received By: Received By: たさ Samole No SSOW / Direct Bill to EOG Tampa, Florida (813-620-2000) びい Field Comments O. r a fully executed client contract OW =Ocean/Sea Water
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Setting the Standard since 1990 ABORATORIES

Stafford, Texas (281-240-4200)

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Company Name / Branch: GHD/Midland Company Address: lotice: Signaty S O Project Contact: Becky Haskell / Glenn Quinney 5 Relinquished by Sampler Relinquished by: Relinquished by: Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) 3 Day EMERGENCY Same Day TAT TP1-8 TP1-6 TP1-4 TP1-2 TP1-S becky haskell@ghd.com glenn quinney@ghd.com TAT Starts Day received by Lab, If received by 5:00 pm 2 Day EMERGENCY TP1-13 TP1-12 Next Day EMERGENCY TP1-10 Client / Reporting Information Furnaround Time (Business days) is document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laborato 2135 S . Loop 250 West Midland TX Field ID / Point of Collection X 5 Day TAT \_\_\_|7 Day TAT tom.larson@ghd.com Contract TAT Phone No: (432)250-7917
Zach.comino@ghd.com Date Time Date Time: Sample Depth BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Time: Received By: // I | Relinquished By: PO Number: NA Project Location: Project Name/Number: Invoice To: 3/3/2021 3/3/2021 3/3/2021 Date Eddy County, New Mexico EOG / James Kennedy Report MDLs and J values. Received By: Time 9:55 9:30 9.10 9.05 8:45 9:00 8:55 8:50 Project Information TRRP Checklist Level 3 (CLP Forms) Level II Std QC Level III Std QC+ Forms ed By: Madison fee COM #1 / 11220758 Data Deliverable Information www xenco com # of HCI NaOH/Zn its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service HNO3 Custody Seal # Relinquished By UST / RG -411 Level IV (Full Data Pkg /raw data) TRRP Level IV H2SO4 NaHSO4 MEOH Odessa, Texas (432-563-1800) Norcross, Georgia (770-449-8800) TPH By 8015 Mod (GRO, DRO & MRO) Preserved where applicable BTEX 8021 B Date Time: Chloride 600 Analytical Information Hold unless previous sample is above X (Chloride 600mg/kg, TPH 100mg/kg, BTEX Benzene 10mg/kg, BTEX 50 Duly Received By: ved By: test next 890-246 Chain of Custody OK いらいい No SSOW / Direct Bill to EOG Tampa, Florida (813-620-2000) Lakeland, Florida (863-646-8526 5.2 Sam Scample ield Comments r a fully executed client contract DW = Drinking Water OW =Ocean/Sea Water S = Soil/Sed/Solid GW =Ground Water WW= Waste Water 0 = 0 W = Wipe SL = Sludge SW = Surface water P = Product hermo, Corr. Factor Matrix Codes LOO-MAN S

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Client / Reporting Information

Company Name / Branch:

GHD/Midland

Company Address: 2135 S . Loop 250 West Midland TX

Service Center - San Antonio, Texas (210-509-3334)

Dallas Texas (214-902-0300)

Samplers's Name Zach Comino

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Field ID / Point of Collection

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tom.larson@ghd.c Zach.comino@ Phone No: (432)2

Email: becky haskell@ghd.com glenn.quinney@ghd.com

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SW = Surface water

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Odessa, Texas (432-563-1800)

Lakeland, Florida (863-646-8526)

3/25/2021

Company Name / Branch: GHD/Midland Votice: Signatu Email: becky haskell@ghd.com glenn.guinney@ghd.com Company Address: 2135 S . Loop 250 West Midland TX 8 Samplers's Name Zach Comino Project Contact: Becky Haskell / Glenn Quinney 5 3 Day EMERGENCY Relinquished by Sampler: Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) TP4-S Same Day TAT TP4-8 TP4-4 TP4-2 TP4-6 TAT Starts Day received by Lab, if received by 5:00 pm 2 Day EMERGENCY Next Day EMERGENCY TP4-10 Client / Reporting Information Turnaround Time ( Business days) vis document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laborator Field ID / Point of Collection × \_\_\_\_7 Day TAT SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Contract TAT 5 Day TAT Phone No: (432)250-7917
Zach.comino@ghd.com larson@ghd.com Date Time: Date Time: Date Time Sample Depth Project Location: Project Name/Number: 3/3/2021 3/3/2021 3/3/2021 Date ₫ Eddy County, New Mexico EOG / James Kennedy Received By Report MDLs and J values. Time 11:40 11:10 11:05 11:00 TRRP Checklist Level 3 (CLP Forms) Project Information Level III Std QC+ Forms Level II Std QC Madison fee COM #1 / 11220758 Ŋ 5 W 4 Data Deliverable Information www xenco com # of HCI NaOH/Zn Acetate its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service HNO3 Relinquished By: Custody Seal # Level IV (Full Data Pkg /raw data) 12504 UST / RG -411 TRRP Level IV NaOH NaHSO4 иЕОН NONE Norcross, Georgia (770-449-8800) TPH By 8015 Mod (GRO, DRO & MRO) BTEX 8021 B Preserved where applicable × Date Date Time: Chloride 600 × Hold unless previous sample is above (Chloride 600mg/kg, TPH 100mg/kg, J BTEX Benzene 10mg/kg, BTEX 50 Received By: Received By: Xenco Job # test next previous unless previously negiotia No 330W / Direct Bill to EOC Tampa, Florida (813-620-2000) 15°21 Sample Field Comments ö SL = Sludge OW =Ocean/Sea Water DW = Drinking Water SW = Surface water P = Product S = Soil/Sed/Solid GW =Ground Water WW= Waste Water W = Wipe 0 # 0 Matrix Codes Ó Corr. 5 Page 54 of 57 Released to Imaging:

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Eurofins Xenco, Carlsbad

1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199

# **Chain of Custody Record**

💸 eurofins

Environment Testing America

Custody Seals Infact:   Custody Seal No	telinquished by:	telinquished by	telinquished by Coc (NA 3-17-2)	impty Kit Relinquished by:	Deliverable Requested I II III IV Other (specify)	ossible nazaro Identification Inconfirmed	tote: since aboratory accreditations are subject to change, Eutroms xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment naintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. LC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	leks. Since leberatory correditations are subject to show a Funding Versal				IA1-6 (890-246-29)		Sample Identification - Client ID (Lab ID)	ile	Madison Fee COM #1/11220758	mail	hone:  32-704-5440(Tel)	itate, Zip: TX, 79701	ity Midland	211 W Florida Ave	Eurofins Xenco	Shipping/Receiving	Client Information (Sub Contract Lab)
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	Company	Company	Company			n 1 month)  Months	This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently ztions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco							Special Instructions/Note.		Z other (specify)	{ < ⊂ ·	R Na2S2O3 S H2SO4	P Na2O4S Q - Na2SO3	M Hexane N - None O AsNaO2	- 1			

# **Login Sample Receipt Checklist**

Client: GHD Services Inc.

Job Number: 890-246-1 SDG Number: 11220758

List Source: Eurofins Carlsbad

Login Number: 246 List Number: 1 Creator: Clifton, Cloe

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

Released to Imaging: 9/13/2022 2:25:32 PM



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1575-1

Laboratory Sample Delivery Group: 11220758 Client Project/Site: Madison Fee COM #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

Chad a. Beethold

Authorized for release by: 11/18/2021 10:19:39 AM Chad Bechtold, Project Manager (813)690-3563 chad.bechtold@eurofinset.com

Designee for

Debbie Simmons, Project Manager (832)986-6768

debbie.simmons@eurofinset.com

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

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



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Client: GHD Services Inc.

Laboratory Job ID: 890-1575-1

Project/Site: Madison Fee COM #1

SDG: 11220758

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# **Definitions/Glossary**

Client: GHD Services Inc. Job ID: 890-1575-1 Project/Site: Madison Fee COM #1

SDG: 11220758

#### **Qualifiers**

GC	VOA
Qual	ifier

<b>4</b>	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

Qualifier Description

#### GC Semi VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### HPLC/IC

#### Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

## **Glossary**

**EDL** 

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

Not Detected at the reporting limit (or MDL or EDL if shown) ND

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)

Relative Percent Difference, a measure of the relative difference between two points **RPD** 

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

Too Numerous To Count **TNTC** 

#### **Case Narrative**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1 SDG: 11220758

Job ID: 890-1575-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1575-1

#### Receipt

The samples were received on 11/15/2021 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 25.2°C

#### **GC VOA**

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

#### GC Semi VOA

Method 8015MOD NM: The method blank for preparation batch 880-12468 and analytical batch 880-12466 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH-1 (890-1575-1), SW-1 (890-1575-4), BH-5 (890-1575-7), BH-6 (890-1575-9), BH-7 (890-1575-10), SW-4 (890-1575-13) and (MB 880-12468/1-A). Evidence of matrix interference is not obvious.

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

#### HPLC/IC

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

Job ID: 890-1575-1

Client: GHD Services Inc. Project/Site: Madison Fee COM #1 SDG: 11220758

Client Sample ID: BH-1 Lab Sample ID: 890-1575-1

Date Collected: 11/15/21 13:00 Matrix: Solid Date Received: 11/15/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		11/16/21 09:53	11/17/21 01:34	
Toluene	0.000520	J	0.00201	0.000459	mg/Kg		11/16/21 09:53	11/17/21 01:34	
Ethylbenzene	< 0.00201	U	0.00201	0.000568	mg/Kg		11/16/21 09:53	11/17/21 01:34	•
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		11/16/21 09:53	11/17/21 01:34	1
o-Xylene	< 0.00201	U	0.00201	0.000346	mg/Kg		11/16/21 09:53	11/17/21 01:34	•
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		11/16/21 09:53	11/17/21 01:34	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	129		70 - 130				11/16/21 09:53	11/17/21 01:34	
1,4-Difluorobenzene (Surr)	77		70 - 130				11/16/21 09:53	11/17/21 01:34	•
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg			11/17/21 16:31	-
Analyte Total TPH	Result 180	Qualifier		MDL 15.0	Unit mg/Kg	D	Prepared	Analyzed 11/17/21 13:26	Dil Fa
Total TPH	180		50.0	15.0	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diesel	•		• •			_			
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	
Gasoline Range Organics									
(GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 16:29	
(GRO)-C6-C10  Diesel Range Organics (Over	<50.0 <b>116</b>		50.0 50.0		mg/Kg mg/Kg			11/16/21 16:29 11/16/21 16:29	
(GRO)-C6-C10		В		15.0			11/16/21 14:18		
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over	116	В	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 16:29	
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)	116 63.5	В	50.0	15.0	mg/Kg		11/16/21 14:18 11/16/21 14:18	11/16/21 16:29 11/16/21 16:29	Dil Fac
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)  Surrogate	116 63.5 <u>%Recovery</u> 130	В	50.0 50.0	15.0	mg/Kg		11/16/21 14:18 11/16/21 14:18 <b>Prepared</b> 11/16/21 14:18	11/16/21 16:29 11/16/21 16:29 Analyzed	Dil Fa
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl  Method: 300.0 - Anions, Ion	%Recovery 130 146 Chromatogra	B  Qualifier  S1+  sphy - Solu	50.0 50.0 Limits 70 - 130 70 - 130	15.0 15.0	mg/Kg		11/16/21 14:18 11/16/21 14:18 Prepared 11/16/21 14:18 11/16/21 14:18	11/16/21 16:29 11/16/21 16:29 Analyzed 11/16/21 16:29 11/16/21 16:29	Dil Fac
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane o-Terphenyl	%Recovery 130 146 Chromatogra	B B Qualifier S1+	50.0 50.0 Limits 70 - 130 70 - 130	15.0 15.0 <b>MDL</b>	mg/Kg	<u>D</u>	11/16/21 14:18 11/16/21 14:18 <b>Prepared</b> 11/16/21 14:18	11/16/21 16:29 11/16/21 16:29 <b>Analyzed</b> 11/16/21 16:29	Dil Fac

Lab Sample ID: 890-1575-2 **Client Sample ID: BH-2** Date Collected: 11/15/21 13:05 **Matrix: Solid** 

Date Received: 11/15/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		11/16/21 09:53	11/17/21 01:55	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		11/16/21 09:53	11/17/21 01:55	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		11/16/21 09:53	11/17/21 01:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 09:53	11/17/21 01:55	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		11/16/21 09:53	11/17/21 01:55	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 09:53	11/17/21 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				11/16/21 09:53	11/17/21 01:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/16/21 09:53	11/17/21 01:55	1

**Method: Total BTEX - Total BTEX Calculation** 

Job ID: 890-1575-1

Client: GHD Services Inc. Project/Site: Madison Fee COM #1 SDG: 11220758

Client Sample ID: BH-2 Lab Sample ID: 890-1575-2 Date Collected: 11/15/21 13:05 **Matrix: Solid** 

Date Received: 11/15/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			11/17/21 16:31	1
Method: 8015 NM - Diesel F	Range Organics	s (DRO) (G	iC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.8		49.9	15.0	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diese	l Range Organi	cs (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		11/16/21 14:18	11/16/21 17:35	1

Surrogate	%Recovery	Qualifier	Limits		Prepared 14/10/2014 14/10/20	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	19.7	JB	49.9	15.0 mg/Kg	11/16/21 14:18	11/16/21 17:35	1
Diesel Range Organics (Over C10-C28)	51.1	В	49.9	15.0 mg/Kg	11/16/21 14:18	11/16/21 17:35	1

1-Chlorooctane	110	70 - 130	11/16/21 14:18	11/16/21 17:35	1
o-Terphenyl	129	70 - 130	11/16/21 14:18	11/16/21 17:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac Chloride 11.5 4.95 0.850 mg/Kg 11/16/21 19:23

Client Sample ID: BH-3 Lab Sample ID: 890-1575-3 Date Collected: 11/15/21 13:10 **Matrix: Solid** 

Date Received: 11/15/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		11/16/21 09:53	11/17/21 02:15	1
Toluene	< 0.00199	U	0.00199	0.000453	mg/Kg		11/16/21 09:53	11/17/21 02:15	1
Ethylbenzene	< 0.00199	U	0.00199	0.000562	mg/Kg		11/16/21 09:53	11/17/21 02:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		11/16/21 09:53	11/17/21 02:15	1
o-Xylene	< 0.00199	U	0.00199	0.000342	mg/Kg		11/16/21 09:53	11/17/21 02:15	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		11/16/21 09:53	11/17/21 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/16/21 09:53	11/17/21 02:15	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/16/21 09:53	11/17/21 02:15	1
Method: Total BTEX - Total	I BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			11/17/21 16:31	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.6	J	49.8	14.9	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diese	I Range Organ	ics (DRO)	(GC)						
Analyte		Qualifier	` / RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

11/16/21 14:18 11/16/21 17:57

49.8

14.9 mg/Kg

<49.8 U

Gasoline Range Organics

(GRO)-C6-C10

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1

SDG: 11220758

Client Sample ID: BH-3

Client: GHD Services Inc.

Date Collected: 11/15/21 13:10 Date Received: 11/15/21 16:00

Lab Sample ID: 890-1575-3

**Matrix: Solid** 

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC) (Conti	nued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	38.6	JB	49.8	14.9	mg/Kg		11/16/21 14:18	11/16/21 17:57	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		11/16/21 14:18	11/16/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/16/21 14:18	11/16/21 17:57	1
o-Terphenyl	127		70 - 130				11/16/21 14:18	11/16/21 17:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 5.01 Chloride 8.22 0.860 mg/Kg 11/16/21 19:27

Client Sample ID: SW-1 Lab Sample ID: 890-1575-4

Date Collected: 11/15/21 13:15 **Matrix: Solid** Date Received: 11/15/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		11/16/21 09:53	11/17/21 02:36	1
Toluene	0.000672	J	0.00200	0.000455	mg/Kg		11/16/21 09:53	11/17/21 02:36	1
Ethylbenzene	< 0.00200	U	0.00200	0.000564	mg/Kg		11/16/21 09:53	11/17/21 02:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		11/16/21 09:53	11/17/21 02:36	1
o-Xylene	0.000761	J	0.00200	0.000343	mg/Kg		11/16/21 09:53	11/17/21 02:36	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		11/16/21 09:53	11/17/21 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/16/21 09:53	11/17/21 02:36	1
							44/46/04 00:50	11/17/21 02:36	1
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total	88 BTEX Calcula	tion	70 - 130				11/16/21 09:53	11/11/21 02:30	,
Method: Total BTEX - Total	BTEX Calcula			MDI	11-14				Dil 5
Method: Total BTEX - Total Analyte	BTEX Calcula Result	Qualifier	70 - 130 RL 0.00399	MDL 0.00101		<u>D</u>	Prepared	Analyzed 11/17/21 16:31	Dil Fac
Method: Total BTEX - Total	BTEX Calcula	Qualifier	RL	MDL 0.00101	Unit mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total Analyte	BTEX Calcula Result 0.00143	Qualifier J	RL 0.00399			<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX	BTEX Calcula Result 0.00143  Range Organic	Qualifier J	RL 0.00399	0.00101		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I	BTEX Calcula Result 0.00143  Range Organic	Qualifier J s (DRO) (0	RL 0.00399	0.00101	mg/Kg Unit	_ =	Prepared	Analyzed 11/17/21 16:31	1
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte Total TPH	Range Organic Result 175	Qualifier  J  s (DRO) (O  Qualifier	RL 0.00399  GC)  RL 50.0	0.00101 <b>MDL</b>	mg/Kg Unit	_ =	Prepared	Analyzed 11/17/21 16:31 Analyzed	1
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte Total TPH Method: 8015B NM - Diese	Range Organic Result 175 I Range Organ	Qualifier J s (DRO) (C Qualifier ics (DRO)	RL 0.00399  SC)  RL 50.0	0.00101 MDL 15.0	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 11/17/21 16:31  Analyzed 11/17/21 13:26	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte Total TPH	Range Organic Result 175 I Range Organic Result	Qualifier  J  S (DRO) (O  Qualifier  ics (DRO)  Qualifier	RL 0.00399 GC) RL 50.0	0.00101  MDL  15.0  MDL	mg/Kg  Unit mg/Kg  Unit	_ =	Prepared Prepared	Analyzed 11/17/21 16:31  Analyzed 11/17/21 13:26  Analyzed	1
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte Total TPH Method: 8015B NM - Diese	Range Organic Result 175 I Range Organ	Qualifier  J  S (DRO) (O  Qualifier  ics (DRO)  Qualifier	RL 0.00399  SC)  RL 50.0	0.00101 MDL 15.0	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	Analyzed 11/17/21 16:31  Analyzed 11/17/21 13:26	Dil Fac

C10-C28) Oll Range Organics (Over C28-C36)	62.5	В	50.0	15.0 mg/Kg	11/16/21 14:18	11/16/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130		11/16/21 14:18	11/16/21 18:19	1
o-Terphenyl	142	S1+	70 - 130		11/16/21 14:18	11/16/21 18:19	1
_							

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 4.98 11/16/21 19:32 Chloride 158 0.855 mg/Kg

Date Received: 11/15/21 16:00

Analyte

Chloride

Job ID: 890-1575-1 SDG: 11220758

Client: GHD Services Inc. Project/Site: Madison Fee COM #1

**Client Sample ID: SW-2** Lab Sample ID: 890-1575-5 Date Collected: 11/15/21 13:30 **Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		11/16/21 09:53	11/17/21 02:56	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		11/16/21 09:53	11/17/21 02:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		11/16/21 09:53	11/17/21 02:56	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	0.00101	mg/Kg		11/16/21 09:53	11/17/21 02:56	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		11/16/21 09:53	11/17/21 02:56	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		11/16/21 09:53	11/17/21 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				11/16/21 09:53	11/17/21 02:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/16/21 09:53	11/17/21 02:56	1
Method: Total BTEX - Total B	ΓEX Calcula	tion							
Analyte	Pocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	itesuit	Quanner	116		••	_	opa.oa	7a.y 20a	
Total BTEX	<0.00399		0.00399	0.00101		_ =	11000100	11/17/21 16:31	1
Total BTEX	<0.00399	U	0.00399			_ =			1
	<0.00399	U	0.00399		mg/Kg		Prepared		
Total BTEX  Method: 8015 NM - Diesel Rar	<0.00399	U (ORO) (O	0.00399 GC)	0.00101 <b>MDL</b>	mg/Kg		<u> </u>	11/17/21 16:31	Dil Fac
Total BTEX  Method: 8015 NM - Diesel Rai Analyte	<0.00399 nge Organic Result 54.7	s (DRO) (C	0.00399 BC) RL 49.8	0.00101 <b>MDL</b>	mg/Kg Unit		<u> </u>	11/17/21 16:31  Analyzed	Dil Fac
Total BTEX  Method: 8015 NM - Diesel Rai Analyte  Total TPH	<0.00399  nge Organic Result 54.7  ange Organ	s (DRO) (C	0.00399 BC) RL 49.8	0.00101 <b>MDL</b>	mg/Kg  Unit mg/Kg		<u> </u>	11/17/21 16:31  Analyzed	Dil Fac
Total BTEX  Method: 8015 NM - Diesel Ran Analyte  Total TPH  Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	<0.00399  nge Organic Result 54.7  ange Organ	S (DRO) (O Qualifier	0.00399  GC)  RL  49.8	0.00101 MDL 14.9	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared	11/17/21 16:31  Analyzed 11/17/21 13:26	Dil Fac
Total BTEX  Method: 8015 NM - Diesel Ran Analyte  Total TPH  Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00399  nge Organic Result 54.7  ange Organ Result	S (DRO) (O Qualifier ics (DRO) Qualifier J	0.00399  RL 49.8  (GC) RL	0.00101  MDL 14.9  MDL 14.9	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	11/17/21 16:31  Analyzed 11/17/21 13:26  Analyzed	Dil Fac
Total BTEX  Method: 8015 NM - Diesel Ran Analyte  Total TPH  Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00399  nge Organic Result 54.7  ange Organ Result 18.1	S (DRO) (O Qualifier )  ics (DRO) Qualifier J B	0.00399  RL 49.8  (GC)  RL 49.8	0.00101  MDL 14.9  MDL 14.9	mg/Kg  Unit mg/Kg  Unit mg/Kg	<u>D</u>	Prepared  11/16/21 14:18	Analyzed 11/17/21 13:26  Analyzed 11/17/21 13:26  Analyzed 11/16/21 18:41	Dil Fac
Total BTEX  Method: 8015 NM - Diesel Ran Analyte  Total TPH  Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00399  nge Organic Result 54.7  ange Organ Result 18.1 36.6	S (DRO) (O Qualifier ICS (DRO) Qualifier J B	0.00399  RL 49.8  (GC)  RL 49.8  49.8	0.00101  MDL 14.9  MDL 14.9	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg	<u>D</u>	Prepared  11/16/21 14:18  11/16/21 14:18	Analyzed 11/17/21 16:31  Analyzed 11/17/21 13:26  Analyzed 11/16/21 18:41 11/16/21 18:41	Dil Fac
Total BTEX  Method: 8015 NM - Diesel Rar Analyte  Total TPH  Method: 8015B NM - Diesel Rar Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00399 nge Organic Result 54.7 ange Organ Result 18.1 36.6 <49.8	S (DRO) (O Qualifier ICS (DRO) Qualifier J B	0.00399  RL 49.8  (GC) RL 49.8  49.8  49.8	0.00101  MDL 14.9  MDL 14.9	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg	<u>D</u>	Prepared  11/16/21 14:18  11/16/21 14:18	Analyzed 11/17/21 16:31  Analyzed 11/17/21 13:26  Analyzed 11/16/21 18:41 11/16/21 18:41 11/16/21 18:41	Dil Fac

Client Sample ID: BH-4 Lab Sample ID: 890-1575-6

RL

4.95

MDL Unit

0.850 mg/Kg

Prepared

Date Collected: 11/15/21 13:45 Date Received: 11/15/21 16:00

Result Qualifier

40.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		11/16/21 09:53	11/17/21 03:16	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		11/16/21 09:53	11/17/21 03:16	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		11/16/21 09:53	11/17/21 03:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		11/16/21 09:53	11/17/21 03:16	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		11/16/21 09:53	11/17/21 03:16	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		11/16/21 09:53	11/17/21 03:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				11/16/21 09:53	11/17/21 03:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/16/21 09:53	11/17/21 03:16	1

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Analyzed

11/16/21 19:37

**Matrix: Solid** 

# **Client Sample Results**

Client: GHD Services Inc. Project/Site: Madison Fee COM #1 Job ID: 890-1575-1

SDG: 11220758

Client Sample ID: BH-4

Date Collected: 11/15/21 13:45 Date Received: 11/15/21 16:00

Lab Sample ID: 890-1575-6

**Matrix: Solid** 

Method:	Total BTEX -	Total BTEX	Calculation
A I4 -			Descrit Occalit

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg			11/17/21 16:31	1

# Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.7 J	50.0	15.0 mg/Kg			11/17/21 13:26	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 19:03	1
Diesel Range Organics (Over C10-C28)	34.7	JB	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 19:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	11/16/21 14:18	11/16/21 19:03	1
o-Terphenyl	125		70 - 130	11/16/21 14:18	11/16/21 19:03	1

# Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.5	4.97	0.853 mg/Kg			11/16/21 19:52	1

Lab Sample ID: 890-1575-7 **Client Sample ID: BH-5** Date Collected: 11/15/21 13:50 **Matrix: Solid** 

Date Received: 11/15/21 16:00

Method: 8021B -	Volatile Organic	<b>Compounds (GC)</b>

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000469	J	0.00200	0.000385	mg/Kg		11/16/21 09:53	11/17/21 03:37	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/16/21 09:53	11/17/21 03:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/16/21 09:53	11/17/21 03:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/16/21 09:53	11/17/21 03:37	1
o-Xylene	0.000571	J	0.00200	0.000344	mg/Kg		11/16/21 09:53	11/17/21 03:37	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/16/21 09:53	11/17/21 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				11/16/21 09:53	11/17/21 03:37	1
1.4-Difluorobenzene (Surr)	96		70 - 130				11/16/21 09:53	11/17/21 03:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00104	J	0.00400	0.00101	ma/Ka			11/17/21 16:31	1

#### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	42.1	J	50.0	15.0	mg/Kg			11/17/21 13:26	1	

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

			(/						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	17.8	J	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 19:25	1
(GRO)-C6-C10									
Diesel Range Organics (Over	24.3	JB	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 19:25	1
C10-C28)									

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Released to Imaging: 9/13/2022 2:25:32 PM

Job ID: 890-1575-1

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

**Client Sample ID: BH-5** Date Collected: 11/15/21 13:50 Date Received: 11/15/21 16:00

Lab Sample ID: 890-1575-7

**Matrix: Solid** 

SDG: 11220758

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				11/16/21 14:18	11/16/21 19:25	1
o-Terphenyl	131	S1+	70 - 130				11/16/21 14:18	11/16/21 19:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.31		4.99	0.857	mg/Kg			11/16/21 19:57	1

**Client Sample ID: SW-3** 

Date Collected: 11/15/21 14:00 Date Received: 11/15/21 16:00

Lab Sample ID: 890-1575-8

Matrix: Solid

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		11/16/21 09:53	11/17/21 03:57	1
Toluene	0.000589	J	0.00200	0.000455	mg/Kg		11/16/21 09:53	11/17/21 03:57	1
Ethylbenzene	< 0.00200	U	0.00200	0.000564	mg/Kg		11/16/21 09:53	11/17/21 03:57	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	0.00101	mg/Kg		11/16/21 09:53	11/17/21 03:57	1
o-Xylene	< 0.00200	U	0.00200	0.000343	mg/Kg		11/16/21 09:53	11/17/21 03:57	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		11/16/21 09:53	11/17/21 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				11/16/21 09:53	11/17/21 03:57	1
1 1 Diffuorabanzana (Curr)	67	01	70 120				11/16/01 00:50	11/17/01 00:57	1

4-Bromofluoro	benzene (Surr)	133	S1+	70 - 130	_	1	1/16/21 09:53	11/17/21 03:57	1
1,4-Difluorobe	nzene (Surr)	67	S1-	70 - 130		1	1/16/21 09:53	11/17/21 03:57	1

**Method: Total BTEX - Total BTEX Calculation** 

Analyte	Result Qualifi	er RL	MDL Unit	D Prepare	ed Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	0.00101 mg/Kg		11/17/21 16:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.5		49.9	15.0	mg/Kg			11/17/21 13:26	1

Method:	: 8015B NM -	Diesel Rang	ge Organics	(DRO)	(GC)
---------	--------------	-------------	-------------	-------	------

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.5	J	49.9	15.0	mg/Kg		11/16/21 14:18	11/16/21 19:47	1
Diesel Range Organics (Over C10-C28)	19.5	JB	49.9	15.0	mg/Kg		11/16/21 14:18	11/16/21 19:47	1
Oll Range Organics (Over C28-C36)	17.5	JB	49.9	15.0	mg/Kg		11/16/21 14:18	11/16/21 19:47	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109	70 - 130	11/16/21 14:18	11/16/21 19:47	1
o-Terphenyl	128	70 - 130	11/16/21 14:18	11/16/21 19:47	1

Method:	300.0	- Anione	lon	Chromatography	- Soluble
Metriou.	300.U	- Alliulis,	1011	Cilibilialography	- Soluble

mountain volume 7 minorite, nom en	momatograpily colub.	•						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	455	4.99	0.857 ma/Ka			11/16/21 20:02	1	

Job ID: 890-1575-1 SDG: 11220758

Client: GHD Services Inc. Project/Site: Madison Fee COM #1

**Client Sample ID: BH-6** 

Date Collected: 11/15/21 14:05

Lab Sample ID: 890-1575-9

**Matrix: Solid** 

Date Received: 11/15/21 16:00
Method: 8021B - Volatile Organic Compounds (GC)

Welliou. 002 ID - Volatile	Organic Compo	ilius (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		11/16/21 09:53	11/17/21 04:18	1
Toluene	< 0.00199	U	0.00199	0.000454	mg/Kg		11/16/21 09:53	11/17/21 04:18	1
Ethylbenzene	< 0.00199	U	0.00199	0.000563	mg/Kg		11/16/21 09:53	11/17/21 04:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 09:53	11/17/21 04:18	1
o-Xylene	< 0.00199	U	0.00199	0.000343	mg/Kg		11/16/21 09:53	11/17/21 04:18	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 09:53	11/17/21 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

l	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
l	4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	11/16/21 09:53	11/17/21 04:18	1
	1,4-Difluorobenzene (Surr)	83		70 - 130	11/16/21 09:53	11/17/21 04:18	1

# **Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			11/17/21 16:31	1

# Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepare	ed Analyzed	Dil Fac
Total TPH	32.6	J	49.8	14.9	mg/Kg			11/17/21 13:26	1

# Method: 8015B NM - Diesel Range Organics (DRO) (GC)

			/						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		11/16/21 14:18	11/16/21 20:09	1
Diesel Range Organics (Over C10-C28)	16.6	JB	49.8	14.9	mg/Kg		11/16/21 14:18	11/16/21 20:09	1
Oll Range Organics (Over C28-C36)	16.0	JB	49.8	14.9	mg/Kg		11/16/21 14:18	11/16/21 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	11/16/21 14:18	11/16/21 20:09	1
o-Terphenyl	145	S1+	70 - 130	11/16/21 14:18	11/16/21 20:09	1

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.1	4.98	0.855 mg/Kg			11/16/21 20:07	1

Client Sample ID: BH-7 Data Collected: 11/15/21 14:15

Date Collected.	. 11/13/21 14.13		
Date Received:	11/15/21 16:00		

Lab Sample ID: 890-1575-10

**Matrix: Solid** 

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		11/16/21 09:53	11/17/21 04:38	1
Toluene	0.000693	J	0.00201	0.000458	mg/Kg		11/16/21 09:53	11/17/21 04:38	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		11/16/21 09:53	11/17/21 04:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		11/16/21 09:53	11/17/21 04:38	1
o-Xylene	0.000670	J	0.00201	0.000345	mg/Kg		11/16/21 09:53	11/17/21 04:38	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		11/16/21 09:53	11/17/21 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				11/16/21 09:53	11/17/21 04:38	1
1,4-Difluorobenzene (Surr)	92		70 - 130				11/16/21 09:53	11/17/21 04:38	1

Surrogate

# **Client Sample Results**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1

SDG: 11220758

Client Sample ID: BH-7 Lab Sample ID: 890-1575-10

Date Collected: 11/15/21 14:15

Date Received: 11/15/21 16:00

Matrix: Solid

Method: Total BTEX - Total BTE Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00136	J	0.00402	0.00101	mg/Kg			11/17/21 16:31	1
Method: 8015 NM - Diesel Rang	e Organic	s (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.5	J	49.9	15.0	mg/Kg			11/17/21 13:26	1
	•	ics (DRO) ( Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier	•		Unit mg/Kg	<u>D</u>	Prepared 11/16/21 14:18		Dil Fac
Method: 8015B NM - Diesel Rar Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier J	RL	15.0		<u>D</u>			Dil Fac

9	•		•	•	
1-Chlorooctane	114	70 - 130	11/16/21 14:18	11/16/21 20:31	1
o-Terphenyl	131 S1+	70 - 130	11/16/21 14:18	11/16/21 20:31	1
Method: 300 0 - Anions Ion C	hromatography - So	Juhla			

Limits

%Recovery Qualifier

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac
Chloride 283 5.00 0.858 mg/Kg 11/16/21 20:12 1

Client Sample ID: BH-8

Date Collected: 11/15/21 14:35

Date Received: 11/15/21 16:00

Lab Sample ID: 890-1575-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000432	J	0.00200	0.000386	mg/Kg		11/16/21 09:53	11/17/21 06:00	1
Toluene	0.000886	J	0.00200	0.000457	mg/Kg		11/16/21 09:53	11/17/21 06:00	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		11/16/21 09:53	11/17/21 06:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		11/16/21 09:53	11/17/21 06:00	
o-Xylene	0.000489	J	0.00200	0.000345	mg/Kg		11/16/21 09:53	11/17/21 06:00	•
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		11/16/21 09:53	11/17/21 06:00	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				11/16/21 09:53	11/17/21 06:00	
1,4-Difluorobenzene (Surr)	71		70 - 130				11/16/21 09:53	11/17/21 06:00	
Method: Total BTEX - Total									
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00181	J	0.00401	0.00101	mg/Kg			11/17/21 16:31	1
Method: 8015 NM - Diesel R	ange Organic	s (DRO) (G	SC)						
		s (DRO) (G Qualifier	C)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel R Analyte Total TPH		Qualifier	•		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/17/21 13:26	Dil Fac
Analyte Total TPH	17.0	Qualifier J	49.9			<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel	Result 17.0	Qualifier J	49.9		mg/Kg	<u>D</u>	Prepared Prepared		
Analyte	Result 17.0	Qualifier  J  ics (DRO)  Qualifier	RL 49.9 (GC)	15.0 <b>MDL</b>	mg/Kg Unit		<u> </u>	11/17/21 13:26	Dil Fac

Eurofins Xenco, Carlsbad

Prepared

Analyzed

Dil Fac

Job ID: 890-1575-1 SDG: 11220758

Client: GHD Services Inc. Project/Site: Madison Fee COM #1

Lab Sample ID: 890-1575-11

**Matrix: Solid** 

Client Sample ID: BH-8
Date Collected: 11/15/21 14:35

Date Received: 11/15/21 16:00

Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC) (Contin	ued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/16/21 14:18	11/16/21 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				11/16/21 14:18	11/16/21 21:15	1
o-Terphenyl	128		70 - 130				11/16/21 14:18	11/16/21 21:15	1

Method: 300.0 - Anions, Ion Ch	ohy - Soluble	9							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.9		4.95	0.850	mg/Kg			11/16/21 20:17	1

Lab Sample ID: 890-1575-12 **Client Sample ID: BH-9** Date Collected: 11/15/21 14:45 **Matrix: Solid** 

Date Received: 11/15/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		11/16/21 09:53	11/17/21 06:20	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		11/16/21 09:53	11/17/21 06:20	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		11/16/21 09:53	11/17/21 06:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		11/16/21 09:53	11/17/21 06:20	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		11/16/21 09:53	11/17/21 06:20	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		11/16/21 09:53	11/17/21 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				11/16/21 09:53	11/17/21 06:20	1
1,4-Difluorobenzene (Surr)	98		70 - 130				11/16/21 09:53	11/17/21 06:20	1

Method: Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg			11/17/21 16:31	1

Method: 8015 NM - Diesel Rang	e Organic	s (DRO) (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	37.1	J	50.0	15.0	mg/Kg			11/17/21 13:26	1
		· · (DDO) (O	<b>0</b> )						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.6	J	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 21:36	1
Diesel Range Organics (Over C10-C28)	19.5	JB	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 21:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110	-	70 - 130				11/16/21 14:18	11/16/21 21:36	1
o-Terphenyl	121		70 - 130				11/16/21 14:18	11/16/21 21:36	1

Method: 300.0 - Anions, Ion Ch	nromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	0.865	mg/Kg			11/16/21 20:31	1

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11/18/2021

# **Client Sample Results**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1
SDG: 11220758

Client Sample ID: SW-4 Lab Sample ID: 890-1575-13

Date Collected: 11/15/21 15:00 Matrix: Solid
Date Received: 11/15/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		11/16/21 09:53	11/17/21 06:41	1
Toluene	< 0.00199	U	0.00199	0.000453	mg/Kg		11/16/21 09:53	11/17/21 06:41	1
Ethylbenzene	< 0.00199	U	0.00199	0.000562	mg/Kg		11/16/21 09:53	11/17/21 06:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		11/16/21 09:53	11/17/21 06:41	1
o-Xylene	< 0.00199	U	0.00199	0.000342	mg/Kg		11/16/21 09:53	11/17/21 06:41	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		11/16/21 09:53	11/17/21 06:41	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				11/16/21 09:53	11/17/21 06:41	-
1,4-Difluorobenzene (Surr)	94		70 - 130				11/16/21 09:53	11/17/21 06:41	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			11/17/21 16:31	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.7	J	50.0	15.0	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 21:58	1
Diesel Range Organics (Over C10-C28)	23.7	JB	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 21:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	126		70 - 130				11/16/21 14:18	11/16/21 21:58	
o-Terphenyl	144	S1+	70 - 130				11/16/21 14:18	11/16/21 21:58	1
Method: 300.0 - Anions, Ion C	hromatogra	ıphy - Solı	ıble						
A I4 -	D 14	O	D.	MADI	1114	_	D	A I	D'1 F - 1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

# **Surrogate Summary**

Client: GHD Services Inc. Job ID: 890-1575-1 Project/Site: Madison Fee COM #1 SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Solid** Prep Type: Total/NA

			Percent S	Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1575-1	BH-1	129	77	
890-1575-1 MS	BH-1	126	105	
890-1575-1 MSD	BH-1	117	102	
890-1575-2	BH-2	131 S1+	96	
890-1575-3	BH-3	128	111	
890-1575-4	SW-1	128	88	
890-1575-5	SW-2	143 S1+	99	
890-1575-6	BH-4	132 S1+	101	
890-1575-7	BH-5	145 S1+	96	
890-1575-8	SW-3	133 S1+	67 S1-	
890-1575-9	BH-6	131 S1+	83	
890-1575-10	BH-7	134 S1+	92	
890-1575-11	BH-8	137 S1+	71	
890-1575-12	BH-9	139 S1+	98	
890-1575-13	SW-4	131 S1+	94	
LCS 880-12430/1-A	Lab Control Sample	115	105	
LCSD 880-12430/2-A	Lab Control Sample Dup	119	108	
MB 880-12349/5-A	Method Blank	125	97	
MB 880-12430/5-A	Method Blank	121	97	

urrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

# Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1	urrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1575-1	BH-1	130	146 S1+	
890-1575-1 MS	BH-1	111	117	
890-1575-1 MSD	BH-1	111	115	
890-1575-2	BH-2	110	129	
890-1575-3	BH-3	109	127	
890-1575-4	SW-1	127	142 S1+	
890-1575-5	SW-2	108	126	
890-1575-6	BH-4	108	125	
890-1575-7	BH-5	111	131 S1+	
890-1575-8	SW-3	109	128	
890-1575-9	BH-6	127	145 S1+	
890-1575-10	BH-7	114	131 S1+	
890-1575-11	BH-8	110	128	
890-1575-12	BH-9	110	121	
890-1575-13	SW-4	126	144 S1+	
LCS 880-12468/2-A	Lab Control Sample	93	105	
LCSD 880-12468/3-A	Lab Control Sample Dup	94	108	
MB 880-12468/1-A	Method Blank	115	136 S1+	

# **Surrogate Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

OTPH = o-Terphenyl

Job ID: 890-1575-1 SDG: 11220758

# **QC Sample Results**

Client: GHD Services Inc. Job ID: 890-1575-1 Project/Site: Madison Fee COM #1 SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12349/5-A

**Matrix: Solid** 

**Analysis Batch: 12415** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prep Batch: 12349

	MB	MB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/15/21 15:49	11/16/21 11:49	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125	70 - 130	11/15/21 15:49	11/16/21 11:49	1
1,4-Difluorobenzene (Surr)	97	70 - 130	11/15/21 15:49	11/16/21 11:49	1

Lab Sample ID: 890-1575-1 MS

Matrix: Solid

**Analysis Batch: 12415** 

MS MS

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-12430/5-A

Matrix: Solid

**Analysis Batch: 12415** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA Prep Batch: 12430

Client Sample ID: BH-1

**Prep Type: Total/NA** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/16/21 09:53	11/17/21 01:13	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/16/21 09:53	11/17/21 01:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/16/21 09:53	11/17/21 01:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/16/21 09:53	11/17/21 01:13	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/16/21 09:53	11/17/21 01:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/16/21 09:53	11/17/21 01:13	1

	MB ME	В			
Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121	70 - 130	11/16/21 09:53	11/17/21 01:13	1
1,4-Difluorobenzene (Surr)	97	70 - 130	11/16/21 09:53	11/17/21 01:13	1

Lab Sample ID: LCS 880-12430/1-A

**Matrix: Solid** 

**Analysis Batch: 12415** 

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12430

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08893		mg/Kg		89	70 - 130	
Toluene	0.100	0.08065		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.08346		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1777		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08746		mg/Kg		87	70 - 130	

Client: GHD Services Inc.

Job ID: 890-1575-1 SDG: 11220758 Project/Site: Madison Fee COM #1

# Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-12430/1-A

**Matrix: Solid** 

**Analysis Batch: 12415** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 12430

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 115 70 - 130 1,4-Difluorobenzene (Surr) 105 70 - 130

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 880-12430/2-A

**Matrix: Solid** 

Prep Type: Total/NA **Analysis Batch: 12415** Prep Batch: 12430 LCSD LCSD %Rec. **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 0.100 0.09925 mg/Kg 99 70 - 130 11 35

Benzene Toluene 0.100 0.08893 mg/Kg 89 70 - 130 10 35 Ethylbenzene 0.100 0.09243 mg/Kg 92 70 - 130 10 35 m-Xylene & p-Xylene 0.200 0.1960 mg/Kg 98 70 - 130 10 35 o-Xylene 0.100 0.09798 mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: 890-1575-1 MSD

Client Sample ID: BH-1 **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 12415** Prep Batch: 12430

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.07376		mg/Kg					
Toluene	0.000520	J	0.100	0.06262		mg/Kg					
Ethylbenzene	< 0.00201	U	0.100	0.06447		mg/Kg					
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1339		mg/Kg					
o-Xylene	<0.00201	U	0.100	0.06763		mg/Kg					

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12468/1-A

Released to Imaging: 9/13/2022 2:25:32 PM

**Matrix: Solid** 

**Analysis Batch: 12466** 

**Client Sample ID: Method Blank** Prep Type: Total/NA Prep Batch: 12468

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 15:23	1
Diesel Range Organics (Over C10-C28)	16.37	J	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 15:23	1
OII Range Organics (Over C28-C36)	22.24	J	50.0	15.0	mg/Kg		11/16/21 14:18	11/16/21 15:23	1
	MR	MR							

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	115	70 - 130

Prepared Dil Fac Analyzed 11/16/21 14:18 11/16/21 15:23

Client: GHD Services Inc. Project/Site: Madison Fee COM #1

Job ID: 890-1575-1 SDG: 11220758

# Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-12468/1-A

Lab Sample ID: LCS 880-12468/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 12466** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Batch: 12468

MB MB

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 136 S1+ 11/16/21 14:18 11/16/21 15:23 o-Terphenyl 70 - 130

**Client Sample ID: Lab Control Sample** 

70 - 130

89

Prep Type: Total/NA

Prep Batch: 12468

Prep Type: Total/NA

**Analysis Batch: 12466** Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics 1000 70 - 130 994.0 mg/Kg 99 (GRO)-C6-C10

1000

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	105		70 - 130

**Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** 

Lab Sample ID: LCSD 880-12468/3-A

**Analysis Batch: 12466** 

Diesel Range Organics (Over

Prep Batch: 12468 Spike LCSD LCSD %Rec. **RPD** 

889.3

mg/Kg

Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1069 mg/Kg 107 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 906.7 mg/Kg 91 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	108	70 - 130

Lab Sample ID: 890-1575-1 MS Client Sample ID: BH-1

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 12466** Prep Batch: 12468 Comple Comple

	Sample	Sample	эріке	IVIO	IVIS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	997	1044		mg/Kg		105	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	116	В	997	919.0		ma/Ka		81	70 - 130	

C10-C28)

	IVIS IVIS	
Surrogate	%Recovery Qua	alifier Limits
1-Chlorooctane	111	70 - 130
o-Terphenyl	117	70 - 130

Client: GHD Services Inc. Job ID: 890-1575-1 Project/Site: Madison Fee COM #1 SDG: 11220758

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1575-1 MSD Client Sample ID: BH-1

**Matrix: Solid** 

**Analysis Batch: 12466** 

Prep Type: Total/NA Prep Batch: 12468

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	•	Qualifier	Added	_	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1096		mg/Kg		110	70 - 130	5	20
Diesel Range Organics (Over	116	В	998	922.7		mg/Kg		81	70 - 130	0	20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	115		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12437/1-A **Client Sample ID: Method Blank Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 12500** 

MB MB

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	0.858 mg/Kg			11/16/21 18:53	1

Lab Sample ID: LCS 880-12437/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

Matrix: Solid

**Analysis Batch: 12500** 

•	s	pike L0	CS LCS				%Rec.
Analyte	Ad	lded Resi	ult Qualifier	Unit	D	%Rec	Limits
Chloride	<del></del>	250 245	. 8	ma/Ka		98	90 - 110

Lab Sample ID: LCSD 880-12437/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 12500** 

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	 250	249 4		ma/Ka		100	90 - 110		20

Lab Sample ID: 890-1575-1 MS Client Sample ID: BH-1 **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 12500** 

		Sample	Sample	Spike	MS	MS				%Rec.	
Δ.	nalyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
7	hloride	19.2		250	276.2		ma/Ka		103	90 - 110	 

Lab Sample ID: 890-1575-1 MSD Client Sample ID: BH-1 **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 12500

Alialysis Datcil. 12300											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	19.2		250	281.3		mg/Kg		105	90 - 110	2	20

# **QC Sample Results**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1

SDG: 11220758

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1575-11 MS

Matrix: Solid

Client Sample ID: BH-8

Prep Type: Soluble

**Analysis Batch: 12500** 

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	18.9		248	281.5		mg/Kg	_	106	90 - 110	 

Lab Sample ID: 890-1575-11 MSD

Matrix: Solid

Client Sample ID: BH-8

Prep Type: Soluble

Analysis Batch: 12500

RPD Sample Sample Spike MSD MSD %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 18.9 248 283.1 107 90 - 110 mg/Kg

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1
SDG: 11220758

# **GC VOA**

#### **Analysis Batch: 12338**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-1	BH-1	Total/NA	Solid	Total BTEX	
890-1575-2	BH-2	Total/NA	Solid	Total BTEX	
890-1575-3	BH-3	Total/NA	Solid	Total BTEX	
890-1575-4	SW-1	Total/NA	Solid	Total BTEX	
890-1575-5	SW-2	Total/NA	Solid	Total BTEX	
890-1575-6	BH-4	Total/NA	Solid	Total BTEX	
890-1575-7	BH-5	Total/NA	Solid	Total BTEX	
890-1575-8	SW-3	Total/NA	Solid	Total BTEX	
890-1575-9	BH-6	Total/NA	Solid	Total BTEX	
890-1575-10	BH-7	Total/NA	Solid	Total BTEX	
890-1575-11	BH-8	Total/NA	Solid	Total BTEX	
890-1575-12	BH-9	Total/NA	Solid	Total BTEX	
890-1575-13	SW-4	Total/NA	Solid	Total BTEX	

#### Prep Batch: 12349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12349/5-A	Method Blank	Total/NA	Solid	5035	

#### **Analysis Batch: 12415**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-1	BH-1	Total/NA	Solid	8021B	12430
890-1575-2	BH-2	Total/NA	Solid	8021B	12430
890-1575-3	BH-3	Total/NA	Solid	8021B	12430
890-1575-4	SW-1	Total/NA	Solid	8021B	12430
890-1575-5	SW-2	Total/NA	Solid	8021B	12430
890-1575-6	BH-4	Total/NA	Solid	8021B	12430
890-1575-7	BH-5	Total/NA	Solid	8021B	12430
890-1575-8	SW-3	Total/NA	Solid	8021B	12430
890-1575-9	BH-6	Total/NA	Solid	8021B	12430
890-1575-10	BH-7	Total/NA	Solid	8021B	12430
890-1575-11	BH-8	Total/NA	Solid	8021B	12430
890-1575-12	BH-9	Total/NA	Solid	8021B	12430
890-1575-13	SW-4	Total/NA	Solid	8021B	12430
MB 880-12349/5-A	Method Blank	Total/NA	Solid	8021B	12349
MB 880-12430/5-A	Method Blank	Total/NA	Solid	8021B	12430
LCS 880-12430/1-A	Lab Control Sample	Total/NA	Solid	8021B	12430
LCSD 880-12430/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12430
890-1575-1 MS	BH-1	Total/NA	Solid	8021B	
890-1575-1 MSD	BH-1	Total/NA	Solid	8021B	12430

#### Prep Batch: 12430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-1	BH-1	Total/NA	Solid	5035	_
890-1575-2	BH-2	Total/NA	Solid	5035	
890-1575-3	BH-3	Total/NA	Solid	5035	
890-1575-4	SW-1	Total/NA	Solid	5035	
890-1575-5	SW-2	Total/NA	Solid	5035	
890-1575-6	BH-4	Total/NA	Solid	5035	
890-1575-7	BH-5	Total/NA	Solid	5035	
890-1575-8	SW-3	Total/NA	Solid	5035	
890-1575-9	BH-6	Total/NA	Solid	5035	

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1

SDG: 11220758

# **GC VOA (Continued)**

#### Prep Batch: 12430 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-10	BH-7	Total/NA	Solid	5035	
890-1575-11	BH-8	Total/NA	Solid	5035	
890-1575-12	BH-9	Total/NA	Solid	5035	
890-1575-13	SW-4	Total/NA	Solid	5035	
MB 880-12430/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12430/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12430/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1575-1 MSD	BH-1	Total/NA	Solid	5035	

#### **GC Semi VOA**

#### **Analysis Batch: 12466**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-1	BH-1	Total/NA	Solid	8015B NM	12468
890-1575-2	BH-2	Total/NA	Solid	8015B NM	12468
890-1575-3	BH-3	Total/NA	Solid	8015B NM	12468
890-1575-4	SW-1	Total/NA	Solid	8015B NM	12468
890-1575-5	SW-2	Total/NA	Solid	8015B NM	12468
890-1575-6	BH-4	Total/NA	Solid	8015B NM	12468
890-1575-7	BH-5	Total/NA	Solid	8015B NM	12468
890-1575-8	SW-3	Total/NA	Solid	8015B NM	12468
890-1575-9	BH-6	Total/NA	Solid	8015B NM	12468
890-1575-10	BH-7	Total/NA	Solid	8015B NM	12468
890-1575-11	BH-8	Total/NA	Solid	8015B NM	12468
890-1575-12	BH-9	Total/NA	Solid	8015B NM	12468
890-1575-13	SW-4	Total/NA	Solid	8015B NM	12468
MB 880-12468/1-A	Method Blank	Total/NA	Solid	8015B NM	12468
LCS 880-12468/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12468
LCSD 880-12468/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12468
890-1575-1 MS	BH-1	Total/NA	Solid	8015B NM	12468
890-1575-1 MSD	BH-1	Total/NA	Solid	8015B NM	12468

#### Prep Batch: 12468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-1	BH-1	Total/NA	Solid	8015NM Prep	
890-1575-2	BH-2	Total/NA	Solid	8015NM Prep	
890-1575-3	BH-3	Total/NA	Solid	8015NM Prep	
890-1575-4	SW-1	Total/NA	Solid	8015NM Prep	
890-1575-5	SW-2	Total/NA	Solid	8015NM Prep	
890-1575-6	BH-4	Total/NA	Solid	8015NM Prep	
890-1575-7	BH-5	Total/NA	Solid	8015NM Prep	
890-1575-8	SW-3	Total/NA	Solid	8015NM Prep	
890-1575-9	BH-6	Total/NA	Solid	8015NM Prep	
890-1575-10	BH-7	Total/NA	Solid	8015NM Prep	
890-1575-11	BH-8	Total/NA	Solid	8015NM Prep	
890-1575-12	BH-9	Total/NA	Solid	8015NM Prep	
890-1575-13	SW-4	Total/NA	Solid	8015NM Prep	
MB 880-12468/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12468/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12468/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1575-1 MS	BH-1	Total/NA	Solid	8015NM Prep	

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1 SDG: 11220758

# **GC Semi VOA (Continued)**

Prep Batch: 12468 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-1 MSD	BH-1	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 12574** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-1	BH-1	Total/NA	Solid	8015 NM	
890-1575-2	BH-2	Total/NA	Solid	8015 NM	
890-1575-3	BH-3	Total/NA	Solid	8015 NM	
890-1575-4	SW-1	Total/NA	Solid	8015 NM	
890-1575-5	SW-2	Total/NA	Solid	8015 NM	
890-1575-6	BH-4	Total/NA	Solid	8015 NM	
890-1575-7	BH-5	Total/NA	Solid	8015 NM	
890-1575-8	SW-3	Total/NA	Solid	8015 NM	
890-1575-9	BH-6	Total/NA	Solid	8015 NM	
890-1575-10	BH-7	Total/NA	Solid	8015 NM	
890-1575-11	BH-8	Total/NA	Solid	8015 NM	
890-1575-12	BH-9	Total/NA	Solid	8015 NM	
890-1575-13	SW-4	Total/NA	Solid	8015 NM	

## HPLC/IC

Leach Batch: 12437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-1	BH-1	Soluble	Solid	DI Leach	
890-1575-2	BH-2	Soluble	Solid	DI Leach	
890-1575-3	BH-3	Soluble	Solid	DI Leach	
890-1575-4	SW-1	Soluble	Solid	DI Leach	
890-1575-5	SW-2	Soluble	Solid	DI Leach	
890-1575-6	BH-4	Soluble	Solid	DI Leach	
890-1575-7	BH-5	Soluble	Solid	DI Leach	
890-1575-8	SW-3	Soluble	Solid	DI Leach	
890-1575-9	BH-6	Soluble	Solid	DI Leach	
890-1575-10	BH-7	Soluble	Solid	DI Leach	
890-1575-11	BH-8	Soluble	Solid	DI Leach	
890-1575-12	BH-9	Soluble	Solid	DI Leach	
890-1575-13	SW-4	Soluble	Solid	DI Leach	
MB 880-12437/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12437/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12437/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1575-1 MS	BH-1	Soluble	Solid	DI Leach	
890-1575-1 MSD	BH-1	Soluble	Solid	DI Leach	
890-1575-11 MS	BH-8	Soluble	Solid	DI Leach	
890-1575-11 MSD	BH-8	Soluble	Solid	DI Leach	

#### **Analysis Batch: 12500**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-1	BH-1	Soluble	Solid	300.0	12437
890-1575-2	BH-2	Soluble	Solid	300.0	12437
890-1575-3	BH-3	Soluble	Solid	300.0	12437
890-1575-4	SW-1	Soluble	Solid	300.0	12437
890-1575-5	SW-2	Soluble	Solid	300.0	12437
890-1575-6	BH-4	Soluble	Solid	300.0	12437

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1

SDG: 11220758

# **HPLC/IC (Continued)**

#### **Analysis Batch: 12500 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1575-7	BH-5	Soluble	Solid	300.0	12437
890-1575-8	SW-3	Soluble	Solid	300.0	12437
890-1575-9	BH-6	Soluble	Solid	300.0	12437
890-1575-10	BH-7	Soluble	Solid	300.0	12437
890-1575-11	BH-8	Soluble	Solid	300.0	12437
890-1575-12	BH-9	Soluble	Solid	300.0	12437
890-1575-13	SW-4	Soluble	Solid	300.0	12437
MB 880-12437/1-A	Method Blank	Soluble	Solid	300.0	12437
LCS 880-12437/2-A	Lab Control Sample	Soluble	Solid	300.0	12437
LCSD 880-12437/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12437
890-1575-1 MS	BH-1	Soluble	Solid	300.0	12437
890-1575-1 MSD	BH-1	Soluble	Solid	300.0	12437
890-1575-11 MS	BH-8	Soluble	Solid	300.0	12437
890-1575-11 MSD	BH-8	Soluble	Solid	300.0	12437

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Client Sample ID: BH-1

Date Collected: 11/15/21 13:00 Date Received: 11/15/21 16:00

Lab Sample ID: 890-1575-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 01:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	12468 12466	11/16/21 14:18 11/16/21 16:29		XEN MID XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5.01 g	50 mL	12437 12500	11/16/21 10:12 11/16/21 19:08		XEN MID XEN MID

Client Sample ID: BH-2 Lab Sample ID: 890-1575-2 Date Collected: 11/15/21 13:05

Date Received: 11/15/21 16:00

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method Number or Analyzed Type Run **Factor Amount** Amount **Analyst** Lab Total/NA Prep 5035 5 mL 12430 11/16/21 09:53 KL XEN MID 5.02 g Total/NA 8021B 5 mL 11/17/21 01:55 KL XEN MID Analysis 5 mL 12415 1 Total/NA Total BTEX Analysis 1 12338 11/17/21 16:31 AJ XEN MID Total/NA 8015 NM 12574 11/17/21 13:26 AJ XEN MID Analysis 1 Total/NA Prep 8015NM Prep 10.02 g 10 mL 12468 11/16/21 14:18 DM XEN MID Total/NA 8015B NM 11/16/21 17:35 AJ XEN MID Analysis 1 12466 Soluble 5.05 g 50 mL 12437 11/16/21 10:12 CH XEN MID Leach DI Leach Soluble 300.0 11/16/21 19:23 CH Analysis 1 12500 XEN MID

Client Sample ID: BH-3 Lab Sample ID: 890-1575-3

Date Collected: 11/15/21 13:10 Date Received: 11/15/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 02:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12468	11/16/21 14:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12466	11/16/21 17:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12437	11/16/21 10:12	CH	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 19:27	CH	XEN MID

**Client Sample ID: SW-1** Lab Sample ID: 890-1575-4 Date Collected: 11/15/21 13:15 Matrix: Solid

Date Received: 11/15/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analvst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12430	11/16/21 09:53		XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 02:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID

Eurofins Xenco, Carlsbad

Page 26 of 38

Matrix: Solid

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Lab Sample ID: 890-1575-4

Matrix: Solid

Client Sample ID: SW-1
Date Collected: 11/15/21 13:15

Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12468	11/16/21 14:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12466	11/16/21 18:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12437	11/16/21 10:12	CH	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 19:32	CH	XEN MID

Client Sample ID: SW-2

Date Collected: 11/15/21 13:30

Lab Sample ID: 890-1575-5

Matrix: Solid

Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 02:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g	10 mL	12468 12466	11/16/21 14:18 11/16/21 18:41		XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5.05 g	50 mL	12437 12500	11/16/21 10:12 11/16/21 19:37		XEN MID

Client Sample ID: BH-4

Date Collected: 11/15/21 13:45

Lab Sample ID: 890-1575-6

Matrix: Solid

Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 03:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12468	11/16/21 14:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12466	11/16/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12437	11/16/21 10:12	CH	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 19:52	CH	XEN MID

Client Sample ID: BH-5

Date Collected: 11/15/21 13:50

Lab Sample ID: 890-1575-7

Matrix: Solid

Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 03:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	12468 12466	11/16/21 14:18 11/16/21 19:25		XEN MID XEN MID

Client: GHD Services Inc.
Project/Site: Madison Fee

Project/Site: Madison Fee COM #1

Lab Sample ID: 890-1575-7

Matrix: Solid

Client Sample ID: BH-5

Date Collected: 11/15/21 13:50 Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	12437	11/16/21 10:12	CH	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 19:57	CH	XEN MID

Client Sample ID: SW-3

Date Collected: 11/15/21 14:00

Lab Sample ID: 890-1575-8

Matrix: Solid

Date Collected: 11/15/21 14:00 Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 03:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12468	11/16/21 14:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12466	11/16/21 19:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12437	11/16/21 10:12	CH	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 20:02	CH	XEN MID

Client Sample ID: BH-6

Date Collected: 11/15/21 14:05

Lab Sample ID: 890-1575-9

Matrix: Solid

Date Collected: 11/15/21 14:05 Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 04:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12468	11/16/21 14:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12466	11/16/21 20:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12437	11/16/21 10:12	CH	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 20:07	CH	XEN MID

Client Sample ID: BH-7

Date Collected: 11/15/21 14:15

Lab Sample ID: 890-1575-10

Matrix: Solid

Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 04:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12468	11/16/21 14:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12466	11/16/21 20:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12437	11/16/21 10:12	CH	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 20:12	CH	XEN MID

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1 SDG: 11220758

Lab Sample ID: 890-1575-11

**Matrix: Solid** 

**Client Sample ID: BH-8** Date Collected: 11/15/21 14:35

Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 06:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12468	11/16/21 14:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12466	11/16/21 21:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12437	11/16/21 10:12	CH	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 20:17	CH	XEN MID

**Client Sample ID: BH-9** Lab Sample ID: 890-1575-12 Date Collected: 11/15/21 14:45 **Matrix: Solid** 

Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 06:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12468	11/16/21 14:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12466	11/16/21 21:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	12437	11/16/21 10:12	CH	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 20:31	CH	XEN MID

Client Sample ID: SW-4 Lab Sample ID: 890-1575-13 Date Collected: 11/15/21 15:00 **Matrix: Solid** 

Date Received: 11/15/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12430	11/16/21 09:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/17/21 06:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/17/21 16:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12468	11/16/21 14:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12466	11/16/21 21:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12437	11/16/21 10:12	СН	XEN MID
Soluble	Analysis	300.0		1			12500	11/16/21 20:36	CH	XEN MID

**Laboratory References:** 

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Accreditation/Certification Summary**

Client: GHD Services Inc.

Job ID: 890-1575-1

Project/Site: Madison Fee COM #1

SDG: 11220758

# **Laboratory: Eurofins Xenco, Midland**

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

Authority	P	Program	Identification Number	Expiration Date
Texas	N	NELAP	T104704400-21-22	06-30-22
The following analyte the agency does not		port, but the laboratory is r	ot certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

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# **Method Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1

SDG: 11220758

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

#### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### **Laboratory References:**

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Sample Summary**

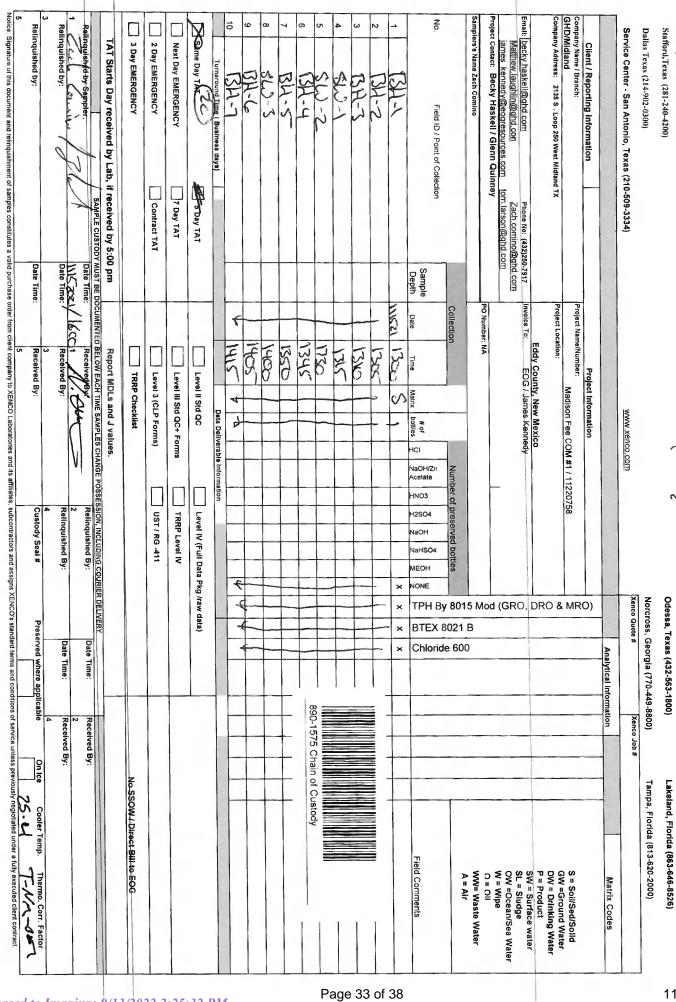
Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1575-1

SDG: 11220758

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1575-1	BH-1	Solid	11/15/21 13:00	11/15/21 16:00
890-1575-2	BH-2	Solid	11/15/21 13:05	11/15/21 16:00
890-1575-3	BH-3	Solid	11/15/21 13:10	11/15/21 16:00
890-1575-4	SW-1	Solid	11/15/21 13:15	11/15/21 16:00
890-1575-5	SW-2	Solid	11/15/21 13:30	11/15/21 16:00
890-1575-6	BH-4	Solid	11/15/21 13:45	11/15/21 16:00
890-1575-7	BH-5	Solid	11/15/21 13:50	11/15/21 16:00
890-1575-8	SW-3	Solid	11/15/21 14:00	11/15/21 16:00
890-1575-9	BH-6	Solid	11/15/21 14:05	11/15/21 16:00
890-1575-10	BH-7	Solid	11/15/21 14:15	11/15/21 16:00
890-1575-11	BH-8	Solid	11/15/21 14:35	11/15/21 16:00
890-1575-12	BH-9	Solid	11/15/21 14:45	11/15/21 16:00
890-1575-13	SW-4	Solid	11/15/21 15:00	11/15/21 16:00



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SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil				Mod (GRO, D					-	edy	EOG / James Kennedy	Jame	EOG.		Invoice To: PO Number: NA		Phone No: (432)250-7917 Zach.comino@ghd.com tom.larson@ghd.com	1 13 1	l Jenn Quin	Email: becky.haskell@ghd.com Matthew.laughlin@ghd.con james kennedy@eogresources.com tol Project Contact: Becky Haskell / Glenn Quinney	ky.haskel thew.laug es kenne tact: Bec	all: bec Mat jam ject Con	8 5
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Tampa, Florida (813-620-2000)	3-8800)	Norcross, Georgia (770-449-8800)	cross,	Nor																Dallas Texas (214-902-0300)	Texas (214	Dallas	
Lakeland, Florida (863-646-8526)	00)	Odessa, Texas (432-563-1800)	essa, Te	Og .				1,	^	1									990	Stafford, Texas (281-240-4200)	, Texas (2	Stafford	
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**Eurofins Xenco, Carlsbad** 

🖏 eurofins

Environment Testing America

**Chain of Custody Record** 

Carlsbad NM 88220	_	Citatil of Custody Record	Custo	uy Ke	Coru													An	America	
Phone 575-988-3199 Fax 575-988-3199	Sampler			ah DM												3				
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Company Eurofins Xenco				N A	Accreditations Required (See note) NELAP - Louisiana NELAP	Require	d (See note		Texas	ł		l	l			Job #	Job#: 890-1575-1			
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BH-3 (890-1575-3)	11/15/21	13 10 Mountain		Solid	×	×	×	×							-					
SW-1 (890-1575-4)	11/15/21	13 15 Mountain		Solid	×	×	×	×												
SW-2 (890-1575-5)	11/15/21	13 30 Mountain		Solid	×	×	×	×												
BH-4 (890-1575-6)	11/15/21	13.45 Mountain		Solid	×	×	×	×								CHLA				
BH-5 (890-1575-7)	11/15/21	13 50 Mountain		Solid	×	×	×	×							4					
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BH-6 (890-1575-9)	11/15/21	14 05 Mountain		Solid	×	×	×	×							٠.,	C8C/3				
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alaboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	laces the ownership leing analyzed the sa signed Chain of Cus	of method analyte imples must be sh stody attesting to s	e & accreditation hipped back to the said complicance	n compliance u he Eurofins Xer e to Eurofins X	pon out sub nco LLC lab enco LLC.	contract oratory	laborat	lories	This sam tions will	ple ship be prov	oment i	s forwa Any ch	rded u	nder ch	nain-of editatio	-custo on stat	dy If the labora tus should be br	atory do	nes not currently o Eurofins Xenco LLC	
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Ver: 06/08/2021

1089 N Canal St.

Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

**Eurofins Xenco, Carlsbad** 

# **Chain of Custody Record**

Priore.    E-Mail   E	ormation (Sub Contract Lab)	C as a		Callel Hacking No(s)	CCNo
Company Name   Comp	On SAMP SOUTH COC MAN	E-Mail			Page
Elevation Xero	SCINIIG	aebbi			Page 2 of 2
Analysis Requested   Analysi	nco	:	- T- "	œ €	Job #: 890-1575-1
Michael   Mich					Preservation Codes
Control of Column   Control of Column   Column	TAT Requested (days).				A HCL M Hexane
Tax 79701   Tax					Zn Acetate O Nitric Acid P
Procedure   Proposition   Pr		10 to 10 to	NM		NaHSO4
Sample   S			TPH - -P pre		Amchlor S
Sample Identification - Citient ID (Lab ID)	WO#		p Full k jar/l	Delita C	lce DI Water
Madision Fee COM#1   Section   Sec	Project #		Pre (bu	ners	8
Sample   Martin   Sample   Sample   Martin   Sample   S			es d I_S_I TEX (	ntain	Z
Sample Identification - Client ID (Lab ID)	SSOW#:		ISD (Y B015NM Calc B BD/DI_L		Other:
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BH-9 (890-1575-12)  BH-9 (	Sample Date	S=Solid, O=waste/oil, BT=Tissue, A=Air)	Perfo 8015M 8021B 300_O 8015M	rotal	Special instructions/Note:
BH7 (880-1575-10)		0	X	X	
BH-B (B80-1575-11)	11/15/21	Solid	× × ×		
BH-9 (890-1575-12)    Author	11/15/21		×	7000 7 7 8 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s
SWL4 (890-1575-13)    11/15/21   15 00   Mountain   Mou	11/15/21		×		
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Custody Seal No		Company	Received by:	Date/Time	Company
· · · · · · · · · · · · · · · · · · ·	eals Intact: Custody Seal No		Cooler Temperature(s) °C and Other Remarks	narks	

Environment Testing America

Ver: 06/08/2021

11/18/2021

### **Login Sample Receipt Checklist**

Client: GHD Services Inc. Job Number: 890-1575-1 SDG Number: 11220758

Login Number: 1575 List Source: Eurofins Xenco, Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

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

### **Login Sample Receipt Checklist**

Client: GHD Services Inc. Job Number: 890-1575-1 SDG Number: 11220758

Login Number: 1575 List Source: Eurofins Xenco, Midland List Number: 2 List Creation: 11/16/21 01:15 PM

Creator: Rodriguez, Leticia

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

# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1578-1

Laboratory Sample Delivery Group: 11220758 Client Project/Site: Madison Fee COM #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

MEAMER

Authorized for release by: 11/18/2021 8:56:43 PM Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

Designee for

Debbie Simmons, Project Manager (832)986-6768 debbie.simmons@eurofinset.com

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

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



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www.eurofinsus.com/Env

Released to Imaging: 9/13/2022 2:25:32 PM

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Client: GHD Services Inc.

Laboratory Job ID: 890-1578-1

Project/Site: Madison Fee COM #1

SDG: 11220758

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QC Sample Results	17
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#### **Definitions/Glossary**

Client: GHD Services Inc. Job ID: 890-1578-1 Project/Site: Madison Fee COM #1

SDG: 11220758

#### **Qualifiers**

GC VOA	
Qualifier	

F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

**Qualifier Description** 

Qualifier Description
LCS and/or LCSD is outside acceptance limits, low biased.
LCS/LCSD RPD exceeds control limits.
Compound was found in the blank and sample.
Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Surrogate recovery exceeds control limits, high biased.
Indicates the analyte was analyzed for but not detected.
Qualifier Description

U

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)

Indicates the analyte was analyzed for but not detected.

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum 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 **Quality Control** QC

**RER** Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1578-1

SDG: 11220758

Job ID: 890-1578-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1578-1

#### Receipt

The samples were received on 11/16/2021 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 23.0°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12527 and analytical batch 880-12499 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH-10 (890-1578-1), BH-11 (890-1578-2), BH-16 (890-1578-10) and (MB 880-12503/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The method blank for preparation batch 880-12504 and analytical batch 880-12507 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-12504 and analytical batch 880-12507 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

#### HPLC/IC

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

# **Client Sample Results**

Client: GHD Services Inc. Project/Site: Madison Fee COM #1 Job ID: 890-1578-1

SDG: 11220758

**Client Sample ID: BH-10** 

Date Collected: 11/16/21 13:05 Date Received: 11/16/21 15:15

Lab Sample ID: 890-1578-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000855	J	0.00199	0.000383	mg/Kg		11/17/21 10:11	11/17/21 20:16	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		11/17/21 10:11	11/17/21 20:16	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		11/17/21 10:11	11/17/21 20:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		11/17/21 10:11	11/17/21 20:16	1
o-Xylene	0.000394	J	0.00199	0.000343	mg/Kg		11/17/21 10:11	11/17/21 20:16	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		11/17/21 10:11	11/17/21 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				11/17/21 10:11	11/17/21 20:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/17/21 10:11	11/17/21 20:16	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00125	J	0.00398	0.00101	mg/Kg			11/18/21 16:13	1
<del>_</del>									
<del>_</del>	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier	RL 49.8	MDL 14.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/17/21 13:26	
Analyte Total TPH	Result   <49.8	Qualifier U				<u>D</u>	Prepared		
Analyte Total TPH  Method: 8015B NM - Diesel Rang	Result <49.8	Qualifier U			mg/Kg	D_	Prepared Prepared		1
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte	Result <49.8	Qualifier U RO) (GC) Qualifier	49.8	14.9	mg/Kg			11/17/21 13:26	1 Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8  ge Organics (Di Result <49.8	Qualifier U  RO) (GC) Qualifier U	49.8 RL 49.8	14.9 MDL 14.9	mg/Kg  Unit mg/Kg		Prepared 11/17/21 09:56	11/17/21 13:26  Analyzed  11/17/21 16:50	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8  ge Organics (DI Result	Qualifier U  RO) (GC) Qualifier U	49.8	14.9 MDL 14.9	mg/Kg		Prepared	11/17/21 13:26  Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.8	Qualifier U  RO) (GC) Qualifier U	49.8 RL 49.8 49.8	14.9 MDL 14.9 14.9	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/17/21 09:56 11/17/21 09:56	11/17/21 13:26  Analyzed  11/17/21 16:50  11/17/21 16:50	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8  ge Organics (Di Result <49.8	Qualifier U  RO) (GC) Qualifier U	49.8 RL 49.8	14.9 MDL 14.9 14.9	mg/Kg  Unit mg/Kg		Prepared 11/17/21 09:56	11/17/21 13:26  Analyzed  11/17/21 16:50	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <49.8	Qualifier U  RO) (GC) Qualifier U  U	49.8  RL 49.8  49.8  49.8  Limits	14.9 MDL 14.9 14.9	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/17/21 09:56 11/17/21 09:56 11/17/21 09:56 Prepared	Analyzed 11/17/21 13:26  Analyzed 11/17/21 16:50 11/17/21 16:50 Analyzed	1 Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.8	Qualifier U  RO) (GC) Qualifier U  U	49.8 RL 49.8 49.8 49.8	14.9 MDL 14.9 14.9	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/17/21 09:56 11/17/21 09:56 11/17/21 09:56	Analyzed 11/17/21 16:50 11/17/21 16:50 11/17/21 16:50	Dil Face 1 1 1 Dil Face
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <49.8	Qualifier U  RO) (GC) Qualifier U  U	49.8  RL 49.8  49.8  49.8  Limits	14.9 MDL 14.9 14.9	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/17/21 09:56 11/17/21 09:56 11/17/21 09:56 Prepared	Analyzed 11/17/21 13:26  Analyzed 11/17/21 16:50 11/17/21 16:50 Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.8	Qualifier U  RO) (GC) Qualifier U  U  Qualifier	49.8  RL 49.8  49.8  49.8  49.8  Limits  70 - 130	14.9 MDL 14.9 14.9	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/17/21 09:56 11/17/21 09:56 11/17/21 09:56 Prepared 11/17/21 09:56	Analyzed 11/17/21 16:50 11/17/21 16:50 11/17/21 16:50 Analyzed 11/17/21 16:50	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8  ge Organics (D) Result <49.8 <49.8 <49.8  %Recovery 106 127  omatography -	Qualifier U  RO) (GC) Qualifier U  U  Qualifier	49.8  RL 49.8  49.8  49.8  49.8  Limits  70 - 130	14.9 MDL 14.9 14.9	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/17/21 09:56 11/17/21 09:56 11/17/21 09:56 Prepared 11/17/21 09:56	Analyzed 11/17/21 16:50 11/17/21 16:50 11/17/21 16:50 Analyzed 11/17/21 16:50	Dil Fac  1  Dil Fac  1  1  Dil Fac  1  Dil Fac  1  Dil Fac

**Client Sample ID: BH-11** Lab Sample ID: 890-1578-2 Date Collected: 11/16/21 13:10 **Matrix: Solid** 

Date Received: 11/16/21 15:15

	nic Compounds (	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		11/17/21 10:11	11/17/21 20:36	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		11/17/21 10:11	11/17/21 20:36	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		11/17/21 10:11	11/17/21 20:36	1
m-Xylene & p-Xylene	0.00125	J	0.00399	0.00101	mg/Kg		11/17/21 10:11	11/17/21 20:36	1
o-Xylene	0.00118	J	0.00200	0.000343	mg/Kg		11/17/21 10:11	11/17/21 20:36	1
Xylenes, Total	0.00243	J	0.00399	0.00101	mg/Kg		11/17/21 10:11	11/17/21 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/17/21 10:11	11/17/21 20:36	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/17/21 10:11	11/17/21 20:36	1

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1578-1

SDG: 11220758

**Client Sample ID: BH-11** 

Date Collected: 11/16/21 13:10 Date Received: 11/16/21 15:15 Lab Sample ID: 890-1578-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00243	J	0.00399	0.00101	mg/Kg			11/18/21 16:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	15.0	mg/Kg			11/17/21 13:26	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	15.0	mg/Kg		11/17/21 09:56	11/17/21 17:12	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9	15.0	mg/Kg		11/17/21 09:56	11/17/21 17:12	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/17/21 09:56	11/17/21 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				11/17/21 09:56	11/17/21 17:12	1
o-Terphenyl	140	S1+	70 - 130				11/17/21 09:56	11/17/21 17:12	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.99	0.857	mg/Kg			11/18/21 09:28	

**Client Sample ID: SW-5** Lab Sample ID: 890-1578-3 **Matrix: Solid** 

Date Collected: 11/16/21 13:15

Date Received: 11/16/21 15:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00116	J	0.00200	0.000386	mg/Kg		11/17/21 10:11	11/17/21 20:57	
Toluene	0.000734	J	0.00200	0.000457	mg/Kg		11/17/21 10:11	11/17/21 20:57	
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		11/17/21 10:11	11/17/21 20:57	
m-Xylene & p-Xylene	0.00144	J	0.00401	0.00101	mg/Kg		11/17/21 10:11	11/17/21 20:57	
o-Xylene	0.00173	J	0.00200	0.000345	mg/Kg		11/17/21 10:11	11/17/21 20:57	
Xylenes, Total	0.00317	J	0.00401	0.00101	mg/Kg		11/17/21 10:11	11/17/21 20:57	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130				11/17/21 10:11	11/17/21 20:57	
	102		70 <sub>-</sub> 130				11/17/21 10:11	11/17/21 20:57	
1,4-Difluorobenzene (Surr)  Method: Total BTEX - Total BT  Analyte	EX Calculation	Qualifier		MDL	Unit	D			
			70 - 130				11/11//21 10.11	11/11/21 20.0/	
	EX Calculation	Qualifier	RL 0.00401	MDL 0.00101		<u>D</u>	Prepared	Analyzed 11/18/21 16:13	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	EX Calculation Result 0.00506	<u>·</u>	RL			<u>D</u>		Analyzed	Dil Fa
Method: Total BTEX - Total BT Analyte	EX Calculation Result 0.00506 ge Organics (DR	<u>·</u>	RL	0.00101		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	EX Calculation Result 0.00506 ge Organics (DR	O) (GC) Qualifier	RL 0.00401	0.00101	mg/Kg		Prepared	Analyzed 11/18/21 16:13	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result 0.00506  ge Organics (DRO Result <a href="#">Result</a> <a href="#">&lt;49.9</a>	O) (GC) Qualifier		0.00101 <b>MDL</b>	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fa
Method: Total BTEX - Total BT Analyte Total BTEX  Method: 8015 NM - Diesel Ran Analyte Total TPH	Result 0.00506  ge Organics (DR) Result <a href="#"><a  td=""><td>O) (GC) Qualifier</td><td></td><td>0.00101 MDL 15.0</td><td>mg/Kg</td><td></td><td>Prepared</td><td>Analyzed 11/18/21 16:13 Analyzed</td><td>Dil Fa</td></a<></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	O) (GC) Qualifier		0.00101 MDL 15.0	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fa
Method: Total BTEX - Total BT Analyte Total BTEX  Method: 8015 NM - Diesel Ran Analyte Total TPH  Method: 8015B NM - Diesel Ra	Result 0.00506  ge Organics (DR) Result <a href="#"><a  td=""><td>Qualifier U RO) (GC) Qualifier</td><td>RL 0.00401 RL 49.9</td><td>0.00101 MDL 15.0</td><td>mg/Kg  Unit mg/Kg  Unit</td><td> <u>D</u></td><td>Prepared Prepared</td><td>Analyzed 11/18/21 16:13  Analyzed 11/17/21 13:26</td><td>Dil Fa</td></a<></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	Qualifier U RO) (GC) Qualifier	RL 0.00401 RL 49.9	0.00101 MDL 15.0	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	Analyzed 11/18/21 16:13  Analyzed 11/17/21 13:26	Dil Fa

Job ID: 890-1578-1 SDG: 11220758

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Lab Sample ID: 890-1578-3

Matrix: Solid

Client Sample ID: SW-	5
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Date Collected: 11/16/21 13:15 Date Received: 11/16/21 15:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/17/21 09:56	11/17/21 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/17/21 09:56	11/17/21 17:54	1
o-Terphenyl	114		70 <sub>-</sub> 130				11/17/21 09:56	11/17/21 17:54	1

Analyte	Result Q		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.6	4.98	0.855	mg/Kg			11/18/21 09:35	1

**Client Sample ID: SW-6** Lab Sample ID: 890-1578-4

·	•	
Date Collected: 11/16/21 13:20		Matrix: Solid
Date Received: 11/16/21 15:15		

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000526	J	0.00199	0.000383	mg/Kg		11/17/21 10:11	11/17/21 21:17	1
Toluene	0.000486	J	0.00199	0.000453	mg/Kg		11/17/21 10:11	11/17/21 21:17	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		11/17/21 10:11	11/17/21 21:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		11/17/21 10:11	11/17/21 21:17	1
o-Xylene	< 0.00199	U	0.00199	0.000342	mg/Kg		11/17/21 10:11	11/17/21 21:17	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		11/17/21 10:11	11/17/21 21:17	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				11/17/21 10:11	11/17/21 21:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130				11/17/21 10:11	11/17/21 21:17	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00101	J	0.00398	0.00100	mg/Kg			11/18/21 16:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 18:15	1
Diesel Range Organics (Over	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 18:15	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/17/21 09:56	11/17/21 18:15	1
o-Terphenyl	117		70 - 130				11/17/21 09:56	11/17/21 18:15	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		4.97	0.853	mg/Kg			11/18/21 09:43	1

Job ID: 890-1578-1

Client: GHD Services Inc. Project/Site: Madison Fee COM #1 SDG: 11220758

**Client Sample ID: BH-12** Lab Sample ID: 890-1578-5

Date Collected: 11/16/21 13:25 Matrix: Solid Date Received: 11/16/21 15:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.000388	J	0.00200	0.000384	mg/Kg		11/17/21 10:11	11/17/21 21:37	
Toluene	0.000582	J	0.00200	0.000455	mg/Kg		11/17/21 10:11	11/17/21 21:37	
Ethylbenzene	0.00147	J	0.00200	0.000564	mg/Kg		11/17/21 10:11	11/17/21 21:37	
m-Xylene & p-Xylene	0.00121	J	0.00399	0.00101	mg/Kg		11/17/21 10:11	11/17/21 21:37	
o-Xylene	0.00135	J	0.00200	0.000343	mg/Kg		11/17/21 10:11	11/17/21 21:37	
Xylenes, Total	0.00256	J	0.00399	0.00101	mg/Kg		11/17/21 10:11	11/17/21 21:37	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	117		70 - 130				11/17/21 10:11	11/17/21 21:37	
1,4-Difluorobenzene (Surr)	86		70 - 130				11/17/21 10:11	11/17/21 21:37	
Method: Total BTEX - Total BTEX	( Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.00500		0.00399	0.00101	mg/Kg			11/18/21 16:13	,
Mathadi 2045 NM Diagal Danga	Ormaniae (DD)	0) (00)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_	•	Qualifier	RL 50.0		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/17/21 13:26	Dil Fac
Analyte	Result   <50.0	Qualifier U				<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U			mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	15.0 <b>MDL</b>	mg/Kg			11/17/21 13:26	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  Ge Organics (DI Result	Qualifier U  RO) (GC) Qualifier U	50.0	15.0 MDL 15.0	mg/Kg		Prepared	11/17/21 13:26  Analyzed	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10	Result <50.0  Ge Organics (Dige Result <50.0)	Qualifier U  RO) (GC) Qualifier U	50.0 RL 50.0	15.0 MDL 15.0 15.0	mg/Kg  Unit mg/Kg		Prepared 11/17/21 09:56	11/17/21 13:26  Analyzed  11/17/21 18:36	
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  RO) (GC) Qualifier U  U	50.0 RL 50.0	15.0 MDL 15.0 15.0	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/17/21 09:56 11/17/21 09:56	11/17/21 13:26  Analyzed  11/17/21 18:36  11/17/21 18:36	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  RO) (GC) Qualifier U  U	50.0 RL 50.0 50.0 50.0	15.0 MDL 15.0 15.0	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/17/21 09:56 11/17/21 09:56 11/17/21 09:56	Analyzed 11/17/21 18:36 11/17/21 18:36 11/17/21 18:36	Dil Fa

**Client Sample ID: SW-7** Lab Sample ID: 890-1578-6

RL

4.95

MDL Unit

0.850 mg/Kg

D

Prepared

Analyzed

11/18/21 10:05

Dil Fac

**Matrix: Solid** 

Result Qualifier

97.8

Date Collected: 11/16/21 13:30 Date Received: 11/16/21 15:15

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		11/17/21 10:11	11/17/21 21:58	1
Toluene	0.00135	J	0.00201	0.000459	mg/Kg		11/17/21 10:11	11/17/21 21:58	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		11/17/21 10:11	11/17/21 21:58	1
m-Xylene & p-Xylene	0.00199	J	0.00402	0.00102	mg/Kg		11/17/21 10:11	11/17/21 21:58	1
o-Xylene	0.000372	J	0.00201	0.000346	mg/Kg		11/17/21 10:11	11/17/21 21:58	1
Xylenes, Total	0.00236	J	0.00402	0.00102	mg/Kg		11/17/21 10:11	11/17/21 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/17/21 10:11	11/17/21 21:58	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/17/21 10:11	11/17/21 21:58	1

#### **Client Sample Results**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1578-1

SDG: 11220758

**Client Sample ID: SW-7** 

Date Collected: 11/16/21 13:30 Date Received: 11/16/21 15:15

Lab Sample ID: 890-1578-6

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00371	J	0.00402	0.00102	mg/Kg			11/18/21 16:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.5	J	50.0	15.0	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diesel Rang	e Organics (DI	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 18:57	1
(GRO)-C6-C10									
Diesel Range Organics (Over	16.5	J	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 18:57	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/17/21 09:56	11/17/21 18:57	1
o-Terphenyl	112		70 - 130				11/17/21 09:56	11/17/21 18:57	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.3		4.95	0.850	mg/Kg			11/18/21 10:12	

**Client Sample ID: BH-13** Lab Sample ID: 890-1578-7

Date Collected: 11/16/21 14:00

Date Received: 11/16/21 15:15

Released to Imaging: 9/13/2022 2:25:32 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000606	J F1	0.00198	0.000382	mg/Kg		11/17/21 11:06	11/18/21 08:08	1
Toluene	<0.00198	U F1	0.00198	0.000452	mg/Kg		11/17/21 11:06	11/18/21 08:08	1
Ethylbenzene	<0.00198	U F1	0.00198	0.000561	mg/Kg		11/17/21 11:06	11/18/21 08:08	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397	0.00100	mg/Kg		11/17/21 11:06	11/18/21 08:08	1
o-Xylene	0.000510	J F1	0.00198	0.000341	mg/Kg		11/17/21 11:06	11/18/21 08:08	1
Xylenes, Total	<0.00397	U F1	0.00397	0.00100	mg/Kg		11/17/21 11:06	11/18/21 08:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				11/17/21 11:06	11/18/21 08:08	1
1,4-Difluorobenzene (Surr)  Method: Total BTEX - Total BTEX (	110		70 - 130				11/17/21 11:06	11/18/21 08:08	;
Method: Total BTEX - Total BTEX ( Analyte	Calculation	Qualifier	70 - 130  RL 0.00397	MDL 0.00100	Unit mg/Kg	<u>D</u>	11/17/21 11:06 Prepared	11/18/21 08:08  Analyzed  11/18/21 16:13	Dil Fac
Method: Total BTEX - Total BTEX (	Calculation Result 0.00112 Organics (DR	J	RL		mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BTEX ( Analyte Total BTEX  Method: 8015 NM - Diesel Range C	Calculation Result 0.00112 Organics (DR	J O) (GC) Qualifier	RL 0.00397	0.00100	mg/Kg		Prepared	Analyzed 11/18/21 16:13	Dil Fac
Method: Total BTEX - Total BTEX ( Analyte Total BTEX  Method: 8015 NM - Diesel Range C Analyte	Calculation Result 0.00112  Organics (DRO Result <50.0	J O) (GC) Qualifier U		0.00100 <b>MDL</b>	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BTEX ( Analyte Total BTEX  Method: 8015 NM - Diesel Range C Analyte Total TPH	Calculation Result 0.00112  Organics (DRO Result <50.0  Organics (D	J O) (GC) Qualifier U		0.00100 MDL 15.0	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BTEX ( Analyte Total BTEX  Method: 8015 NM - Diesel Range C Analyte Total TPH  Method: 8015B NM - Diesel Range	Calculation Result 0.00112  Organics (DRO Result <50.0  Organics (D	J O) (GC) Qualifier U RO) (GC) Qualifier	RL 0.00397 RL 50.0	0.00100 MDL 15.0	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 11/18/21 16:13  Analyzed 11/17/21 13:26	Dil Fac

Eurofins Xenco, Carlsbad

**Matrix: Solid** 

Job ID: 890-1578-1

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

SDG: 11220758

**Client Sample ID: BH-13** Date Collected: 11/16/21 14:00 Date Received: 11/16/21 15:15

Lab Sample ID: 890-1578-7

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/17/21 09:56	11/17/21 19:18	1
o-Terphenyl	123		70 - 130				11/17/21 09:56	11/17/21 19:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 175 4.96 0.851 mg/Kg 11/18/21 10:20

Client Sample ID: BH-14 Lab Sample ID: 890-1578-8

Date Collected: 11/16/21 14:05 Date Received: 11/16/21 15:15

**Matrix: Solid** 

Method: 8021B - Volatile Orga	nic Compounds (	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/17/21 11:06	11/18/21 08:28	1
Toluene	0.000787	J	0.00200	0.000456	mg/Kg		11/17/21 11:06	11/18/21 08:28	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/17/21 11:06	11/18/21 08:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/17/21 11:06	11/18/21 08:28	1
o-Xylene	0.000695	J	0.00200	0.000344	mg/Kg		11/17/21 11:06	11/18/21 08:28	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/17/21 11:06	11/18/21 08:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 _ 130				11/17/21 11:06	11/18/21 08:28	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/17/21 11:06	11/18/21 08:28	1

Method: Total BTEX - Total BTEX Calcu	ılation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00148	J	0.00400	0.00101	mg/Kg			11/18/21 16:13	1

Method: 8015 NM - Diesel Range O	rganics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.3	J	49.8	14.9	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	14.9	mg/Kg		11/17/21 09:56	11/17/21 19:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	17.3	J	49.8	14.9	mg/Kg		11/17/21 09:56	11/17/21 19:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		11/17/21 09:56	11/17/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	11/17/21 09:56	11/17/21 19:39	1
o-Terphenyl	115		70 - 130	11/17/21 09:56	11/17/21 19:39	1

Method: 300.0 - Anions, Ion Chrom	atography - S	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.4		5.02	0.862	mg/Kg			11/18/21 10:27	1

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11/18/2021

Job ID: 890-1578-1

Client: GHD Services Inc. Project/Site: Madison Fee COM #1 SDG: 11220758

**Client Sample ID: BH-15** 

Date Collected: 11/16/21 14:10 Date Received: 11/16/21 15:15

Lab Sample ID: 890-1578-9

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000985	J	0.00200	0.000384	mg/Kg		11/17/21 11:06	11/18/21 08:49	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		11/17/21 11:06	11/18/21 08:49	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		11/17/21 11:06	11/18/21 08:49	1
m-Xylene & p-Xylene	0.00145	J	0.00399	0.00101	mg/Kg		11/17/21 11:06	11/18/21 08:49	1
o-Xylene	0.000409	J	0.00200	0.000343	mg/Kg		11/17/21 11:06	11/18/21 08:49	1
Xylenes, Total	0.00186	J	0.00399	0.00101	mg/Kg		11/17/21 11:06	11/18/21 08:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				11/17/21 11:06	11/18/21 08:49	1
1,4-Difluorobenzene (Surr)	123		70 - 130				11/17/21 11:06	11/18/21 08:49	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00284	J	0.00399	0.00101	mg/Kg			11/18/21 16:13	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.3	J	49.9	15.0	mg/Kg			11/17/21 13:26	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Decult				Unit	D	Prepared	Amalumad	
	Result	Qualifier	RL	MDL	Oilit	U	riepaieu	Analyzed	Dil Fac
Gasoline Range Organics	<del>Kesuit</del>		49.9	15.0	mg/Kg	=	11/17/21 09:56	11/17/21 19:59	Dil Fac
Gasoline Range Organics (GRO)-C6-C10							<u> </u>		
(GRO)-C6-C10 Diesel Range Organics (Over		U		15.0		=	<u> </u>		
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)	<49.9 <b>28.3</b>	U J	49.9	15.0 15.0	mg/Kg mg/Kg	=	11/17/21 09:56 11/17/21 09:56	11/17/21 19:59	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U J	49.9	15.0 15.0	mg/Kg		11/17/21 09:56	11/17/21 19:59	1
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)	<49.9 <b>28.3</b>	J U	49.9	15.0 15.0	mg/Kg mg/Kg		11/17/21 09:56 11/17/21 09:56 11/17/21 09:56 Prepared	11/17/21 19:59 11/17/21 19:59 11/17/21 19:59 Analyzed	1
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)	<49.9 28.3 <49.9	J U	49.9 49.9 49.9	15.0 15.0	mg/Kg mg/Kg		11/17/21 09:56 11/17/21 09:56 11/17/21 09:56	11/17/21 19:59 11/17/21 19:59 11/17/21 19:59	1 1

Client Sample ID: BH-16 Lab Sample ID: 890-1578-10 Date Collected: 11/16/21 14:15 **Matrix: Solid** 

RL

4.98

MDL Unit

0.855 mg/Kg

D

Prepared

Analyzed

11/18/21 10:34

Dil Fac

Result Qualifier

18.7

Date Received: 11/16/21 15:15

Analyte

Chloride

Method: 300.0 - Anions, Ion Chromatography - Soluble

Method: 8021B - Volatile Orga Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte									Dil Fac
Benzene	0.00165	J	0.00199	0.000383	mg/Kg		11/17/21 11:06	11/18/21 09:09	1
Toluene	0.000473	J	0.00199	0.000454	mg/Kg		11/17/21 11:06	11/18/21 09:09	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		11/17/21 11:06	11/18/21 09:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		11/17/21 11:06	11/18/21 09:09	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		11/17/21 11:06	11/18/21 09:09	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		11/17/21 11:06	11/18/21 09:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/17/21 11:06	11/18/21 09:09	1
1,4-Difluorobenzene (Surr)	76		70 - 130				11/17/21 11:06	11/18/21 09:09	1

Eurofins Xenco, Carlsbad

Released to Imaging: 9/13/2022 2:25:32 PM

# **Client Sample Results**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

**Client Sample ID: BH-16** 

Date Collected: 11/16/21 14:15

Job ID: 890-1578-1 SDG: 11220758

Lab Sample ID: 890-1578-10

11/18/21 10:42

Matrix: Solid

<b>Date Received:</b>	11/16/21	15:15	
•			

						Prepared	Analyzed	Dil Fac
0.00212	J	0.00398	0.00101	mg/Kg			11/18/21 16:13	1
Organics (DR	O) (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9	15.0	mg/Kg			11/17/21 13:26	1
e Organics (D	RO) (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9	15.0	mg/Kg		11/17/21 09:56	11/17/21 20:20	1
<49.9	U	49.9	15.0	mg/Kg		11/17/21 09:56	11/17/21 20:20	1
<49.9	U	49.9	15.0	mg/Kg		11/17/21 09:56	11/17/21 20:20	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
114	·	70 - 130				11/17/21 09:56	11/17/21 20:20	1
132	S1+	70 - 130				11/17/21 09:56	11/17/21 20:20	1
	Organics (DRO Result <49.9  Organics (DI Result <49.9  <49.9  <49.9  %Recovery  114	Programics (DRO) (GC) Result Qualifier  <49.9 U  Corganics (DRO) (GC) Result Qualifier  <49.9 U  <49.9 U  Corganics (DRO) (GC) Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Corganics (DRO) (GC)  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)  Corganics (DRO) (GC)  Corganics (DRO) (GC)  Result Qualifier  U  Corganics (DRO) (GC)	Organics (DRO) (GC)           Result          Qualifier         RL            <49.9 U	Organics (DRO) (GC)           Result         Qualifier         RL         MDL           <49.9	Organics (DRO) (GC)           Result         Qualifier         RL         MDL         Unit           <49.9	Organics (DRO) (GC)           Result Qualifier         RL 49.9         MDL mg/Kg         D mg/Kg           e Organics (DRO) (GC)         Result Qualifier         RL MDL Unit mg/Kg         D mg/Kg           <49.9	Organics (DRO) (GC)           Result         Qualifier         RL         MDL         Unit         D         Prepared           <49.9	Organics (DRO) (GC)           Result Qualifier         RL         MDL Unit yday         D         Prepared         Analyzed           49.9 U         49.9 U         15.0 mg/Kg         11/17/21 13:26           Corganics (DRO) (GC)         Result Qualifier         RL         MDL Unit yday         D         Prepared

**Client Sample ID: SW-8** Lab Sample ID: 890-1578-11 **Matrix: Solid** 

4.99

0.857 mg/Kg

84.9

Date Collected: 11/16/21 14:20

Chloride

Date Received: 11/16/21 15:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00166	J	0.00199	0.000383	mg/Kg		11/17/21 11:06	11/18/21 09:30	
Toluene	0.000893	J	0.00199	0.000454	mg/Kg		11/17/21 11:06	11/18/21 09:30	•
Ethylbenzene	0.00178	J	0.00199	0.000563	mg/Kg		11/17/21 11:06	11/18/21 09:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		11/17/21 11:06	11/18/21 09:30	
o-Xylene	0.00183	J	0.00199	0.000343	mg/Kg		11/17/21 11:06	11/18/21 09:30	1
Xylenes, Total	0.00183	J	0.00398	0.00101	mg/Kg		11/17/21 11:06	11/18/21 09:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				11/17/21 11:06	11/18/21 09:30	1
1,4-Difluorobenzene (Surr)	89		70 - 130				11/17/21 11:06	11/18/21 09:30	1
Method: Total BTEX - Total B			70 - 100				7177727 77.00	177027 00.00	
	ΓEX Calculation	Qualifier	RL		Unit	D	Prepared	Analyzed	
Method: Total BTEX - Total B	ΓEX Calculation	Qualifier		<b>MDL</b> 0.00101	Unit mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total BT Analyte	Calculation Result 0.00616		RL			<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	Calculation Result 0.00616  nge Organics (DR		RL	0.00101		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rar	Calculation Result 0.00616  nge Organics (DR	O) (GC) Qualifier	RL 0.00398	0.00101	mg/Kg	=	Prepared	Analyzed 11/18/21 16:13	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rar Analyte	TEX Calculation Result 0.00616 nge Organics (DR Result <49.9	O) (GC) Qualifier	RL 0.00398	0.00101 <b>MDL</b>	mg/Kg	=	Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX  Method: 8015 NM - Diesel Rar Analyte Total TPH	TEX Calculation Result 0.00616 nge Organics (DR Result <49.9 ange Organics (D	O) (GC) Qualifier	RL 0.00398	0.00101 MDL 15.0	mg/Kg	=	Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX  Method: 8015 NM - Diesel Rar Analyte Total TPH  Method: 8015B NM - Diesel Rar	TEX Calculation Result 0.00616 nge Organics (DR Result <49.9 ange Organics (D	O) (GC) Qualifier U  RO) (GC) Qualifier	RL 0.00398	0.00101 MDL 15.0	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 11/18/21 16:13  Analyzed 11/17/21 13:26	Dil Fac

Client: GHD Services Inc. Job ID: 890-1578-1 Project/Site: Madison Fee COM #1 SDG: 11220758

Lab Sample ID: 890-1578-11

Date Collected: 11/16/21 14:20 Date Received: 11/16/21 15:15

Client Sample ID: SW-8

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/17/21 09:56	11/17/21 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/17/21 09:56	11/17/21 20:41	1
o-Terphenyl	120		70 - 130				11/17/21 09:56	11/17/21 20:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Dil Fac D Prepared Analyzed 5.01 11/18/21 11:04 Chloride 149 0.860 mg/Kg

Client Sample ID: SW-9 Lab Sample ID: 890-1578-12 Date Collected: 11/16/21 14:25 **Matrix: Solid** 

Date Received: 11/16/21 15:15

Method: 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte MDL Unit Prepared Analyzed Dil Fac 0.00104 0.00200 0.000386 11/17/21 11:06 11/18/21 09:50 Benzene J mg/Kg Toluene <0.00200 U 0.00200 0.000457 11/17/21 11:06 11/18/21 09:50 mg/Kg Ethylbenzene <0.00200 U 0.00200 0.000566 11/17/21 11:06 11/18/21 09:50 mg/Kg 0.00101 mg/Kg m-Xylene & p-Xylene 0.00401 11/17/21 11:06 11/18/21 09:50 <0.00401 U o-Xylene <0.00200 U 0.00200 0.000345 mg/Kg 11/17/21 11:06 11/18/21 09:50 Xylenes, Total <0.00401 U 0.00401 0.00101 mg/Kg 11/17/21 11:06 11/18/21 09:50 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 4-Bromofluorobenzene (Surr) 70 - 130 11/17/21 11:06 11/18/21 09:50 97 1,4-Difluorobenzene (Surr) 76 70 - 130 11/17/21 11:06 11/18/21 09:50

Method: Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	0.00104	J	0.00401	0.00101	mg/Kg			11/18/21 16:13	1

Method: 8015 NM - Diesel Range C	Organics (DR	O) (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8	14.9	mg/Kg			11/17/21 13:26	1	
Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.8	U	49.8	14.9	mg/Kg		11/17/21 09:56	11/17/21 21:01	1	
(GRO)-C6-C10										

Oll Range Organics (Over C28-C36)	<49.8 U	49.8	14.9 mg/Kg	11/17/21 09:56	11/17/21 21:01	1
Surrogate	%Recovery Qualifier	r Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130		11/17/21 09:56	11/17/21 21:01	1
o-Terphenyl	128	70 - 130		11/17/21 09:56	11/17/21 21:01	1

49.8

14.9 mg/Kg

<49.8 U

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.2		4.97	0.853	mg/Kg			11/18/21 11:11	1

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11/17/21 21:01

11/17/21 09:56

11/18/2021

Diesel Range Organics (Over

C10-C28)

SDG: 11220758

# **Client Sample Results**

Client: GHD Services Inc. Job ID: 890-1578-1 Project/Site: Madison Fee COM #1

**Client Sample ID: SW-10** Lab Sample ID: 890-1578-13

Date Collected: 11/16/21 14:40 Matrix: Solid Date Received: 11/16/21 15:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.000864	J	0.00199	0.000383	mg/Kg		11/17/21 11:06	11/18/21 10:11	
Toluene	0.000477	J	0.00199	0.000453	mg/Kg		11/17/21 11:06	11/18/21 10:11	
Ethylbenzene	< 0.00199	U	0.00199	0.000562	mg/Kg		11/17/21 11:06	11/18/21 10:11	
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		11/17/21 11:06	11/18/21 10:11	
o-Xylene	0.000764	J	0.00199	0.000342	mg/Kg		11/17/21 11:06	11/18/21 10:11	
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		11/17/21 11:06	11/18/21 10:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130				11/17/21 11:06	11/18/21 10:11	
1,4-Difluorobenzene (Surr)	95		70 - 130				11/17/21 11:06	11/18/21 10:11	
Method: Total BTEX - Total BTEX	( Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.00211	J	0.00398	0.00100	mg/Kg			11/18/21 16:13	
Method: 8015 NM - Diesel Range	•		ъ.			_			5.1.5
Analyte		Qualifier	RL -		Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	18.0	J	49.9	15.0	mg/Kg			11/17/21 13:26	•
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics GRO)-C6-C10	<49.9	U *- *1	49.9	15.0	mg/Kg		11/17/21 09:57	11/17/21 17:12	,
Diesel Range Organics (Over C10-C28)	18.0	J B *1	49.9	15.0	mg/Kg		11/17/21 09:57	11/17/21 17:12	•
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/17/21 09:57	11/17/21 17:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	112		70 - 130				11/17/21 09:57	11/17/21 17:12	
o-Terphenyl	128		70 - 130				11/17/21 09:57	11/17/21 17:12	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

# **Surrogate Summary**

Client: GHD Services Inc.

Job ID: 890-1578-1

Project/Site: Madison Fee COM #1

SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1578-1	BH-10	131 S1+	102	
890-1578-2	BH-11	130	97	
890-1578-3	SW-5	100	102	
890-1578-4	SW-6	131 S1+	94	
890-1578-5	BH-12	117	86	
890-1578-6	SW-7	130	96	
890-1578-7	BH-13	132 S1+	110	
890-1578-7 MS	BH-13	118	98	
890-1578-7 MSD	BH-13	115	99	
390-1578-8	BH-14	129	99	
890-1578-9	BH-15	92	123	
890-1578-10	BH-16	121	76	
890-1578-11	SW-8	116	89	
890-1578-12	SW-9	97	76	
390-1578-13	SW-10	106	95	
_CS 880-12436/1-A	Lab Control Sample	118	96	
LCS 880-12527/1-A	Lab Control Sample	116	102	
LCSD 880-12436/2-A	Lab Control Sample Dup	112	98	
LCSD 880-12527/2-A	Lab Control Sample Dup	119	96	
MB 880-12436/5-A	Method Blank	122	103	
MB 880-12499/39	Method Blank	124	103	
MB 880-12527/5-A	Method Blank	119	98	

BFB = 4-Bromofluorobenzene (Surr)

 $\mathsf{DFBZ} = \mathsf{1,4-Difluorobenzene} \; (\mathsf{Surr})$ 

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1578-1	BH-10	106	127	
890-1578-2	BH-11	117	140 S1+	
890-1578-3	SW-5	98	114	
890-1578-4	SW-6	98	117	
890-1578-5	BH-12	99	117	
890-1578-6	SW-7	98	112	
890-1578-7	BH-13	108	123	
890-1578-8	BH-14	99	115	
890-1578-9	BH-15	108	128	
890-1578-10	BH-16	114	132 S1+	
890-1578-11	SW-8	102	120	
890-1578-12	SW-9	107	128	
890-1578-13	SW-10	112	128	
LCS 880-12503/2-A	Lab Control Sample	93	96	
LCS 880-12504/2-A	Lab Control Sample	111	114	
LCSD 880-12503/3-A	Lab Control Sample Dup	118	122	
LCSD 880-12504/3-A	Lab Control Sample Dup	102	85	

OTPH = o-Terphenyl

### **Surrogate Summary**

Client: GHD Services Inc.

Job ID: 890-1578-1

Project/Site: Madison Fee COM #1

SDG: 11220758

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
MB 880-12503/1-A	Method Blank	117	137 S1+	
MB 880-12504/1-A	Method Blank	94	109	
Surrogate Legend				
1CO = 1-Chlorooctane				

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Client: GHD Services Inc.

Job ID: 890-1578-1

Project/Site: Madison Fee COM #1

SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12436/5-A

Matrix: Solid Analysis Batch: 12499 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12436

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/17/21 10:11	11/17/21 13:32	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/17/21 10:11	11/17/21 13:32	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/17/21 10:11	11/17/21 13:32	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/17/21 10:11	11/17/21 13:32	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 12436

Matrix: Solid Analysis Batch: 12499

Lab Sample ID: LCS 880-12436/1-A

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07333 mg/Kg 73 70 - 130 Toluene 0.100 0.08622 mg/Kg 86 70 - 130 0.100 92 Ethylbenzene 0.09167 mg/Kg 70 - 130 0.200 0.1797 90 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.08797 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 12499

Lab Sample ID: LCSD 880-12436/2-A

Prep Type: Total/NA Prep Batch: 12436

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07423		mg/Kg		74	70 - 130	1	35	
Toluene	0.100	0.08825		mg/Kg		88	70 - 130	2	35	
Ethylbenzene	0.100	0.09292		mg/Kg		93	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1800		mg/Kg		90	70 - 130	0	35	
o-Xylene	0.100	0.08949		mg/Kg		89	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: MB 880-12499/39

Matrix: Solid

Analysis Batch: 12499

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

MD

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg			11/18/21 01:06	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg			11/18/21 01:06	1

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Client: GHD Services Inc. Job ID: 890-1578-1 Project/Site: Madison Fee COM #1 SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-12499/39 **Matrix: Solid** 

Analysis Batch: 12499

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 0.00200 Ethylbenzene <0.00200 U 0.000565 11/18/21 01:06 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 0.00101 mg/Kg 11/18/21 01:06 0.00200 o-Xylene <0.00200 U 0.000344 mg/Kg 11/18/21 01:06 Xylenes, Total <0.00400 U 0.00400 0.00101 mg/Kg 11/18/21 01:06

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130		11/18/21 01:06	1
1,4-Difluorobenzene (Surr)	103		70 - 130		11/18/21 01:06	1

Lab Sample ID: MB 880-12527/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 12499 Prep Batch: 12527 мв мв

Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 0.000385 mg/Kg 11/17/21 11:06 11/18/21 07:39 Toluene <0.00200 U 0.00200 0.000456 mg/Kg 11/17/21 11:06 11/18/21 07:39 Ethylbenzene 0.00200 0.000565 mg/Kg 11/18/21 07:39 <0.00200 U 11/17/21 11:06 m-Xylene & p-Xylene 0.00400 0.00101 mg/Kg 11/18/21 07:39 <0.00400 U 11/17/21 11:06 o-Xylene <0.00200 U 0.00200 0.000344 mg/Kg 11/17/21 11:06 11/18/21 07:39 <0.00400 U 0.00400 0.00101 mg/Kg 11/18/21 07:39 Xylenes, Total 11/17/21 11:06

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119	70 - 130	11/17/21 11:06	11/18/21 07:39	1
1,4-Difluorobenzene (Surr)	98	70 - 130	11/17/21 11:06	11/18/21 07:39	1

Lab Sample ID: LCS 880-12527/1-A

**Matrix: Solid** 

**Analysis Batch: 12499** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 12527

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09337		mg/Kg	_	93	70 - 130	
Toluene	0.100	0.09370		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09455		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1902		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.09523		mg/Kg		95	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-12527/2-A

**Matrix: Solid** 

**Analysis Batch: 12499** 

			Prep	Prep Type: Total/NA					
			Prep	Batch:	12527				
			%Rec.		RPD				
Init	D	%Rec	Limits	RPD	Limit				

Client Sample ID: Lab Control Sample Dup

- 1	<b>,</b>									
		Spike	LCSD	LCSD				%Rec.		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	0.100	0.09464		mg/Kg		95	70 - 130	1	35
	Toluene	0.100	0.09786		mg/Kg		98	70 - 130	4	35
	Ethylbenzene	0.100	0.09944		mg/Kg		99	70 - 130	5	35

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Client: GHD Services Inc. Job ID: 890-1578-1 Project/Site: Madison Fee COM #1 SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-12527/2-A

**Matrix: Solid** Analysis Batch: 12499 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12527

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit m-Xylene & p-Xylene 0.200 0.1971 99 70 - 130 35 mg/Kg o-Xylene 0.100 0.09588 mg/Kg 96 70 - 130

LCSD LCSD

Surrogate	%Recovery Qua	alifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Client Sample ID: BH-13

Prep Batch: 12527

Lab Sample ID: 890-1578-7 MS **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 12499 Prep Batch: 12527 %Rec. Sample Sample Spike MS MS

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene 0.000606 JF1 0.100 0.05894 F1 mg/Kg 58 70 - 130 Toluene <0.00198 UF1 0.100 0.06417 F1 mg/Kg 64 70 - 130 0.100 65 Ethylbenzene <0.00198 UF1 0.06532 F1 mg/Kg 70 - 130 m-Xylene & p-Xylene <0.00397 UF1 0.200 0.1243 F1 mg/Kg 62 70 - 130 0.100 0.06261 F1 o-Xylene 0.000510 JF1 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1.4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 890-1578-7 MSD Client Sample ID: BH-13 **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 12499** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.000606	J F1	0.0996	0.08075		mg/Kg		80	70 - 130	31	35
Toluene	<0.00198	U F1	0.0996	0.08534		mg/Kg		86	70 - 130	28	35
Ethylbenzene	<0.00198	U F1	0.0996	0.08084		mg/Kg		81	70 - 130	21	35
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.1611		mg/Kg		81	70 - 130	26	35
o-Xylene	0.000510	JF1	0.0996	0.08006		mg/Kg		80	70 - 130	24	35

MSD MSD

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12503/1-A

**Matrix: Solid** 

**Analysis Batch: 12505** 

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

Prep Batch: 12503

ı		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 12:19	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 12:19	1
	C10-C28)									
	OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:56	11/17/21 12:19	1

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Client: GHD Services Inc.
Project/Site: Madison Fee COM #1

Job ID: 890-1578-1

SDG: 11220758

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	11/17/21 09:56	11/17/21 12:19	1
o-Terphenyl	137	S1+	70 - 130	11/17/21 09:56	11/17/21 12:19	1

Lab Sample ID: LCS 880-12503/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 12505 Prep Batch: 12503

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1069 107 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 931.7 mg/Kg 93 70 - 130 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 93
 70 - 130

 o-Terphenyl
 96
 70 - 130

Lab Sample ID: LCSD 880-12503/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid
Analysis Batch: 12505
Prep Batch: 12503
Prep Batch: 12503

LCSD LCSD %Rec. RPD Spike Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits 1000 20 Gasoline Range Organics 1197 mg/Kg 120 70 - 130 11 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1040 mg/Kg 104 70 - 13011 20 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 118
 70 - 130

 o-Terphenyl
 122
 70 - 130

Lab Sample ID: MB 880-12504/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Matrix: Solid
Analysis Batch: 12507

MB MB

Prep Type: Total/NA
Prep Batch: 12504

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:57	11/17/21 12:19	1
(GRO)-C6-C10									
Diesel Range Organics (Over	16.02	J	50.0	15.0	mg/Kg		11/17/21 09:57	11/17/21 12:19	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/17/21 09:57	11/17/21 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	11/17/21 09:57	11/17/21 12:19	1
o-Terphenyl	109		70 - 130	11/17/21 09:57	11/17/21 12:19	1

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Job ID: 890-1578-1

Client: GHD Services Inc. SDG: 11220758 Project/Site: Madison Fee COM #1

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-12504/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 12507 Prep Batch: 12504

l		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Gasoline Range Organics	1000	647.5	*_	mg/Kg		65	70 - 130	
	(GRO)-C6-C10								
	Diesel Range Organics (Over	1000	726.5		mg/Kg		73	70 - 130	
	C10-C28)								

	LC3 L	C3	
Surrogate	%Recovery Q	ualifier	Limits
1-Chlorooctane			70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-12504/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid Analysis Batch: 12507

•	Culle	LCCD	LCCD				%Rec.		RPD
	Spike	LCSD	LCSD				%Rec.		KPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	848.2	*1	mg/Kg		85	70 - 130	27	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	926.6	*1	mg/Kg		93	70 - 130	24	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 102 70 - 130 o-Terphenyl 85 70 - 130

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12528/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 12602** 

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			11/18/21 08:36	1

Lab Sample ID: LCS 880-12528/2-A Client Sample ID: Lab Control Sample Matrix: Solid **Prep Type: Soluble** 

Analysis Batch: 12602

	<b>Бріке</b>	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	260.1		mg/Kg		104	90 - 110	 

Lab Sample ID: LCSD 880-12528/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 12602

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	259.9		mg/Kg		104	90 - 110	0	20	

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Prep Batch: 12504

Client: GHD Services Inc. Job ID: 890-1578-1 Project/Site: Madison Fee COM #1

SDG: 11220758

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1578-10 MS **Client Sample ID: BH-16 Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 12602

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	84.9		250	317.8		mg/Kg		93	90 - 110	

Lab Sample ID: 890-1578-10 MSD **Client Sample ID: BH-16** Matrix: Solid **Prep Type: Soluble** 

**Analysis Batch: 12602** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	84.9		250	313.8		mg/Kg		92	90 - 110	1	20

# **QC Association Summary**

Client: GHD Services Inc. Job ID: 890-1578-1 Project/Site: Madison Fee COM #1 SDG: 11220758

#### **GC VOA**

#### Prep Batch: 12436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-1	BH-10	Total/NA	Solid	5035	
890-1578-2	BH-11	Total/NA	Solid	5035	
890-1578-3	SW-5	Total/NA	Solid	5035	
890-1578-4	SW-6	Total/NA	Solid	5035	
890-1578-5	BH-12	Total/NA	Solid	5035	
890-1578-6	SW-7	Total/NA	Solid	5035	
MB 880-12436/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12436/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12436/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

#### Analysis Batch: 12499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-1	BH-10	Total/NA	Solid	8021B	12436
890-1578-2	BH-11	Total/NA	Solid	8021B	12436
890-1578-3	SW-5	Total/NA	Solid	8021B	12436
890-1578-4	SW-6	Total/NA	Solid	8021B	12436
890-1578-5	BH-12	Total/NA	Solid	8021B	12436
890-1578-6	SW-7	Total/NA	Solid	8021B	12436
890-1578-7	BH-13	Total/NA	Solid	8021B	12527
890-1578-8	BH-14	Total/NA	Solid	8021B	12527
890-1578-9	BH-15	Total/NA	Solid	8021B	12527
890-1578-10	BH-16	Total/NA	Solid	8021B	12527
890-1578-11	SW-8	Total/NA	Solid	8021B	12527
890-1578-12	SW-9	Total/NA	Solid	8021B	12527
890-1578-13	SW-10	Total/NA	Solid	8021B	12527
MB 880-12436/5-A	Method Blank	Total/NA	Solid	8021B	12436
MB 880-12499/39	Method Blank	Total/NA	Solid	8021B	
MB 880-12527/5-A	Method Blank	Total/NA	Solid	8021B	12527
LCS 880-12436/1-A	Lab Control Sample	Total/NA	Solid	8021B	12436
LCS 880-12527/1-A	Lab Control Sample	Total/NA	Solid	8021B	12527
LCSD 880-12436/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12436
LCSD 880-12527/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12527
890-1578-7 MS	BH-13	Total/NA	Solid	8021B	12527
890-1578-7 MSD	BH-13	Total/NA	Solid	8021B	12527

#### Prep Batch: 12527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-7	BH-13	Total/NA	Solid	5035	
890-1578-8	BH-14	Total/NA	Solid	5035	
890-1578-9	BH-15	Total/NA	Solid	5035	
890-1578-10	BH-16	Total/NA	Solid	5035	
890-1578-11	SW-8	Total/NA	Solid	5035	
890-1578-12	SW-9	Total/NA	Solid	5035	
890-1578-13	SW-10	Total/NA	Solid	5035	
MB 880-12527/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12527/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12527/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1578-7 MS	BH-13	Total/NA	Solid	5035	
890-1578-7 MSD	BH-13	Total/NA	Solid	5035	

# **QC Association Summary**

Client: GHD Services Inc.

Job ID: 890-1578-1

Project/Site: Madison Fee COM #1

SDG: 11220758

**GC VOA** 

Analysis Batch: 12693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-1	BH-10	Total/NA	Solid	Total BTEX	
890-1578-2	BH-11	Total/NA	Solid	Total BTEX	
890-1578-3	SW-5	Total/NA	Solid	Total BTEX	
890-1578-4	SW-6	Total/NA	Solid	Total BTEX	
890-1578-5	BH-12	Total/NA	Solid	Total BTEX	
890-1578-6	SW-7	Total/NA	Solid	Total BTEX	
890-1578-7	BH-13	Total/NA	Solid	Total BTEX	
890-1578-8	BH-14	Total/NA	Solid	Total BTEX	
890-1578-9	BH-15	Total/NA	Solid	Total BTEX	
890-1578-10	BH-16	Total/NA	Solid	Total BTEX	
890-1578-11	SW-8	Total/NA	Solid	Total BTEX	
890-1578-12	SW-9	Total/NA	Solid	Total BTEX	
890-1578-13	SW-10	Total/NA	Solid	Total BTEX	

**GC Semi VOA** 

Prep Batch: 12503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-1	BH-10	Total/NA	Solid	8015NM Prep	
890-1578-2	BH-11	Total/NA	Solid	8015NM Prep	
890-1578-3	SW-5	Total/NA	Solid	8015NM Prep	
890-1578-4	SW-6	Total/NA	Solid	8015NM Prep	
890-1578-5	BH-12	Total/NA	Solid	8015NM Prep	
890-1578-6	SW-7	Total/NA	Solid	8015NM Prep	
890-1578-7	BH-13	Total/NA	Solid	8015NM Prep	
890-1578-8	BH-14	Total/NA	Solid	8015NM Prep	
890-1578-9	BH-15	Total/NA	Solid	8015NM Prep	
890-1578-10	BH-16	Total/NA	Solid	8015NM Prep	
890-1578-11	SW-8	Total/NA	Solid	8015NM Prep	
890-1578-12	SW-9	Total/NA	Solid	8015NM Prep	
MB 880-12503/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12503/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 12504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-13	SW-10	Total/NA	Solid	8015NM Prep	
MB 880-12504/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12504/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-1	BH-10	Total/NA	Solid	8015B NM	12503
890-1578-2	BH-11	Total/NA	Solid	8015B NM	12503
890-1578-3	SW-5	Total/NA	Solid	8015B NM	12503
890-1578-4	SW-6	Total/NA	Solid	8015B NM	12503
890-1578-5	BH-12	Total/NA	Solid	8015B NM	12503
890-1578-6	SW-7	Total/NA	Solid	8015B NM	12503
890-1578-7	BH-13	Total/NA	Solid	8015B NM	12503
890-1578-8	BH-14	Total/NA	Solid	8015B NM	12503

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11/18/2021

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### **QC Association Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1578-1

SDG: 11220758

### GC Semi VOA (Continued)

### Analysis Batch: 12505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-9	BH-15	Total/NA	Solid	8015B NM	12503
890-1578-10	BH-16	Total/NA	Solid	8015B NM	12503
890-1578-11	SW-8	Total/NA	Solid	8015B NM	12503
890-1578-12	SW-9	Total/NA	Solid	8015B NM	12503
MB 880-12503/1-A	Method Blank	Total/NA	Solid	8015B NM	12503
LCS 880-12503/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12503
LCSD 880-12503/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12503

### Analysis Batch: 12507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-13	SW-10	Total/NA	Solid	8015B NM	12504
MB 880-12504/1-A	Method Blank	Total/NA	Solid	8015B NM	12504
LCS 880-12504/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12504
LCSD 880-12504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12504

### Analysis Batch: 12574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-1	BH-10	Total/NA	Solid	8015 NM	
890-1578-2	BH-11	Total/NA	Solid	8015 NM	
890-1578-3	SW-5	Total/NA	Solid	8015 NM	
890-1578-4	SW-6	Total/NA	Solid	8015 NM	
890-1578-5	BH-12	Total/NA	Solid	8015 NM	
890-1578-6	SW-7	Total/NA	Solid	8015 NM	
890-1578-7	BH-13	Total/NA	Solid	8015 NM	
890-1578-8	BH-14	Total/NA	Solid	8015 NM	
890-1578-9	BH-15	Total/NA	Solid	8015 NM	
890-1578-10	BH-16	Total/NA	Solid	8015 NM	
890-1578-11	SW-8	Total/NA	Solid	8015 NM	
890-1578-12	SW-9	Total/NA	Solid	8015 NM	
890-1578-13	SW-10	Total/NA	Solid	8015 NM	

### **HPLC/IC**

### Leach Batch: 12528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-1	BH-10	Soluble	Solid	DI Leach	
890-1578-2	BH-11	Soluble	Solid	DI Leach	
890-1578-3	SW-5	Soluble	Solid	DI Leach	
890-1578-4	SW-6	Soluble	Solid	DI Leach	
890-1578-5	BH-12	Soluble	Solid	DI Leach	
890-1578-6	SW-7	Soluble	Solid	DI Leach	
890-1578-7	BH-13	Soluble	Solid	DI Leach	
890-1578-8	BH-14	Soluble	Solid	DI Leach	
890-1578-9	BH-15	Soluble	Solid	DI Leach	
890-1578-10	BH-16	Soluble	Solid	DI Leach	
890-1578-11	SW-8	Soluble	Solid	DI Leach	
890-1578-12	SW-9	Soluble	Solid	DI Leach	
890-1578-13	SW-10	Soluble	Solid	DI Leach	
MB 880-12528/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12528/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12528/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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### **QC Association Summary**

Client: GHD Services Inc. Job ID: 890-1578-1 Project/Site: Madison Fee COM #1 SDG: 11220758

### **HPLC/IC** (Continued)

### Leach Batch: 12528 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-10 MS	BH-16	Soluble	Solid	DI Leach	
890-1578-10 MSD	BH-16	Soluble	Solid	DI Leach	

### **Analysis Batch: 12602**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1578-1	BH-10	Soluble	Solid	300.0	12528
890-1578-2	BH-11	Soluble	Solid	300.0	12528
890-1578-3	SW-5	Soluble	Solid	300.0	12528
890-1578-4	SW-6	Soluble	Solid	300.0	12528
890-1578-5	BH-12	Soluble	Solid	300.0	12528
890-1578-6	SW-7	Soluble	Solid	300.0	12528
890-1578-7	BH-13	Soluble	Solid	300.0	12528
890-1578-8	BH-14	Soluble	Solid	300.0	12528
890-1578-9	BH-15	Soluble	Solid	300.0	12528
890-1578-10	BH-16	Soluble	Solid	300.0	12528
890-1578-11	SW-8	Soluble	Solid	300.0	12528
890-1578-12	SW-9	Soluble	Solid	300.0	12528
890-1578-13	SW-10	Soluble	Solid	300.0	12528
MB 880-12528/1-A	Method Blank	Soluble	Solid	300.0	12528
LCS 880-12528/2-A	Lab Control Sample	Soluble	Solid	300.0	12528
LCSD 880-12528/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12528
890-1578-10 MS	BH-16	Soluble	Solid	300.0	12528
890-1578-10 MSD	BH-16	Soluble	Solid	300.0	12528

Released to Imaging: 9/13/2022 2:25:32 PM

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Date Received: 11/16/21 15:15

SDG: 11220758

**Client Sample ID: BH-10** Lab Sample ID: 890-1578-1 Date Collected: 11/16/21 13:05

**Matrix: Solid** 

Job ID: 890-1578-1

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 12436 Total/NA Prep 5.02 g 5 mL 11/17/21 10:11 KL XEN MID 8021B Total/NA Analysis 1 5 mL 5 mL 12499 11/17/21 20:16 MR XEN MID Total/NA Analysis Total BTEX 12693 11/18/21 16:13 ΑJ XEN MID Total/NA 8015 NM 12574 XEN MID Analysis 1 11/17/21 13:26 AJ Total/NA 8015NM Prep 10 mL 12503 11/17/21 09:56 XEN MID Prep 10.04 g DM Total/NA Analysis 8015B NM 12505 11/17/21 16:50 AJ XEN MID Soluble DI Leach 50 mL 12528 11/17/21 11:07 СН XEN MID Leach 4.96 g Soluble Analysis 300.0 12602 11/18/21 09:21 CH XEN MID

Client Sample ID: BH-11 Lab Sample ID: 890-1578-2

Date Collected: 11/16/21 13:10 **Matrix: Solid** Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 20:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 17:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12528	11/17/21 11:07	СН	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 09:28	CH	XEN MID

**Client Sample ID: SW-5** Lab Sample ID: 890-1578-3

Date Collected: 11/16/21 13:15 **Matrix: Solid** Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 20:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 09:35	CH	XEN MID

Client Sample ID: SW-6 Lab Sample ID: 890-1578-4

Date Collected: 11/16/21 13:20 **Matrix: Solid** Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 21:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID

Project/Site: Madison Fee COM #1

Job ID: 890-1578-1 SDG: 11220758

**Client Sample ID: SW-6** 

Lab Sample ID: 890-1578-4

Matrix: Solid

Date Collected: 11/16/21 13:20 Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 18:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 09:43	CH	XEN MID

**Client Sample ID: BH-12** Lab Sample ID: 890-1578-5

Date Collected: 11/16/21 13:25 Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 21:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 18:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 10:05	CH	XEN MID

**Client Sample ID: SW-7** Lab Sample ID: 890-1578-6

Date Collected: 11/16/21 13:30 Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	12436	11/17/21 10:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/17/21 21:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 10:12	CH	XEN MID

Client Sample ID: BH-13 Lab Sample ID: 890-1578-7

Date Collected: 11/16/21 14:00 Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	12527	11/17/21 11:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/18/21 08:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 19:18	AJ	XEN MID

Eurofins Xenco, Carlsbad

Page 28 of 39

**Matrix: Solid** 

**Matrix: Solid** 

Project/Site: Madison Fee COM #1

**Client Sample ID: BH-13** 

Job ID: 890-1578-1 SDG: 11220758

Lab Sample ID: 890-1578-7

Matrix: Solid

Date Collected: 11/16/21 14:00 Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 10:20	CH	XEN MID

**Client Sample ID: BH-14** Lab Sample ID: 890-1578-8

Date Collected: 11/16/21 14:05 **Matrix: Solid** 

Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12527	11/17/21 11:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/18/21 08:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 19:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 10:27	CH	XEN MID

**Client Sample ID: BH-15** Lab Sample ID: 890-1578-9

Date Collected: 11/16/21 14:10 **Matrix: Solid** Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12527	11/17/21 11:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/18/21 08:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 19:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 10:34	CH	XEN MID

**Client Sample ID: BH-16** Lab Sample ID: 890-1578-10

Date Collected: 11/16/21 14:15 Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12527	11/17/21 11:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/18/21 09:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 20:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 10:42	CH	XEN MID

Eurofins Xenco, Carlsbad

Project/Site: Madison Fee COM #1

Job ID: 890-1578-1 SDG: 11220758

**Client Sample ID: SW-8** 

Date Collected: 11/16/21 14:20 Date Received: 11/16/21 15:15

Lab Sample ID: 890-1578-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12527	11/17/21 11:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/18/21 09:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 20:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 11:04	CH	XEN MID

Lab Sample ID: 890-1578-12

**Client Sample ID: SW-9** Date Collected: 11/16/21 14:25

Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12527	11/17/21 11:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/18/21 09:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12503	11/17/21 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12505	11/17/21 21:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 11:11	CH	XEN MID

**Client Sample ID: SW-10** Lab Sample ID: 890-1578-13

Date Collected: 11/16/21 14:40 Date Received: 11/16/21 15:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12527	11/17/21 11:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12499	11/18/21 10:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12504	11/17/21 09:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12507	11/17/21 17:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12528	11/17/21 11:07	CH	XEN MID
Soluble	Analysis	300.0		1			12602	11/18/21 11:33	CH	XEN MID

**Laboratory References:** 

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

**Matrix: Solid** 

### **Accreditation/Certification Summary**

Client: GHD Services Inc.

Job ID: 890-1578-1

Project/Site: Madison Fee COM #1

SDG: 11220758

### Laboratory: Eurofins Xenco, Midland

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

Authority Texas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for v
the agency does not of	fer certification.	,	ou by the governming dutiestry.	ay molado analytoo lor v
the agency does not of Analysis Method	fer certification.  Prep Method	Matrix	Analyte	y moduc analytics for v
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### **Method Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1578-1

SDG: 11220758

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

### **Sample Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1578-1 SDG: 11220758

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1578-1	BH-10	Solid	11/16/21 13:05	11/16/21 15:15
890-1578-2	BH-11	Solid	11/16/21 13:10	11/16/21 15:15
890-1578-3	SW-5	Solid	11/16/21 13:15	11/16/21 15:15
890-1578-4	SW-6	Solid	11/16/21 13:20	11/16/21 15:15
890-1578-5	BH-12	Solid	11/16/21 13:25	11/16/21 15:15
890-1578-6	SW-7	Solid	11/16/21 13:30	11/16/21 15:15
890-1578-7	BH-13	Solid	11/16/21 14:00	11/16/21 15:15
390-1578-8	BH-14	Solid	11/16/21 14:05	11/16/21 15:15
390-1578-9	BH-15	Solid	11/16/21 14:10	11/16/21 15:15
90-1578-10	BH-16	Solid	11/16/21 14:15	11/16/21 15:15
90-1578-11	SW-8	Solid	11/16/21 14:20	11/16/21 15:15
390-1578-12	SW-9	Solid	11/16/21 14:25	11/16/21 15:15
890-1578-13	SW-10	Solid	11/16/21 14:40	11/16/21 15:15

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# CHAIN OF CUSTODY

2135 S. Loop 250 West Midland TX Project Location: Project Name/Number Project Information Madison Fee COM #1 / 11220758 Norcross, Georgia (770-449-8800) Odessa, Texas (432-563-1800) Analytical Information Xenco Job # Tampa, Florida (813-620-2000) Lakeland, Florida (863-646-8526) P = Product Matrix Codes

Client / Reporting Information
Company Name / Branch:
GHD/Midland 5 loike. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negiciated CIP Samplers's Name Zach Comino Project Contact: No Turneround Time ( Business days)

Same Day T ( T 2 Company Address: Relinquished by: 2 Day EMERGENCY Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) Matthew laughlin@ghd.com 3 Day EMERGENCY FAT Starts Day received by Lab, if received by 5:00 pm **Next Day EMERGENCY** ames kennedy@eogresources.com Becky Haskell / Glenn Quinney emilia BH-18 1314-13 いこう 13H-11 34.14 SU-0 21-MS Field ID / Point of Collection 5 Day TAT tom larson@ghd com 7 Day TAT Contract TAT Phone No: (432)250-7917
Zach.comino@ghd.com Date Time: MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Date Time: Recywyd By: // | Relinquished By: Date Time: 111621 Invoice To: 1218 25 1325 1300 Eddy County, New Mexico
EOG / James Kennedy Recoved By: 3 >121 310 Received By: SP 25 Received By Report MDLs and J values. HIO TRRP Checklist Time Level 3 (CLP Forms) Level III Std QC+ Forms Level II Std QC Matrix Data Deliverable Information # of 2.91.11 NaOH/Zr -iNO3 Relinquished By: 12504 Custody Seal # Relinquished By: UST / RG -411 TRRP Level IV Level IV (Full Data Pkg /raw data) laOH VaHSO4 MEOH TPH By 8015 Mod (GRO, DRO & MRO) Preserved where applicable BTEX 8021 B Date Date Time: Chloride 600 Time Received By: Received By: 890-1578 Chain of Custody On lo No SSOW / Direct Bill to EOC 23.2 123.0 ield Comments S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water 0 = 01 SL = Sludge W = Wipe OW =Ocean/Sea Water SW = Surface water WW= Waste Water FOO WIN 2.0-Page 34 of 39

Norcross, Georgia (770-449-8800)	Odessa, Texas (432-563-1800)	
Tampa, Florida (813-6	Lakeland, Florida (86	

Stafford, Texas (281-240-4200)			Odessa, 10	ISSA, 18X45 (432-363-1600)	randialia, i solida (oco)
Dallas Texas (214-902-0300)			Norcross, C	eorgia (770-449-8	Tampa, Florida (813-620-2000)
Service Center - San Antonio, Texas (210-509-3334)		www.xenco.com	Xenco Quote #		Xenco Job#
				Analytical Information	Matrix Codes
Client / Reporting Information		Project Information	0)		
Company Name / Branch: GHD/Midland	Project	Project Name/Number: Madison Fee COM #1 / 11220758			S = Soll/Sed/Solid
Company Address: 2135 S . Loop 250 West Midland TX	Project	Project Location:			GW =Ground Water DW = Drinking Water
	Invoice To:	Eddy County, New Mexico	, DF		P = Product SW = Surface water
	com		GRO		SL = Sludge OW =Ocean/Sea Water
James kennedy@eogresources.com tom.larson@gnd.com Project Contact: Becky Haskell / Glenn Quinney			od (0		W=Wipe
Samplers's Name Zach Comino	O Number: NA	Del: NW		)	WW= Waste Water
	Gollection			e 600	ARAIT
No. Field ID / Point of Collection	Sample	Matrix bottles HCI NaOH/Zn Acetate	H2SO4 NaOH NaHSO4 MEOH NONE TPH By	Chlorid	Field Comments
8-WS		376 S	× × ×	×	
2 SW-9		14.25 H	8 8	8	
3 50-10	-	140 d &	8	6	
4					
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10 Timesound Time ( Ristinges days)		Data Deliverable Information			
Mame Day TAT	AT		Level IV (Full Data Pkg /raw data)		
Next Day EMERGENCY 7 Day TAT	7	Level III Std QC+ Forms	TRRP Level IV		
2 Day EMERGENCY Contract TAT	TAT	Level 3 (CLP Forms)	UST / RG -411		
3 Day EMERGENCY		TRRP Checklist			No SSOW / Direct Bill to EOG
TAT Starts Day received by Lab, if received by 5:00 pm	by 5:00 pm	Report MDLs and J values.			
SAMP	Date Time:	LE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER UE    Date Time:   Received By:	LIVERT	Date Time: Reco	Received By:
Relinquished by:	Date Time:			Date Time: Rece	
Relinquished by:	Date Time:	Received By:	Custody Seal # Prese	Preserved where applicable	ody Seal # Preserved where applicable On Ice Cooler Temp. Thermo. Corr. Factor
blades Clanation of the day mand and allowed of camples open	and a walled ourschasse order from	n client company to XENCO Laboratories and its affiliates, su	ubcontractors and assigns XENCO's stands	ird terms and conditions of sen	Vice unless previously neglociated direct a long executed circ

**Eurofins Xenco, Carlsbad** 

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### **Chain of Custody Record**

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Environment Testing

State Zip TX 79701 BH-15 (890-1578-9) BH-13 (890-1578-7) SW-7 (890-1578-6) BH-12 (890-1578-5) SW-5 (890-1578-3) BH-14 (890-1578-8) SW-6 (890-1578-4) BH-11 (890-1578-2) BH-10 (890-1578-1) Madison Fee COM #1 Deliverable Requested | | | | | | | | | | | | | Other (specify) Sample Identification - Client ID (Lab ID) 432-704-5440(Tel) Midland 1211 W Florida Ave Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 ossible Hazard Identification lote Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently raintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. tention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC mpty Kit Relinquished by Custody Seals Intact. linquished by oject Name urofins Xenco ipping/Receiving lient Information Yes 8 (Sub Contract Lab) Custody Seal No Project #: 88000221 Date/Time Primary Deliverable Rank 2 Due Date Requested 11/18/2021 **V**O# TAT Requested (days): Phone Sample Date 11/16/21 11/16/21 11/16/21 11/16/21 11/16/21 11/16/21 11/16/21 11/16/21 11/16/21 Mountain 13 10 Date Mountain 14 10 Mountain 14 05 Mountain 14 00 Mountain 13 30 Mountain 13 25 Mountain 13 20 Mountain 13 15 Sample 13 05 (C=comp G=grab Sample Type Preservation Code Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid debbie.simmons@eurofinset.com
Accreditations Required (See note) Simmons Debbie Ime Field Filtered Sample (Yes or No) Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Perform MS/MSD (Yes or No) Received by: 8015MOD\_NM/8015NM\_S\_Prep Full TPH - NM × × × × × × Cooler Temperature(s) °C and Other Remarks × × Return To Client × × × × × × 8021B/6035FP\_Calc BTEX (bulk jar/FP prep) × ×  $\times$ × × × × 300\_ORGFM\_28D/DI\_LEACH Chloride ×  $\times$ × ×  $\times$ × × × × × × 8015MOD Calc Analysis Requested × × × Total BTEX GCV Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Date/Time Archive For Total Number of containers ... \_ B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid COC No. 890-510 1 Page 1 of 2 Preservation Codes 890-1578-1 Jce J DI Water < EDTA \_ EDA න 두 M Hexane

Acetate O AsNaO2
Acid P Na2O4S
A Q Na2SO3
R Na2SO3
R T TSP Dodecahydrate V MCAA
W nu Special Instructions/Note Company Ver: 06/08/2021 **Months** 

1089 N Canal St.

**Eurofins Xenco, Carlsbad** 

Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 2

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**Chain of Custody Record** 

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Renvironment Testing
America

### State Zip: TX 79701 SW-8 (890-1578-11) BH-16 (890-1578-10) Shipping/Receiving Client Information (Sub Contract Lab) Vote Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. SW-10 (890-1578-13) SW-9 (890-1578-12) Sample Identification - Client ID (Lab ID) Madison Fee COM #1 132-704-5440(Tel) Midland 1211 W Florida Ave Deliverable Requested | II III IV Other (specify) elinquished by mpty Kit Relinquished by ossible Hazard Identification urofins Xenco nabished by iquished by Custody Seal No Phone Project #: 88000221 PO# TAT Requested (days) 11/18/2021 Due Date Requested Sampler Primary Deliverable Rank 2 Sample Date 11/16/21 11/16/21 11/16/21 11/16/21 Mountain 14 40 Mountain 14 25 Mountain 14 20 Mountain Sample 14 15 (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid debbie simmons@eurofinset.com Simmons Debbie Field Filtered Sample (Yes or No) Accreditations Required (See note) NELAP - Louisiana NELAP - Texas Time Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements × 8015MOD\_NM/8015NM\_S\_Prep Full TPH - NN Received by × × × Cooler Temperature(s) °C and Other Remarks × × × × 3021B/5035FP\_Calc BTEX (bulk jar/FP prep) 300\_ORGFM\_28D/DI\_LEACH Chlorid × × × × 8015MOD\_Calc × × $\times$ × Analysis Requested × Total\_BTEX\_GCV × $\times$ × State of Origin: New Mexico Carrier Tracking No(s) Method of Shipment Date/Time Date/Time Total Number of containers 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 COC No: 890-510 2 Page 2 of 2 Preservation Codes 390-1578-1 N ≷ < C vοz N None O AsNAO2 P Na2O4S R Na2S03 R Na2S203 S H2S04 T TSP Dodecahydrate Company Company Ver: 06/08/2021 Company Acetone MCAA other (specify)

### **Login Sample Receipt Checklist**

Client: GHD Services Inc.

Job Number: 890-1578-1

SDG Number: 11220758

List Source: Eurofins Xenco, Carlsbad

Login Number: 1578 List Number: 1 Creator: Clifton, Cloe

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

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11/18/2021

### **Login Sample Receipt Checklist**

Client: GHD Services Inc.

Job Number: 890-1578-1 SDG Number: 11220758

List Source: Eurofins Xenco, Midland

List Creation: 11/17/21 12:45 PM

List Number: 2 Creator: Teel, Brianna

Login Number: 1578

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

**Eurofins Xenco, Carlsbad** 

Released to Imaging: 9/13/2022 2:25:32 PM

### **Environment Testing America**

### **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1584-1

Laboratory Sample Delivery Group: 11220758 Client Project/Site: Madison Fee COM #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

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

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Released to Imaging: 9/13/2022 2:25:32 PM

Client: GHD Services Inc.

Laboratory Job ID: 890-1584-1

Project/Site: Madison Fee COM #1

SDG: 11220758

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### **Definitions/Glossary**

Client: GHD Services Inc. Job ID: 890-1584-1 Project/Site: Madison Fee COM #1

SDG: 11220758

### **Qualifiers**

**GC VOA** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

### **GC Semi VOA**

Qualifier **Qualifier Description** 

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

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

### 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent Positive / Present POS **PQL Practical Quantitation Limit** 

**PRES** Presumptive

QC **Quality Control RER** Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

### **Case Narrative**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1584-1

SDG: 11220758

Job ID: 890-1584-1

**Laboratory: Eurofins Xenco, Carlsbad** 

Narrative

Job Narrative 890-1584-1

### Receipt

The samples were received on 11/17/2021 3:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 22.0°C

### **GC VOA**

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

### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH-17 (890-1584-1) and BH-18 (890-1584-2). Evidence of matrix interference is not obvious.

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

### HPLC/IC

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

### **Client Sample Results**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1584-1

SDG: 11220758

Client Sample ID: BH-17

Date Collected: 11/17/21 13:30
Date Received: 11/17/21 15:45

Lab Sample ID: 890-1584-1

Matrix: Solid

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	-
	•
	_

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		11/18/21 09:46	11/18/21 17:56	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		11/18/21 09:46	11/18/21 17:56	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		11/18/21 09:46	11/18/21 17:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		11/18/21 09:46	11/18/21 17:56	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		11/18/21 09:46	11/18/21 17:56	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		11/18/21 09:46	11/18/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/18/21 09:46	11/18/21 17:56	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/18/21 09:46	11/18/21 17:56	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			11/19/21 13:44	1
Method: 8015 NM - Diesel Range	Organics (DR	o) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.9	J	49.9	15.0	mg/Kg			11/19/21 13:54	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
	99								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	<b>RL</b> 49.9		Unit mg/Kg	<u>D</u>	Prepared 11/18/21 12:34	Analyzed 11/18/21 13:56	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result   <49.9	Qualifier U	49.9	15.0	mg/Kg	<u>D</u>	11/18/21 12:34	11/18/21 13:56	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		15.0		<u>D</u>	<u>·</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result   <49.9	Qualifier U J	49.9	15.0 15.0	mg/Kg	<u>D</u>	11/18/21 12:34	11/18/21 13:56	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.9   16.9	Qualifier U  J  U	49.9	15.0 15.0	mg/Kg	<u>D</u>	11/18/21 12:34	11/18/21 13:56 11/18/21 13:56	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <49.9     16.9   <49.9	Qualifier U  J  U	49.9 49.9 49.9	15.0 15.0	mg/Kg	<u>D</u>	11/18/21 12:34 11/18/21 12:34 11/18/21 12:34	11/18/21 13:56 11/18/21 13:56 11/18/21 13:56	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  J  U	49.9 49.9 49.9 <i>Limits</i>	15.0 15.0	mg/Kg	<u>D</u>	11/18/21 12:34 11/18/21 12:34 11/18/21 12:34 Prepared	11/18/21 13:56 11/18/21 13:56 11/18/21 13:56 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier  U  J  U  Qualifier  S1+	49.9 49.9 49.9  Limits 70 - 130	15.0 15.0	mg/Kg	<u>D</u>	11/18/21 12:34 11/18/21 12:34 11/18/21 12:34 Prepared 11/18/21 12:34	11/18/21 13:56 11/18/21 13:56 11/18/21 13:56 Analyzed 11/18/21 13:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier  U  J  U  Qualifier  S1+	49.9 49.9 49.9  Limits 70 - 130	15.0 15.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	11/18/21 12:34 11/18/21 12:34 11/18/21 12:34 Prepared 11/18/21 12:34	11/18/21 13:56 11/18/21 13:56 11/18/21 13:56 Analyzed 11/18/21 13:56	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: BH-18 Lab Sample ID: 890-1584-2

Date Collected: 11/17/21 13:45 Date Received: 11/17/21 15:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		11/18/21 09:46	11/18/21 18:16	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		11/18/21 09:46	11/18/21 18:16	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		11/18/21 09:46	11/18/21 18:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		11/18/21 09:46	11/18/21 18:16	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		11/18/21 09:46	11/18/21 18:16	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		11/18/21 09:46	11/18/21 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/18/21 09:46	11/18/21 18:16	1
1,4-Difluorobenzene (Surr)	103		70 - 130				11/18/21 09:46	11/18/21 18:16	1

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Date Received: 11/17/21 15:45

### **Client Sample Results**

Client: GHD Services Inc. Project/Site: Madison Fee COM #1 Job ID: 890-1584-1 SDG: 11220758

**Client Sample ID: BH-18** Lab Sample ID: 890-1584-2 Date Collected: 11/17/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			11/19/21 13:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.8	J	49.8	14.9	mg/Kg			11/19/21 13:54	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	14.9	mg/Kg		11/18/21 12:34	11/18/21 14:17	1
(GRO)-C6-C10									
Diesel Range Organics (Over	15.8	J	49.8	14.9	mg/Kg		11/18/21 12:34	11/18/21 14:17	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		11/18/21 12:34	11/18/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				11/18/21 12:34	11/18/21 14:17	1
o-Terphenyl	154	S1+	70 - 130				11/18/21 12:34	11/18/21 14:17	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.73		4.96	0.851	mg/Kg			11/18/21 16:33	

### **Surrogate Summary**

Client: GHD Services Inc. Job ID: 890-1584-1 Project/Site: Madison Fee COM #1

SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Red
		BFB1	DFBZ1	_
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1584-1	BH-17	94	107	
890-1584-2	BH-18	102	103	
LCS 880-12502/1-A	Lab Control Sample	98	100	
LCSD 880-12502/2-A	Lab Control Sample Dup	93	99	
MB 880-12502/5-A	Method Blank	110	96	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ene (Surr)			
DFBZ = 1,4-Difluorobenzer	ne (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1584-1	BH-17	119	145 S1+	
890-1584-2	BH-18	124	154 S1+	
LCS 880-12639/2-A	Lab Control Sample	90	86	
LCSD 880-12639/3-A	Lab Control Sample Dup	129	126	
MB 880-12639/1-A	Method Blank	98	114	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Project/Site: Madison Fee COM #1

Job ID: 890-1584-1 SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12502/5-A

Lab Sample ID: LCS 880-12502/1-A

Matrix: Solid Analysis Batch: 12628

sis Batch: 12628

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12502

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/18/21 09:46	11/18/21 14:48	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/18/21 09:46	11/18/21 14:48	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/18/21 09:46	11/18/21 14:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/18/21 09:46	11/18/21 14:48	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/18/21 09:46	11/18/21 14:48	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/18/21 09:46	11/18/21 14:48	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/18	8/21 09:46	11/18/21 14:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/18	8/21 09:46	11/18/21 14:48	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12502

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09913 mg/Kg 99 70 - 130 Toluene 0.100 0.08828 mg/Kg 88 70 - 130 0.100 0.09088 Ethylbenzene mg/Kg 91 70 - 130 0.200 0.1749 87 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.08769 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-12502/2-A Client Sample ID: Lal

Matrix: Solid

**Matrix: Solid** 

**Analysis Batch: 12628** 

Analysis Batch: 12628

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

Prep Batch: 12502

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09879 mg/Kg 99 70 - 130 0 35 Toluene 0.100 0.08639 mg/Kg 86 70 - 130 2 35 Ethylbenzene 0.100 0.08966 mg/Kg 90 70 - 130 35 0.200 m-Xylene & p-Xylene 0.1723 mg/Kg 86 70 - 130 35 0.100 0.08615 70 - 130 o-Xylene mg/Kg 86 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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Client: GHD Services Inc. Project/Site: Madison Fee COM #1

Job ID: 890-1584-1 SDG: 11220758

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12639/1-A

Lab Sample ID: LCS 880-12639/2-A

**Matrix: Solid** 

**Analysis Batch: 12608** 

**Matrix: Solid Analysis Batch: 12608**  Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12639

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		11/18/21 12:34	11/18/21 11:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		11/18/21 12:34	11/18/21 11:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/18/21 12:34	11/18/21 11:19	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/18/21 12:34	11/18/21 11:19	1
o-Terphenyl	114		70 - 130				11/18/21 12:34	11/18/21 11:19	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 12639

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 1000 833.3 83 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 106 Diesel Range Organics (Over 1000 1057 mg/Kg 70 - 130C10-C28)

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 90 70 - 130 o-Terphenyl 86 70 - 130

Lab Sample ID: LCSD 880-12639/3-A

**Analysis Batch: 12608** 

**Matrix: Solid** 

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

Prep Batch: 12639

LCSD LCSD Spike %Rec. RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Gasoline Range Organics 1000 906.7 mg/Kg 91 70 - 130 8 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 933.1 mg/Kg 93 70 - 130 12 20 C10-C28)

LCSD LCSD Qualifier %Recovery Limits Surrogate 70 - 130 1-Chlorooctane 129 126 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12637/1-A

**Matrix: Solid** 

Analysis Batch: 12641

Client Sample ID: Method Blank **Prep Type: Soluble** 

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 11/18/21 14:55 0.858 mg/Kg

### **QC Sample Results**

Client: GHD Services Inc. Job ID: 890-1584-1 Project/Site: Madison Fee COM #1

SDG: 11220758

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-12637/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 12641

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	241.4		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-12637/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 12641

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	242.2		mg/Kg		97	90 - 110	0	20

### **QC Association Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1584-1 SDG: 11220758

2

### **GC VOA**

### Prep Batch: 12502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1584-1	BH-17	Total/NA	Solid	5035	
890-1584-2	BH-18	Total/NA	Solid	5035	
MB 880-12502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

### **Analysis Batch: 12628**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1584-1	BH-17	Total/NA	Solid	8021B	12502
890-1584-2	BH-18	Total/NA	Solid	8021B	12502
MB 880-12502/5-A	Method Blank	Total/NA	Solid	8021B	12502
LCS 880-12502/1-A	Lab Control Sample	Total/NA	Solid	8021B	12502
LCSD 880-12502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12502

### **Analysis Batch: 12779**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1584-1	BH-17	Total/NA	Solid	Total BTEX	
890-1584-2	BH-18	Total/NA	Solid	Total BTEX	

### **GC Semi VOA**

### **Analysis Batch: 12608**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1584-1	BH-17	Total/NA	Solid	8015B NM	12639
890-1584-2	BH-18	Total/NA	Solid	8015B NM	12639
MB 880-12639/1-A	Method Blank	Total/NA	Solid	8015B NM	12639
LCS 880-12639/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12639
LCSD 880-12639/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12639

### Prep Batch: 12639

<b>Lab Sample ID</b> 890-1584-1	Client Sample ID BH-17	Prep Type Total/NA	Matrix Solid	Method Prop	ep Batch
890-1584-2	BH-18	Total/NA	Solid	8015NM Prep	
MB 880-12639/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12639/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12639/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

### **Analysis Batch: 12781**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1584-1	BH-17	Total/NA	Solid	8015 NM	
890-1584-2	BH-18	Total/NA	Solid	8015 NM	

### HPLC/IC

### Leach Batch: 12637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1584-1	BH-17	Soluble	Solid	DI Leach	
890-1584-2	BH-18	Soluble	Solid	DI Leach	
MB 880-12637/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12637/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12637/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

### **QC Association Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

SDG: 11220758

HPLC/IC

Analysis Batch: 12641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1584-1	BH-17	Soluble	Solid	300.0	12637
890-1584-2	BH-18	Soluble	Solid	300.0	12637
MB 880-12637/1-A	Method Blank	Soluble	Solid	300.0	12637
LCS 880-12637/2-A	Lab Control Sample	Soluble	Solid	300.0	12637
LCSD 880-12637/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12637

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Project/Site: Madison Fee COM #1

Job ID: 890-1584-1

SDG: 11220758

**Client Sample ID: BH-17** 

Date Collected: 11/17/21 13:30 Date Received: 11/17/21 15:45

Lab Sample ID: 890-1584-1

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.98 g 5 mL 12502 11/18/21 09:46 KL XEN MID 8021B Total/NA Analysis 1 5 mL 5 mL 12628 11/18/21 17:56 KL XEN MID Total/NA Analysis Total BTEX 12779 11/19/21 13:44 ΑJ XEN MID Total/NA 8015 NM 11/19/21 13:54 XEN MID Analysis 1 12781 AJ Total/NA 8015NM Prep 12639 11/18/21 12:34 XEN MID Prep 10.03 g 10 mL AM Total/NA Analysis 8015B NM 12608 11/18/21 13:56 ΑJ XEN MID

1

5.05 g

50 mL

12637

12641

Lab Sample ID: 890-1584-2

SC

CH

11/18/21 12:27

11/18/21 16:28

**Matrix: Solid** 

XEN MID

XEN MID

Date Collected: 11/17/21 13:45 Date Received: 11/17/21 15:45

Client Sample ID: BH-18

Leach

Analysis

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12502	11/18/21 09:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12628	11/18/21 18:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12779	11/19/21 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12639	11/18/21 12:34	AM	XEN MID
Total/NA	Analysis	8015B NM		1			12608	11/18/21 14:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	12637	11/18/21 12:27	SC	XEN MID
Soluble	Analysis	300.0		1			12641	11/18/21 16:33	CH	XEN MID

**Laboratory References:** 

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

DI Leach

300.0

### **Accreditation/Certification Summary**

Client: GHD Services Inc.

Job ID: 890-1584-1

Project/Site: Madison Fee COM #1

SDG: 11220758

### Laboratory: Eurofins Xenco, Midland

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

Authority Texas		rogram	Identification Number	Expiration Date 06-30-22	
		ELAP	T104704400-21-22		
The following analytes the agency does not of		ut the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for wh	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

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### **Method Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1584-1 SDG: 11220758

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 XEN MID **Total BTEX Calculation** Total BTEX TAL SOP XEN MID 8015 NM Diesel Range Organics (DRO) (GC) SW846 XEN MID 8015B NM Diesel Range Organics (DRO) (GC) SW846 **XEN MID** 300.0 Anions, Ion Chromatography MCAWW XEN MID 5035 SW846 XEN MID Closed System Purge and Trap 8015NM Prep Microextraction SW846 XEN MID DI Leach Deionized Water Leaching Procedure ASTM XEN MID

### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### **Laboratory References:**

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

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### **Sample Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1584-1

SDG: 11220758

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1584-1	BH-17	Solid	11/17/21 13:30	11/17/21 15:45
890-1584-2	BH-18	Solid	11/17/21 13:45	11/17/21 15:45

voltice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subconfractors and assigns XENCO's standard terms and conditions of service unless GHD/Midland
Company Address: 2135 S. Loop 250 West Midland TX No Samplers's Name Zach Comino Project Contact: Becky Haskell / Glenn Quinney 10 Company Name / Branch: Relinquished by: Same Day TAT 3 Day EMERGENCY 2 Day EMERGENCY Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) Stafford, Texas (281-240-4200) elinquished by: becky.haskell@ghd.com
Matthew.laughlin@ghd.con
ames kennedy@eogresources.com TAT Starts Day received by Lab, if received by 5:00 pm **Next Day EMERGENCY** Client / Reporting Information Turnaround Time ( Business days) Field ID / Point of Collection 5 Day TAT tom.larson@ghd.com 7 Day TAT Contract TAT Phone No: (432)250-7917 Zach.comino@ghd.com AMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COUNIER DELIVERY

RECITIVED BY:

Recitived By: Date Time: Date Time: 124111 PO Number: NA invoice To: Project Name/Number: 1345 Eddy County, New Mexico EOG / James Kennedy 225 Recoved By: Codo Received By: Report MDLs and J values. TRRP Checklist Level 3 (CLP Forms) Time Level III Std QC+ Forms Project Information Level II Std QC Madison Fee COM #1 / 11220758 0 Matrix Data Deliverable Information www.xenco.com # of 4 11-17-2 NaOH/Zn Number of preserved bottles HNO3 Custody Seal # Relinquished By: H2SO4 UST / RG -411 TRRP Level IV Level IV (Full Data Pkg /raw data) laHSO4 MEOH Norcross, Georgia (770-449-8800) Odessa, Texas (432-563-1800) TPH By 8015 Mod (GRO, DRO & MRO) 4 Preserved where applic BTEX 8021 B Date Date Time: Chloride 600 × Analytical Information Time: Xenco Job # Received By: Received By: 890-1584 Chain of Custody No SSOW / Direct Bill to EOG Tampa, Florida (813-620-2000) Lakeland, Florida (863-646-8526) 200 0.22 Field Comments WW= Waste Water A = Air SL = Sludge OW =Ocean/Sea Water S = Soll/Sed/Solid GW = Ground Water W = Wipe SW = Surface water P = Product DW = Drinking Water 0 = 01 Matrix Codes

1089 N Canal St

**Eurofins Xenco, Carlsbad** 

## **Chain of Custody Record**

- 1	
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🐝 eurofins

**Environment Testing** 

State Zip: T**X** 79701 Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. BH-17 (890-1584-1) Project Name. Madison Fee COM #1 / 432-704-5440(Tel) Midland Carlsbad, NM 88220 Phone 575-988-3199 Fax Empty Kit Relinquished by Possible Hazard Identification BH-18 (890-1584-2) Sample Identification - Client ID (Lab ID) Shipping/Receiving Deliverable Requested I II III IV 211 W Florida Ave urofins Xenco Custody Seals Intact:

∆ Yes ∆ No linquished by linquished by linquished by lient Information (Sub Contract Lab) Custody Seal No 575-988-3199 Other (specify) Project # 88000221 Due Date Requested 11/19/2021 TAT Requested (days) Phone Sampler Date/Tings Primary Deliverable Rank 2 **₹**0 Date/Time Sample Date 11/17/21 11/17/21 Mountain 13 45 Mountair Sample Time 13 30 (C=comp, G=grab) Preservation Code: Type Company O=waste/oil Matrix Solid Solid Lab PM Simmons Debbie debbie.simmons@eurofinset.com E-Mail Field Filtered Sample (Yes or No) Accreditations Required (See note)
NELAP - Louisiana, NELAP - Texas I Ime. Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon 8015MOD NM/8015NM S Prep Full TPH - NM Cooler Temperature(s) °C and Other Remarks Received by × × × B021B/6036FP\_Calc BTEX (bulk jar/FP prep) 300\_ORGFM\_28D/DI\_LEACH Chloride × × 8015MOD\_Calc × × Analysis Requested Total\_BTEX\_GCV State of Origin New Mexico Carrier Tracking No(s) Method of Shipment Date/Time G Amonio
H Ascorbic Acid
I Ice
J DI Water
J EDTA
L EDA **Total Number of containers** 4 COC No: 890-512.1 iiii □ C m ≥ Preservation Codes 890-1584-1 Page 1 of 1 Nitric Acid
NaHSO4
MeOH
Amchlor NaOH 무 Special Instructions/Note: M - Hexane N None O - AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4

T TSP Dodecahydrate
J Acetone
J MCAA
MPH 4-5 Ver: 06/08/202 company other (specify) Months

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Preservative None

Containers

Count

Container Type

Soll jar 4oz

880-215 ICOC No:

### **Login Sample Receipt Checklist**

Client: GHD Services Inc.

Job Number: 890-1584-1

SDG Number: 11220758

List Source: Eurofins Xenco, Carlsbad

Login Number: 1584 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

### **Login Sample Receipt Checklist**

Client: GHD Services Inc.

Job Number: 890-1584-1 SDG Number: 11220758

Login Number: 1584 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 11/18/21 01:18 PM

Creator: Lowe, Katie

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

# **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1607-1

Laboratory Sample Delivery Group: 11220758 Client Project/Site: Madison Fee COM #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by: 11/23/2021 1:03:27 PM Chad Bechtold, Project Manager (813)690-3563

Grad a. Beethold

chad.bechtold@eurofinset.com

Designee for

Debbie Simmons, Project Manager (832)986-6768

debbie.simmons@eurofinset.com

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

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



Total Access

**Have a Question?** 

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Visit us at:

Expert

Released to Imaging: 9/13/2022 2:25:32 PM

Client: GHD Services Inc.

Laboratory Job ID: 890-1607-1

Project/Site: Madison Fee COM #1

SDG: 11220758

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#### **Definitions/Glossary**

Job ID: 890-1607-1 Client: GHD Services Inc. Project/Site: Madison Fee COM #1 SDG: 11220758

#### **Qualifiers**

#### **GC VOA**

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

Indicates the analyte was analyzed for but not detected.

Indicates the analyte was analyzed for but not detected.

#### **GC Semi VOA**

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

**HPLC/IC** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

#### **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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Released to Imaging: 9/13/2022 2:25:32 PM

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1607-1

SDG: 11220758

Job ID: 890-1607-1

**Laboratory: Eurofins Xenco, Carlsbad** 

Narrative

Job Narrative 890-1607-1

#### Receipt

The samples were received on 11/19/2021 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.0°C. The samples are considered acceptable since they were collected and submitted to the laboratory the same day on ice, and there was evidence that the cooling process had begun.

#### **GC VOA**

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

#### GC Semi VOA

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

#### HPLC/IC

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

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1607-1

SDG: 11220758

Client Sample ID: BH-1A

Date Collected: 11/19/21 08:10 Date Received: 11/19/21 08:40 Lab Sample ID: 890-1607-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000401	J	0.00199	0.000383	mg/Kg		11/22/21 10:00	11/22/21 14:49	
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		11/22/21 10:00	11/22/21 14:49	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		11/22/21 10:00	11/22/21 14:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		11/22/21 10:00	11/22/21 14:49	1
o-Xylene	0.00101	J	0.00199	0.000343	mg/Kg		11/22/21 10:00	11/22/21 14:49	1
Xylenes, Total	0.00101	J	0.00398	0.00101	mg/Kg		11/22/21 10:00	11/22/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/22/21 10:00	11/22/21 14:49	1
1,4-Difluorobenzene (Surr)	82		70 - 130				11/22/21 10:00	11/22/21 14:49	1
Method: Total BTEX - Total BTEX	( Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00141	J	0.00398	0.00101	mg/Kg			11/22/21 16:47	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 50.0	MDL 15.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/19/21 13:54	Dil Fac
Analyte	Result < 50.0	Qualifier U				<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U			mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	15.0	mg/Kg		<u> </u>	11/19/21 13:54	1
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10	Result <50.0  Ge Organics (D  Result <50.0	Qualifier U  RO) (GC) Qualifier U	50.0 RL 50.0	15.0 MDL 15.0	mg/Kg  Unit mg/Kg		Prepared 11/22/21 08:30	11/19/21 13:54  Analyzed  11/22/21 15:02	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  ge Organics (D Result	Qualifier U  RO) (GC) Qualifier U	50.0	15.0 MDL 15.0	mg/Kg		Prepared	11/19/21 13:54  Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  RO) (GC) Qualifier U	50.0 RL 50.0	15.0 MDL 15.0	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/22/21 08:30 11/22/21 08:30	11/19/21 13:54  Analyzed  11/22/21 15:02  11/22/21 15:02	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  Ge Organics (D  Result <50.0	Qualifier U  RO) (GC) Qualifier U	50.0 RL 50.0	15.0 MDL 15.0	mg/Kg  Unit mg/Kg		Prepared 11/22/21 08:30	11/19/21 13:54  Analyzed  11/22/21 15:02	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  RO) (GC) Qualifier U  U	50.0 RL 50.0	15.0 MDL 15.0	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/22/21 08:30 11/22/21 08:30	11/19/21 13:54  Analyzed  11/22/21 15:02  11/22/21 15:02	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  RO) (GC) Qualifier U  U	50.0 RL 50.0 50.0	15.0 MDL 15.0	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 11/22/21 08:30 11/22/21 08:30 11/22/21 08:30	Analyzed 11/22/21 15:02 11/22/21 15:02	Dil Fac

Client Sample ID: SW-1A

Date Collected: 11/19/21 08:20

Matrix: Solid

RL

5.05

MDL Unit

0.867 mg/Kg

D

Prepared

Analyzed

11/22/21 14:47

Dil Fac

Result Qualifier

152

Date Received: 11/19/21 08:40

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		11/22/21 10:00	11/22/21 15:09	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		11/22/21 10:00	11/22/21 15:09	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		11/22/21 10:00	11/22/21 15:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		11/22/21 10:00	11/22/21 15:09	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		11/22/21 10:00	11/22/21 15:09	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		11/22/21 10:00	11/22/21 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 _ 130				11/22/21 10:00	11/22/21 15:09	1
1,4-Difluorobenzene (Surr)	119		70 - 130				11/22/21 10:00	11/22/21 15:09	1

#### **Client Sample Results**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1607-1

SDG: 11220758

Client Sample ID: SW-1A Lab Sample ID: 890-1607-2

Date Collected: 11/19/21 08:20

Date Received: 11/19/21 08:40

Matrix: Solid

Method: Total BTEX - Total BTEX									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg			11/22/21 16:47	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			11/19/21 13:54	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	15.0	mg/Kg		11/22/21 08:30	11/22/21 15:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	15.0	mg/Kg		11/22/21 08:30	11/22/21 15:24	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/22/21 08:30	11/22/21 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/22/21 08:30	11/22/21 15:24	1
o-Terphenyl	126		70 - 130				11/22/21 08:30	11/22/21 15:24	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		4.97	0.853	mg/Kg			11/22/21 14:57	1

#### **Surrogate Summary**

Client: GHD Services Inc. Job ID: 890-1607-1 Project/Site: Madison Fee COM #1 SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1607-1	BH-1A	97	82	
890-1607-2	SW-1A	124	119	
LCS 880-12797/1-A	Lab Control Sample	93	76	
LCSD 880-12797/2-A	Lab Control Sample Dup	106	96	
MB 880-12797/5-A	Method Blank	108	90	
Surrogate Legend				
BFB = 4-Bromofluorobenzer	ne (Surr)			
DFBZ = 1,4-Difluorobenzene	e (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1607-1	BH-1A	109	122	
890-1607-2	SW-1A	109	126	
LCS 880-12847/2-A	Lab Control Sample	108	114	
LCSD 880-12847/3-A	Lab Control Sample Dup	97	106	
MB 880-12847/1-A	Method Blank	132 S1+	148 S1+	

**Surrogate Legend** 

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

#### **QC Sample Results**

Client: GHD Services Inc. Job ID: 890-1607-1 Project/Site: Madison Fee COM #1 SDG: 11220758

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12797/5-A

**Matrix: Solid** 

Analysis Batch: 12903

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12797

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/22/21 10:00	11/22/21 13:46	•
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/22/21 10:00	11/22/21 13:46	
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/22/21 10:00	11/22/21 13:46	
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/22/21 10:00	11/22/21 13:46	
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/22/21 10:00	11/22/21 13:46	
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/22/21 10:00	11/22/21 13:46	

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/22/21 10:0	0 11/22/21 13:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130	11/22/21 10:0	0 11/22/21 13:46	1

Lab Sample ID: LCS 880-12797/1-A

**Matrix: Solid** 

Analysis Batch: 12903

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 12797

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08334 mg/Kg 83 70 - 130 Toluene 0.100 0.08700 mg/Kg 87 70 - 130 0.100 0.08508 85 Ethylbenzene mg/Kg 70 - 130 m-Xylene & p-Xylene 0.200 0.1602 80 70 - 130 mg/Kg 0.100 0.08475 70 - 130 o-Xylene mg/Kg 85

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: LCSD 880-12797/2-A

**Matrix: Solid** 

**Analysis Batch: 12903** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 12797

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08320		mg/Kg		83	70 - 130	0	35
Toluene	0.100	0.09312		mg/Kg		93	70 - 130	7	35
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1878		mg/Kg		94	70 - 130	16	35
o-Xylene	0.100	0.09218		mg/Kg		92	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Eurofins Xenco, Carlsbad

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Client: GHD Services Inc. Job ID: 890-1607-1 Project/Site: Madison Fee COM #1

SDG: 11220758

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12847/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 12853** Prep Batch: 12847

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	15.0	mg/Kg		11/22/21 08:30	11/22/21 10:19	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	15.0	mg/Kg		11/22/21 08:30	11/22/21 10:19	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/22/21 08:30	11/22/21 10:19	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				11/22/21 08:30	11/22/21 10:19	1
o-Terphenvl	148	S1+	70 - 130				11/22/21 08:30	11/22/21 10:19	1

Lab Sample ID: LCS 880-12847/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 12853 Prep Batch: 12847

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 1000 861.4 86 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1120 mg/Kg 112 70 - 130C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 108 70 - 130 o-Terphenyl 114 70 - 130

Lab Sample ID: LCSD 880-12847/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 12853** Prep Batch: 12847 LCSD LCSD Spike %Rec. RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Gasoline Range Organics 1000 837.9 mg/Kg 84 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1057 mg/Kg 106 70 - 130 20 C10-C28) LCSD LCSD

Qualifier %Recovery Limits Surrogate 70 - 130 1-Chlorooctane 97 106 70 - 130 o-Terphenyl

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12494/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 12948

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 11/22/21 09:56 0.858 mg/Kg

#### **QC Sample Results**

Client: GHD Services Inc. Job ID: 890-1607-1 Project/Site: Madison Fee COM #1 SDG: 11220758

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-12494/2-A

**Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** Analysis Batch: 12948 Spike LCS LCS %Rec. Added

Result Qualifier Analyte Unit %Rec Limits Chloride 250 255.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-12494/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 12948

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 256.0 mg/Kg 102 90 - 110 0 20

#### **QC Association Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1607-1 SDG: 11220758

GC VOA

Prep Batch: 12797

<b>Lab Sample ID</b> 890-1607-1	Client Sample ID BH-1A	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
890-1607-2	SW-1A	Total/NA	Solid	5035	
MB 880-12797/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12797/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12797/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Analysis Batch: 12903** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1607-1	BH-1A	Total/NA	Solid	8021B	12797
890-1607-2	SW-1A	Total/NA	Solid	8021B	12797
MB 880-12797/5-A	Method Blank	Total/NA	Solid	8021B	12797
LCS 880-12797/1-A	Lab Control Sample	Total/NA	Solid	8021B	12797
LCSD 880-12797/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12797

**Analysis Batch: 12945** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1607-1	BH-1A	Total/NA	Solid	Total BTEX	
890-1607-2	SW-1A	Total/NA	Solid	Total BTEX	

**GC Semi VOA** 

**Analysis Batch: 12781** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1607-1	BH-1A	Total/NA	Solid	8015 NM	
890-1607-2	SW-1A	Total/NA	Solid	8015 NM	

Prep Batch: 12847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method F	Prep Batch
890-1607-1	BH-1A	Total/NA	Solid	8015NM Prep	
890-1607-2	SW-1A	Total/NA	Solid	8015NM Prep	
MB 880-12847/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12847/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12853

<b>Lab Sample ID</b> 890-1607-1	Client Sample ID BH-1A	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 12847
890-1607-2	SW-1A	Total/NA	Solid	8015B NM	12847
MB 880-12847/1-A	Method Blank	Total/NA	Solid	8015B NM	12847
LCS 880-12847/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12847
LCSD 880-12847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12847

HPLC/IC

Leach Batch: 12494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1607-1	BH-1A	Soluble	Solid	DI Leach	
890-1607-2	SW-1A	Soluble	Solid	DI Leach	
MB 880-12494/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12494/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12494/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## **QC Association Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

SDG: 11220758

HPLC/IC

Analysis Batch: 12948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1607-1	BH-1A	Soluble	Solid	300.0	12494
890-1607-2	SW-1A	Soluble	Solid	300.0	12494
MB 880-12494/1-A	Method Blank	Soluble	Solid	300.0	12494
LCS 880-12494/2-A	Lab Control Sample	Soluble	Solid	300.0	12494
LCSD 880-12494/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12494

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Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1607-1 SDG: 11220758

Lab Sample ID: 890-1607-1

Matrix: Solid

Client Sample ID: BH-1A Date Collected: 11/19/21 08:10 Date Received: 11/19/21 08:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12797	11/22/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12903	11/22/21 14:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10 g	10 mL	12847	11/22/21 08:30	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			12853	11/22/21 15:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	12494	11/22/21 08:05	CA	XEN MID
Soluble	Analysis	300.0		1			12948	11/22/21 14:47	SC	XEN MID

Client Sample ID: SW-1A

Date Collected: 11/19/21 08:20

Date Received: 11/19/21 08:40

Lab Sample ID: 890-1607-2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	12797	11/22/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12903	11/22/21 15:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/22/21 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10 g	10 mL	12847	11/22/21 08:30	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			12853	11/22/21 15:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12494	11/22/21 08:05	CA	XEN MID
Soluble	Analysis	300.0		1			12948	11/22/21 14:57	SC	XEN MID

**Laboratory References:** 

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

#### **Accreditation/Certification Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1607-1

SDG: 11220758

#### Laboratory: Eurofins Xenco, Midland

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

Authority	Pre	ogram	Identification Number	<b>Expiration Date</b>
Texas	NE	LAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	' '	t the laboratory to not ocium	od by the governing dutienty. The list me	ay include analytes for
the agency does not of Analysis Method	' '	Matrix	Analyte	ay molade analytes for t
0 ,	fer certification.	•	, , ,	

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#### **Method Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1607-1

SDG: 11220758

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

#### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

#### **Sample Summary**

Client: GHD Services Inc.

Project/Site: Madison Fee COM #1

Job ID: 890-1607-1 SDG: 11220758

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1607-1	BH-1A	Solid	11/19/21 08:10	11/19/21 08:40
890-1607-2	SW-1A	Solid	11/19/21 08:20	11/19/21 08:40

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Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199

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# **Chain of Custody Record**

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Environment Testing America

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Client Information (Sub Contract Lab)	Sampler			Lab PM Simmo	Lab PM Simmons Debbie	ē					Carri	Carrier Tracking No(s)	king N	)(s)			8 8	COC No	_					
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Company: Eurofins Xenco					Accreditations Required (See note). NELAP - Louisiana NELAP - Texas	ıs Requ	ana N	ee not	). Te	âs	l		İ				-068 # 40L	Job # 890-1607-1	7					
Address. 1211 W Florida Ave, ,	Due Date Requested 11/23/2021	Δ.						Ana	alysis Requested	Re	ues	ted			l		귛	Preservation Codes	on c	odes				
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State, Zip TX 79701					Mariene.	>)										<del>2000</del>	шO	Nitric A	E 6 4	OTO	P Na2O4S Q Na2SO3	Na2O4S Na2SO3		
Phone: 432-704-5440(TeI)	PO#:				en gr	P prep	le									Transportings	רסח	MeOH Amchior	o or		H2S	\$203 Par		
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Project Name:  Madison Fee COM #1	Project # 88000221				s or l	EX (bu	ACH									ainer	ᄆᆽ	EDTA EDA		ΝĘ	v pH othe	pH 4-5 other (specify)	ify)	
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		<u></u>	Sample Type	Matrix (w=water S=solid,	I Filtered orm MS/M MOD_NM/	B/6036FP_	ORGFM_2	MOD_Calo	_BTEX_G							l Number	i 1864 i sedoukellain							
Sample Identification - Client ID (Lab ID)	Sample Date			<u> </u>	Pe	802	300	<u> </u>	Tot							Tot	96,400.	Sp	ecial	inst	Special Instructions/Note:	ons/N	ote:	
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BH-1A (890-1607-1)	11/19/21	08 10 Mountain		Solid	×	×	×	×	×							1 AND 1	lament							
SW-1A (890-1607-2)	11/19/21	08 20 Mountain		Solid	×	×	×	×	×							<b>(4</b> )	and and							
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Note: Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided	laces the ownership or	of method ana	lyte & accreditation shipped back to	on compliance	upon out s	ubcontr	act lab	oratorion ther ins	s. Thi	s samp	le shipi e provi	nent is	forwar ny cha	ded ur	ider ch	ain-of	custo on stat	dy Ift	ne labo	brough	does	not cur	This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently ctions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	LC
Possible Hazard Identification					Same?					3										٠l				L
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#### **Login Sample Receipt Checklist**

Job Number: 890-1607-1

SDG Number: 11220758

Login Number: 1607 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Client: GHD Services Inc.

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

4

#### **Login Sample Receipt Checklist**

Client: GHD Services Inc.

Job Number: 890-1607-1

SDG Number: 11220758

Login Number: 1607 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 11/22/21 08:09 AM

Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2/4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Released to Imaging: 9/13/2022 2:25:32 PM

<6mm (1/4").

# Attachment E Approved C-138 and Disposal Manifests

Form C-138

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised August 1, 2011
\*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR AFFROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address: EOG Resources
5509 Champions Drive Midland, TX 79706
Middle, 11 77700
2. Originating Site: EOG Madison 1 Fee Com #1
3. Location of Material (Street Address, City, State or ULSTR): 32.423508 -104.147116 E-1-22S-27E
52.425506 -104.14/110 E-1-225-2/E
4. Source and Description of Waste: Crude oil impacted soil
Estimated Volume TBD yd3/bbls Known Volume (to be entered by the operator at the end of the haul) yd3/bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, Rebecca Haskell , representative or authorized agent for EOG Resources do hereby
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.  **Operator Use Only: Waste Acceptance Frequency   Monthly   Weekly   Per Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous be characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Chec the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter:
app.
SDR OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Lea Land, LLC Permit #: WM-1-035
Nume and Lacinty Ferrite #. Bea Band, BBC Ferrint #. WM-1-055
Address of Facility: MM 64 Hwy 62/180 East, Carlsbad, NM 88220
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other
Waste Acceptance Status:
PRINTNAME: She les Dento TITLE: Manga DATE: 11-16-24
SIGNATURE: TELEPHONE NO.: 405 236-4257

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

	1500 WEST WITH STREET SKEITHOWN ON I, OK 15100 THORE (405) 250-4257											
NON	-HAZARDOUS WASTE MANIF		48079	1. PA	GEOF_		2-3-22-1	029				
-	3. COMPANY NAME	4. ADDRESS	* D-		Ι'	ICK-UP DATE						
G	DECOMO: Personnes		npion Dr.			11/16/2021						
	PACNENCResources	CITY	STATE		ZIP 6. T	NRCC I.D. NO	).					
E	-(437) 888 3705		TV	0.000	#OPpool	0 707.1	I 10 VEVE	11 7774.0				
	7 NAME OF DESCRIPTION OF WASTE SHIPPE	<sub>D:</sub> Midland	TX.	8. CON No.	Type	9. TOTAL QUANTITY	Wt/Vol.	VASTE ID #				
N	a.		J									
	ьNon-Regulated, Non Hazardous Wast	e		1	СМ		Y					
E	Northwest Victorian and Market and Appendix and and and all pages			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- THE E.S.A.							
ıL	c.											
	d. 110/0 50220 18010											
R	WT 44 MUU DUS/U 40 MUU											
	12. COMMENTS OR SPECIAL INSTRUCTIONS:											
A	MADISON EEE COM#1		10/1	40	41)							
	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN	SE OF EMER	GENCY OR SPIL	L, CON	TACT							
Т	NAME	PHONE NO				24-HOUR	EMERGE	NCY NO.				
•	INT OUT VEDO	ETE 007 10	10									
	15.GENERATOR'S CERTIFICATION:											
0				Il respects in proper condition for transport by highway according to applicable te regulations, and are the same materials previously approved by LEA LAND, LLC								
R	FRINTED/ITFED NAIME		SIGNATURE					DAIE				
	CO. MAN. JAMES CONTER (1) 17 TRANSPORTER (2)											
T R	16. MAN JATRANSPORTER (1)		17.	TR	RANSPO	RTER (2)						
A	NAME:		NAME:									
N	TEXAS I.D. NO. SDR ENTERPRISE	<u> </u>	TEXAS I.D. NO.									
S P	IN CASE OF EMERGENCY CONTACT:		IN CASE OF EMI	ERGENCY	CONTAC	JTACT-						
0	SHA	NNON RUS	c									
R	EMERGENCY PHONE:  18. TRANSPORTER (1): Acknowledgr 575	01441bt 7320teris	EMERGENCY PH		<b>2):</b> Ackno	wledgment of	PROFILE NO.  In the second of					
T	( )			`			p. 0. III					
E R	PRINTED/TYPED NAME 1 Ciles C	una	= PRINTED/TYPEI	NAME _			<del>-</del>					
S	PRINTED/TYPED NAME 1 Cles C	DATE	SIGNATURE			Г	DATE					
	DIGITAL UKL	-	51GNATURE									
	I an I and I I C	ADDRESS:	ila Markor 64 II	С П	u 62/10	PHONE:	575 00	7 1010				
D F	Lea Land, LLC		ile Marker 64, U.	•		U,	2/2-88	7-4048				
I A	DEDMIT NO	30	Miles East of C	arisbad	, INIVI							
SC	PERMIT NO.  WM-01-035 - New Mexicol	ico	20. COMMENTS									
P I O L												
SI	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the											
A T	facility is authorized and permitted to receive such w	astes.			1		11:					
LY	AUTIORIZED SIGNATURE		CELL NO.		DATE		TIN	5.40				
	MINTON / DON	70 17						4.				
-		NULL			-	ויכות למדיניו	The second					

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

#### LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236	-4257
---	-------

	1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257											
NON	-HAZARDOUS WASTE MANIF	EST	NO 14	18089	9	1. PAG	GEOF_	_ 2. TRAIL	ER NO.	1745		
	3. COMPANY NAME	4.5502	RESS Champ	ion Dr.		•	5. PJ	951672027				
G	E.O.G Resources PHONE NO.	CITY		STATE		2	ZIP 6. Ti	NRCC I.D. NC	).			
E	(432) 686-3705	_Midl:	and	TX			708 TAINERS	9. TOTAL	10 UNIT	11 TEVAS		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	:D:			· ·	No.	Type	QUANTITY	Wt/Vol.	WASTE ID #		
N	a. Non-Regulated, Non Hazardous Was	to				4	СМ		V			
	b.	10				-	CIVI					
E	c.		-									
		- >										
R	"WT.3X37D 381	20										
	12. COMMENTS OR SPECIAL INSTRUCTIONS:				MI			13. WASTE P	ROFILE NO	Э.		
A	MADISON FEE COM # 1			10	76	144	2					
				ENCY OF	R SPILL	, CON	NTACT					
T	NAME JOE ONTIVEROS	PHON	ie no <b>887-4048</b>					24-HOUR	EMERGE	NCY NO.		
				the contents of	of this con	sianmen	it are fully a	nd accurately	described at	ove by proper		
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC											
R	PRINTED/TYPED NAME			SIGNATUR	RE					DATE		
	CO. MAN: JAMES KENNEDY											
T	16. <b>TRANSPORTER (1)</b>			17. TRANSPORTER (2)								
R A	NAME: SDR ENTERPRIS	Ee		NAME:								
N	TEXAS I.D. NO.	<u> </u>		TEXAS I.I	D. NO.							
S P	IN CASE OF EMERGENCY CONTACT:	NNON	RUSK	IN CASE	OF EMER	GENCY	CONTAC	Γ:	TY Wt/Vol. WASTE ID #  Y  PUR EMERGENCY NO.  PUR EM			
O R	EMERGENCY PHONE: 1575	) 441-	7330	EMERGE								
T	18. TRANSPORTER (1): Acknowledgment of	f receipt	of material	19. <b>TRA</b>	NSPOR'	TER (	2): Acknow	vledgment of r	eceipt of ma	aterial		
E R	PRINTED/TYPED NAME EGT	)NG	UJO	PRINTED	O/TYPED N	NAME _						
S	SIGNATURE FOR GOLD	DATE	11/16	<b>′202</b> 9NATU	JRE			D	ATE			
		ADDI	RESS:					PHONE:				
D F	Lea Land, LLC			Marker			•	),	575-88	7-4048		
I A			30 N	Iiles, East		lsbad	, NM					
S C P I	WM-01-035 - New Mex	ico		20. COMMI	ENTS							
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w		: I Hereby c	ertify that the	e above des	scribed v	wastes were	delivered to th	is facility, t	hat the		
T 3/	AU HORIZED SIGNATURE	^		CELL NO	D		DATE		TIM	IE 15		
	Modern Montality							1/18/2021		40		
ENIED	ATOR: COPIES 1 & 6	DISI	POSAL SITE	CODIEC 2	0. 2	_	-		ODTEDS: (	OPIES 4 & 5		

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

#### LEA LAND, LLC

	1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257									
NON	N-HAZARDOUS WASTE MANIF	EST	NO 14	18092	1. PA	GE	OF	2. TRAIL	ER NO.	D38
	3. COMPANY NAME	4.5500	RE Champ	ion Dr.		T	5. PIGK	167202F		
G	E.O.G Resources PHONE NO.	CITY		STATE		ZIP	6 TNID	CC I.D. NO		
							O. TNK	CC I.D. NO		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	Midla	and	TX	7 <u>9</u> 8. CON	706 TAINE	RS 9	TOTAL	10. UNIT	11. TEXAS
		.D.			No.	Тур	QI.	JANTITY	Wt/Vol.	WASTE ID#
N	a.   Non-Regulated, Non Hazardous Was	te			1	CI	и		Y	
	b.									
E	c.									
	(RION: TWD			:	l			p.)		
R	47100	40,100								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:			13. WASTE PROFILE NO.						),
A	MADISON FEE COM#1									
_	14. IN CA	SE OF		ENCY OR SPIL	L, CON	NTAC	<u>T</u>	24-HOUR	EMERGEN	ICY NO
T	JOE ONTIVEROS	575-8	887-4048					2.110011	22	
	15.GENERATOR'S CERTIFICATION:									
0	shipping name and are classified, packed, marked, an international and national government regulations, in									
R	PRINTED/TYPED NAME			SIGNATURE						DATE
K	CO. MAN: JAMES KENNEDY									
T	16. TRANSPORTER (1)			17. TRANSPORTER (2)						
R A	NAME: SDR ENTERPRIS	Ee.		NAME:						
N	TEXAS I.D. NO.			TEXAS I.D. NO.						
S P	IN CASE OF EMERGENCY CONTACT:	NNON	RUSK	IN CASE OF EME	RGENCY	CON	ГАСТ:			
0	EMERGENCY PHONE: (575	1111	7330	EMERGENCY PHO	ONE:					
R T	18. TRANSPORTER (1): Acknowledgment of			19. TRANSPOR	RTER (	<b>2):</b> Ac	knowled	dgment of r	eceipt of ma	nterial
E R	PRINTED/TYPED NAME STEPHEN T	ray	(5	PRINTED/TYPED	NAME					
S	SIGNATURE THE MIN MAY	DATE	11/18	2621NATURE				D	ATE	
		ADDF	-				*	PHONE:		_
	Lea Land, LLC	ADDI		Marker 64, U.S	S. Hw	y 62/	180,	THONE.	575-887	7-4048
D F	,			files East of Ca						
I A S C	PERMIT NO.			20. COMMENTS						
P I O L	WM-01-035 - New Mex	1CO								
S I	21.DISPOSAL FACILITY'S CERTIFIC		: I Hereby c	ertify that the above de	escribed	wastes	were del	ivered to th	is facility, tl	nat the
A T L Y	facility is authorized and permitted to receive such w	astes.				T				
	AUTIORIZED SIGNATURE	7	76	CELL NO.		D/	ATE		TIM	E 35
	Junto II	XU	辽				11/	16/2021	}	
FNFR	VOR: COPIES I & 6	DISI	TIP IAPO	: COPIES 2 & 3				TRANSPO	ODTEDS. C	OPIES 4 & 5

COPY 1

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

#### LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

					_					
NON	I-HAZARDOUS WASTE MANIF	EST NO 1	18093	1. PAG	GEOF	2. TRA	ILER NO.	D43		
	3. COMPANY NAME	4.5508 Champ	ion Dr.		5.	P4GK-147202	F			
G	E.O.G Resources PHONE NO.	СІТҮ	STATE	2	ZIP 6.	TNRCC I.D. N	IO.			
E	(432) 686-3705	Midland	TX		708 TAINERS	9. TOTAL	10. UNIT	11. TEXAS		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		No.	Type	QUANTITY		WASTE ID #		
N	a. Non-Regulated, Non Hazardous Was	te		_1_	CM		<u>Y</u> .			
E	с.									
R	<sup>d</sup> wт : 31174D									
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE	PROFILE N	0.		
A	MADISON FEE COM#1									
			ENCY OR SPIL	L, CON	NTACT					
T	NAME	PHONE NO				24-HOL	R EMERGE	NCY NO.		
	JOE ONTIVEROS	575-887-4048								
0	15. <b>GENERATOR'S CERTIFICATION:</b> I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLO									
D .	PRINTED/TYPED NAME		SIGNATURE					DATE		
R	CO MAN MUSEUMERY									
	CO. MAN: JAMES KENNEDY		17. TRANSPORTER (2)							
T R	16. <b>TRANSPORTER (1)</b>		17.	TR	KANSPO	ORTER (2)				
A	NAME:		NAME:							
N	SDR ENTERPRIS	<u>ES</u>	TEXAS I.D. NO.							
S										
P	IN CASE OF EMERGENCY CONTACT: SHA	NNON RUSK	IN CASE OF EME	ERGENCY CONTACT:						
O R	7 - 1 -	) 441-7330	EMERGENCY PH							
T	18. TRANSPORTER (1): Acknowledgment of	of receipt of material	19. <b>TRANSPO</b>	RTER (	2): Ackn	owledgment of	receipt of m	aterial		
E R	PRINTED/TYPED NAME/ Max Ca	rrasco I	PRINTED/TYPED	NAME _				_		
S	SIGNATURE MAX CARRACES T	DATE11/16	<b>202</b> NATURE				DATE			
		ADDRESS:				PHONE				
	Lea Land, LLC		Marker 64, U.		,	30,	575-88	7-4048		
D F I A		30 N	Iiles East of Ca	arlsbad	, NM					
S C	PERMIT NO.		20. COMMENTS							
P I	WM-01-035 - New Mex	ico								
O L	21.DISPOSAL FACILITY'S CERTIFIC	ATION: I Hereby	ertify that the above d	escribed v	wastes we	re delivered to	this facility	that the		
A T	facility is authorized and permitted to receive such w		o.m., mai me above u	oseriocu v	usics wel	o delivered to	ans racility,	and the		
LY	AUTHORIZED SIGNATURE	$\bigcap$	CELL NO.		DAT	E	TIN	ME 35		
	/ Yantin / An	70/12				44/40/000	, [ ]			
		MILL			_	11/18/202		, i		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

COPY 1

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

#### LEA LAND, LLC

	1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257									
NON	I-HAZARDOUS WASTE MANIF	EST	NO 14	8094	1	. PAGE_	_OF	2. TRAIL	ER NO.	052
	3. COMPANY NAME	4.550	RE Champ	on Dr.			5. P4Q	4167201TF		
G	E.O.G Resources PHONE NO.	CITY		STATE		ZIP	6 TNR	CC I.D. NO	).	
E	(432) 686-3705	Midla	and	TX.		79706				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. C	ONTAIN  D.   Ty		). TOTAL UANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	a. Non-Regulated, Non Hazardous Was	te					СМ		Υ	
E	c.				+	-				
R	dwt 38620							WACTE D	DOEN E N	
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:  MADISON FEE COM # 1						13	. WASTE P	ROFILE NO	J.
	14. IN CA	SE OF	EMERG	ENCY OR	SPILL, C	CONTA	CT			
Т	NAME	PHON			,			24-HOUR	EMERGEN	NCY NO.
_	JOE ONTIVEROS	887-4048								
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC									
R	PRINTED/TYPED NAME			SIGNATURE						DATE
	CO. MAN: JAMES KENNEDY									
T	16. TRANSPORTER (1)			17. TRANSPORTER (2)						
R A	NAME:			NAME:						
N	TEXAS I.D. NO.	ES.		TEXAS I.D.	NO.					
S P	IN CASE OF EMERGENCY CONTACT:	NINION	I RUSK	IN CASE OF	F EMERGE	NCY CO	NTACT:			
0	EN CEN CENTON BUILDING	1444		EMERGENO	CY PHONE					
R T	18. TRANSPORTER (1): Acknowledgment of			19. <b>TRAN</b>	SPORTE	R (2): A	Acknowle	dgment of r	eceipt of ma	aterial
E R	PRINTED/TYPED NAME, JAYCOL 1	2050	231	PRINTED/T	TYPED NAI	ME <sub></sub>				
S	SIGNATURE	DATE	11/18	<b>2021</b> natur	LE			D	ATE	
		ADD	RESS:					PHONE:		
D F	Lea Land, LLC			Marker 64 liles East o	-				575-88	7-4048
I A S C P I O L	PERMIT NO. WM-01-035 - New Mex	ico		20. COMMEN	NTS					
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w		N: I Hereby c	ertify that the a	above descri	bed waste	s were de	livered to th	is facility, t	hat the
LY	AUTHORIZED SIGNATURE	$\bigcap$	17	CELL NO.			DATE	(48/2024	TIM	1E, 25
	The state of the s						11	/18/2021	-	-

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

COPY 1

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

	1300 WEST MAIN STRE	EET • OK	LAHOMA	A CITY, OK 73106 • P	PHONE (4	405) 236-4	257	DI	)K		
NON	N-HAZARDOUS WASTE MANIFE	ST	NO 14	18111	1. PA	GEOF_	2. TRAII	ER NO.	052		
	3. COMPANY NAME 4.	550gRE	Champ	ion Dr.		5. F	1977-1477-2027				
G	E.O.G Resources PHONE NO. C.	ITY		STATE		ZIP 6. 7	NRCC I.D. NC	).			
E	(432) 888-3705	Midlan	d	TX	70	708					
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		rea	7.44	8. CON	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#		
N	a.							10.2			
	Non-Regulated, Non Hazardous Waste			-	1_	CM		Y_			
E	c. 41000										
	Sur 21,020 112	nn	1	28571							
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:  13. WASTE PROFILE NO.										
A	MADISON "1" FEE COM#1			TO 15	735	O					
		E OF E	MERG	ENCY OR SPIL	L, CON	TACT					
T		PHONE					24-HOUR	EMERGEN	NCY NO.		
			7-4048								
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by prope shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC										
R	PRINTED/TYPED NAME	SIGNATURE					DATE				
	CO. MAN: JAMES KENNEDY										
T R	16. TRANSPORTER (1)			17. TRANSPORTER (2)							
A	NAME: SDR ENTERPRISES	3		NAME:							
N S	TEXAS I.D. NO.	=		TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT: SHANI	NON I	RUSK	IN CASE OF EMERGENCY CONTACT:							
O R	EMERGENCY PHONE: (575) 18. TRANSPORTER (1): Acknowledgment of re-	441-73	3C	EMERGENCY PHO		2)	1.1				
T E				19. TRANSPOR	CIER (	Z): Ackno	wledgment of r	eceipt of ma	aterial		
R	PRINTED/TYPED NAME JAYOO ROS	XIS)	-	PRINTED/TYPED	NAME_						
S	SIGNATURY D.	ATE	11/17	2019NATURE			D	ATE			
		ADDRE	SS:				PHONE:				
D F	Lea Land, LLC			Marker 64, U.S		·	0,	575-88	7-4048		
I A	DEDMITNO		30 N	Iiles East of Ca 20. COMMENTS	risbad	, NM					
S C P I O L	WM-01-035 - New Mexico	0		20. COMMENTS							
S I A T	21.DISPOSAL FACILITY'S CERTIFICAT facility is authorized and permitted to receive such wast		Hereby co	ertify that the above de	escribed v	vastes were	e delivered to th	is facility, the	hat the		
أأضا	AUTHORIZED SIGNATURE	Н	CELL NO.	-	DATE		TIA	y. 40			
	I WALL JUNG	all	EL				11/17/2021		),		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

1300 WEST MAIN STREET OREATIONA CITT, OR 75100 THONE (403) 230-4257											
NON	N-HAZARDOUS WASTE MANIF			8112	1. PAC	GEOF		2. TRAIL	ER NO.	043	
	3. COMPANY NAME	4. <b>9609</b> RE	Shamp	ion Dr.		5.	PICKIC	7/202E			
G	E.O.G Resources										
	PHONE NO.	CITY		STATE	Z	ZIP 6.	TNRCC	C I.D. NO.			
E	(432) 686-3705	Midlan	d	TX.	79	79706					
_	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CONT		1	OTAL	10. UNIT	11. TEXAS	
					No.	Туре	QUA	NTITY	Wt/Vol.	WASTE ID#	
N	<sup>a.</sup>   Non-Regulated, Non Hazardous Was	ite			1	СМ			Y		
	b. (711)	12110									
E	42440										
	c.										
	DWT: 17 GAD 10027										
R	42940 40940 40020										
	12. COMMENTS OR SPECIAL INSTRUCTIONS:  13. WASTE PROFILE NO.										
A	MADISON "1" FEE COM # 1		_	To II	1103	40					
	14. IN CA	SE OF E	MERG	ENCY OR SPIL	L. CON	TACT	4				
Т	NAME	PHONE			,		24	4-HOUR	EMERGE	NCY NO.	
1	JOE ONTIVEROS	575-88	37-4048								
	15.GENERATOR'S CERTIFICATION:	I Hereby de	clare that	the contents of this co	nsignment	are fully	and ac	curately o	described at	pove by proper	
O	shipping name and are classified, packed, marked, and international and national government regulations, in										
	international and national government regulations, in	eruding appi	ilcable stat	e regulations, and are	the same	materiais	previou	isiy appio	ved by LE?	A LAND, LLC	
R	PRINTED/TYPED NAME			SIGNATURE						DATE	
	CO. MAN: JAMES KENNEDY										
Т	16. TRANSPORTER (1)		17. TRANSPORTER (2)								
R	NAME: COR FAITERPRIS			NAME:							
A	SUR ENTERPRIS	ES									
N S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT: SHA	NONN	RUSK	IN CASE OF EME	RGENCY	CONTA	CT:				
0	EMERGENCY PHONE: (575	5) 441-73	30	EMERGENCY PH	ONE:						
R T	18. TRANSPORTER (1): Acknowledgment of	of receipt of	material	19. TRANSPOI	RTER (	<b>2):</b> Ackn	owledgi	ment of re	eceipt of m	aterial	
E	DRINTED/TYPED NAME: MANY CAS	IVACA	271	PRINTED/TYPED	NAME						
R	PRINTED/TIFED NAME) (1) UN	JUSE	<u>U</u>	PRINTED/TTPED	NAME _						
S	SIGNATURE PRINTED NAME MAX CAR	DATE	11/17	2021 <sub>NATURE</sub>				D.	ATE		
	17-000 (01)000	ADDRE						PHONE:			
	Lea Land, LLC	ADDRE		Marker 64, U.	C LIVA	, 62/19			575-88	7-4048	
F	Lea Lailu, LLC			files East of Ca	_		30,		373-00	7-4040	
I A	DED VIE VO		30 IV	11	ii isbau,	NIVI					
SC	PERMIT NO.  WM-01-035 - New Mex	ico		20. COMMENTS							
P I D L											
SI	21.DISPOSAL FACILITY'S CERTIFIC		I Hereby c	ertify that the above d	escribed v	vastes we	re delive	ered to th	is facility, t	hat the	
A T	facility is authorized and permitted to receive such w	vastes.									
LY	AUTHORIZED SIGNATURE	$\wedge$		CELL NO.		DATE TIME, 45			4E. 15		
	/ hotel. I have	$\sim ()_{\alpha}$	Z				4424	7 (000 4	>	( T)	
	I IM IIM XXXIIH						11/1	7/2021		<i>)</i>	

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

	1300 WEST MAIN ST	KLLI (	JKLAITOWI	1 CIT 1, OK 751	100 111	OIVE (VI	250-42	.51	DL	K		
NON	N-HAZARDOUS WASTE MANIF			48113		I. PAG	EOF_	3. N. Y. DW	1-1-1-1-1-1	045		
	3. COMPANY NAME	4.5000	REShamp	ion Dr.			5. P	dk47/2021		100		
G	E.O.G Resources											
	PHONE NO.	CITY		STATE		Z	IP 6. T	NRCC I.D. NO	).			
	7422Ve0e 2705	1.4:-0.		TV		707						
E	(432) 686-3705	Midla	ena	TX.	8	797	AINERS	9. TOTAL	10. UNIT	I I. TEXAS		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			- 1	No.	Type	QUANTITY	Wt/Vol.	WASTE ID #		
N	a.											
14	Non-Regulated, Non Hazardous Was	te				1	CM		Y			
	b. /1107/)											
E	c.			10		-			-			
	49130											
	WT 2752D 1105D 1107AM											
R	" 0 1000 41000 4T100											
,	12. COMMENTS OR SPECIAL INSTRUCTIONS:				0			13. WASTE P	ROFILE N	О.		
A	MADISON "1" FEE COM # 1		-	72 110	01.	IN						
		CE OF			111	10	T. CT.					
	14. IN CA	SE OF		ENCY OR S	SPILL,	CON	TACT	24 40110	EMERGE	NCV NO		
T								24-1100K	EWIERGE	VC I NO.		
	JOE ONTIVEROS		887-4048									
0	15.GENERATOR'S CERTIFICATION:	I Hereby	declare that	the contents of t	his cons	ignment	are fully a	and accurately	described al	bove by proper		
0	shipping name and are classified, packed, marked, and international and national government regulations, in											
	***											
R	PRINTED/TYPED NAME			SIGNATURE						DATE		
	CO. MAN: JAMES KENNEDY				TDANGBORTER (A)							
T	16. <b>TRANSPORTER (1)</b>			17.	7. TRANSPORTER (2)							
R	NAME:			NAME:								
A N	SDR ENTERPRIS	ES <sub>a</sub>										
S	TEXAS I.D. NO.			TEXAS I.D. NO.								
P	IN CASE OF EMERGENCY CONTACT:	NNON	RUSK	IN CASE OF	EMERO	GENCY	CONTAC	T:				
0		3 441		EMERGENC	Y PHON	JF.				- 1		
R	18. TRANSPORTER (1): Acknowledgment of						: Acknow	wledgment of i	eceipt of ma	aterial		
T	C/ 11 0-	1	v 2			`			•	- 1		
E R	PRINTED/TYPED NAME COY F)	W.	10	PRINTED/T	YPED N	AME_						
S	El Bar	5.100	11.15									
	SIGNATURE	DATE	11/17	2000 NATURE					DATE			
		ADDI	RESS:					PHONE:				
	Lea Land, LLC		Mile	Marker 64	, U.S.	Hwy	62/180	),	575-88	7-4048		
D F	,			Tiles East o						- 1		
IA	PERMIT NO.			20. COMMEN		.oo a cy						
S C P I	WM-01-035 - New Mex	ico		ZO. COMMILIA	10							
P I O L												
SI	21.DISPOSAL FACILITY'S CERTIFIC	ATION	: I Hereby o	ertify that the ab	ove desc	cribed w	astes were	delivered to the	nis facility, t	hat the		
A T	facility is authorized and permitted to receive such w	astes.										
LY	AUTI ORIZED SIGNATURE		/\	CELL NO.	/		DATE		TIN	1E, ZD		
	Mata / Ma	MA	1/24						(	D. O.		
4	JUNIUS X NO	tel	UL					1/17/2021		0.		

GENERATOR: COPIES I & 6

DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

I	EA	A	ND	. I	L	C
_		7 7	1	9 —	_	$\overline{}$

1300 WEST MAIN STREET • 0	OKLAHOMA CITY, OK	C 73106 • PHONE (405) 236-4257
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	1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257										
NON	N-HAZARDOUS WASTE MANIF			8148	1. PA	GEOF	2.	TRAIL	ER NO.	D43	
	3. COMPANY NAME	4.6500	RE&hamp	on Dr.		5,	PION I	202年			
G	E.O.G Resources PHONE NO.	CITY		STATE		ZIP 6.	6. TNRCC I.D.				
E	(432) 686-3795	Midla	enc	TX.	70	708 TAINERS					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			No.	TAINERS Type	9. TO QUAN		10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	å.										
	Non-Regulated Non Hazardous Was	to	-		1	CM			V		
E	41100										
	с.										
R	dwt 43920 45740 43540										
	12. COMMENTS OR SPECIAL INSTRUCTIONS:			- 141	10	>	13. WA	ASTE PF	ROFILE NO	).	
A	MADISON "1" FEE COM#1		10	2 114	40	0					
				ENCY OR SPIL	L, CO	NTACT	2.4	HOLID	EMERGEN	IGVANO	
T	NAME	PHON					24-	HOUR	EMERGE	NCY NO.	
0	JOE ONTIVEROS 575-887-4048  15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC										
5	PRINTED/TYPED NAME		1	SIGNATURE			•			DATE	
R				SIGIAII GILE							
T	CO. MAN: JAMES KENNEDY  16. TRANSPORTER (1)			17.	Т	RANSPO	DTFD	(2)			
R					11	ANSI	JKIEN	(2)			
A	NAME: SDR ENTERPRIS	ES		NAME:							
N S	TEXAS I.D. NO.	(/)		TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:	NNON	RUSK	IN CASE OF EME	RGENC	Y CONTA	CT:				
O R	EMERGENCY PHONE:	NAME AND ADDRESS OF		EMERGENCY PH		(0)					
T	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. <b>TRANSPO</b>	RTER (	( <b>2):</b> Ackn	owledgm	ent of re	eceipt of ma	aterial	
E R	PRINTED/TYPED NAME MAX CA	y va s	10_	PRINTED/TYPED	NAME .						
S	PRINTED/TYPED NAME MAX CANTAGE SIGNATURE PRAX CANTAGE	<b>W</b> ATE	11/18	2009NATURE				Di	ATE	_	
		ADDI	RESS:				PH	IONE:			
D F	Lea Land, LLC			Marker 64, U.		~	30,		575-88	7-4048	
I A			i	liles East of Ca	arlsbad	<u>, NM</u>					
S C P I	WM-01-035 - New Mex	ico		20. COMMENTS							
O L S I	21.DISPOSAL FACILITY'S CERTIFIC		: I Hereby c	ertify that the above d	lescribed	wastes we	re deliver	ed to thi	is facility, t	hat the	
A T L Y	facility is authorized and permitted to receive such w	vastes.				Т.					
LY	AUTAORIZED SIGNATURE	Za	007	CELL NO.		DAT	11/18	/2024	TIA	(E, 5D)	
GENER	OR: COPIES I & 6	DIST	POSAL SITE	: COPIES 2 & 3				-	ORTERS: (	COPIES 4 & 5	

COPY 1

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

	1300 WEST MAIN S			CITY, OK 73106	• PHONE (	(405) 236-42	257	SE	)R		
NON	N-HAZARDOUS WASTE MANIE	FEST	NO 14	8149	1. PA	GEOF_	2, TRAIL	ER NO.	052		
G	3. COMPANY NAME	4. ADD 5508	RESS Champ	ion Dr.		5. P	ICK-UP DATE 11/18/2021				
ď	PHONE NO. Resources	CITY		STATE		ZIP 6. T	NRCC I.D. NC	).			
E	(432) 686-3705 7. NAME OR DESCRIPTION OF WASTE SHIPP	Midle ED:	STIC	TX.	8, CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT	11. TEXAS WASTE ID #		
N	a. Non-Regulated, Non Hazardous Wa.	cto			110.	CM	Q0/11/11/11	W V V V	WHOTE ID II		
E	b.	ste.				CIVI					
R	d. wт ; 398803	69	180	3550	D		12 WACTE D	DOELE N			
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:  MADISON "1" FEE COM#1  13. WASTE PROFILE NO.										
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO.										
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by prosphipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, L										
R	PRINTED/TYPED NAME			SIGNATURE					DATE		
	CO MAN. JAMES KENNEDY			17. TRANSPORTER (2)							
T R	16. TRANSPORTER (1)			17. TRANSPORTER (2)							
A N	NAME:  TEXAS I.D. NO.  SDR ENTERPRIS	SES <sub></sub>		NAME: TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:							
0	EMERGENCY PHONE:		RUSK	EMERGENCY PHONE:							
R T	18. TRANSPORTER (1): Acknowledgment	of receipt	of material	19. TRANSPO	ORTER	(2): Acknow	wledgment of r	eceipt of m	aterial		
E R	PRINTED/TYPED NAME JAYCOB	Rosa	ales_	PRINTED/TYPI	ED NAME						
S	SIGNATURE 7-12-	DATE	11/18	SIGNATURE _				ATE	- EMC/A		
18-		ADDI	RESS:	,,			PHONE:				
D F	Lea Land, LLC			Marker 64, Uliles East of 0			0,	575-88	7-4048		
I A S C P I				20. COMMENTS		79 T 41VI	111				
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		: I Hereby c	ertify that the above	e described	wastes were	delivered to th	nis facility, t	hat the		
L Y	AUTHORIZED SIGNATURE	07.0	0.7	CELL NO.		DATE		TIN	ME (D		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

	1300 WEST MAIN ST			ND, LLC A CITY, OK 73106 •	PHONE (	(405) 236-42	257	30	2		
NON	N-HAZARDOUS WASTE MANIF	EST	NO 14	18150	1. PA	.GEOF_	2, TRAII	ER NO.	045		
G	3. COMPANY NAME	4. AND	Champ	STATE         ZIP         6. TNRCC I.D. NO.							
J	E.O.G Resources PHONE NO.	CITY									
E	(432) 686-3705 7. NAME OR DESCRIPTION OF WASTE SHIPPE	Midle ED:	and	TX.	8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	å.					201.1					
E	Non Regulated, Non Hazardous Was b. 30,440 c.	<del>te</del>			1	CM		Y			
R	WT 42130 400	681	) (	37820							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:		_		- 1	MA	13. WASTE P	ROFILE NO	O.		
A	MADISON "1" FEE COM # 1  14. IN CA	SE OF	EMEDO	ENCY OR SPII	1 (0)	VITACT.					
Т	NAME	PHON		ENCY OR SPII	LL, COI	VIACI	24-HOUR	EMERGE	NCY NO.		
0	JOE ONTIVEROS  15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and the control packed, and the	I Hereby d labeled,	and are in al	the contents of this c	ondition fo	or transport	by highway acc	ording to ap	plicable		
	PRINTED/TYPED NAME	iciuding ap	opiicable sta	SIGNATURE	the same	materials p	neviously appro	-			
R	CO. MAN: JAMES KENNEDY			0.01.11.01.0							
T	16. TRANSPORTER (1)			17.	TF	RANSPO	RTER (2)	ly according to applicable approved by LEA LAND, LLC  DATE			
R A	NAME: SDR ENTERPRIS	SES.		NAME:							
N S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P O		NON	RUSK	IN CASE OF EMERGENCY CONTACT:							
R T	18. TRANSPORTER (1): Acknowledgment (	of receipt	7330 of material	19. TRANSPO		(2): Acknow	wledgment of r	eceipt of ma	aterial		
E R	PRINTED/TYPED NAME FLOY AN	du.	10	PRINTED/TYPE	D NAME						
S	SIGNATURE & ELOS	DATE	11/18	2029 NATURE			D	ATE			
		ADDF		N. 1. (4.1)		60/10/	PHONE:	555 00	7.4040		
D F	Lea Land, LLC			Marker 64, U Tiles East of C		-	J,	575-88	/-4048		
I A S C P I O L	PERMIT NO.  WM-01-035 - New Mex	ico		20. COMMENTS							
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		: I Hereby c	ertify that the above	described	wastes were	delivered to th	is facility, t	hat the		
L Y	AUTAORIZED SIGNATURE	70	Dz.	CELL NO.		DATE	14/48/2024	TIA	\$.55 5.		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	1300 WEST MAIN ST				ND, L		HONE (	405) 236	5-4257		50	R	
NON	N-HAZARDOUS WASTE MANIF	EST	NO	14	818	5	1. PA	GEC	DF	2. TRAIL	ER NO.	045	
G	3. COMPANY NAME  E.O.G Resources		RESS Cha	mpic	n Dr.				5. PICK-UP-DATE				
E	PHONE NO	CITY	and		STATE			ZIP (	5. TNF	RCC I.D. NC			
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	LAILPAIL	of Time				8. CON No.	TAINER Type		9. TOTAL UANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#	
N	b. 1107	te					_1_	_CM	4		Y_		
E	c. 41026		-					-	+				
R	d. wт: 4DU8D С	132	X	)	40	920							
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:  MADISON "1" FEE COM # 1				_	10	14	59	00	3. WASTE P	ROFILE NO	O.	
Т	14. IN CA	ASE OF		RGE	NCY OI	R SPIL	L, CO	NTAC	Γ	24-HOUR	EMERGE	NCY NO.	
	JOE ONTIVEROS		387-40										
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	id labeled,	and are	in all i	espects in p	proper cor	ndition fo	or transp	ort by	highway acc	ording to ap	plicable	
R	PRINTED/TYPED NAME				SIGNATUR	Œ						DATE	
Т	16. TRANSPORTER (1)			+	17.		TP	ANSI	POP'	ΤΕ <b>R</b> (2)			
R A N	NAME: TEXAS I.D. NO.	<u>ES</u>			NAME: TEXAS I.	D. NO.	11	ANGI	OK	IEN (E)			

EMERGENCY PHONE: (575) 444 7330

18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME

SIGNATURE PHONE:

ADDRESS: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180,

SHANNON RUSK

30 Miles East of Carlsbad, NM

**EMERGENCY PHONE:** 

IN CASE OF EMERGENCY CONTACT:

575-887-4048

PERMIT NO. WM-01-035 - New Mexico

IN CASE OF EMERGENCY CONTACT:

**EMERGENCY PHONE:** 

P

0

R

T E

R S

F

C

I

T A L Y

S I 20 COMMENTS

21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUT ORIZED SIGNATURE

CELL NO.

11/19/2021

GENERATOR: COPIES 1 & 6 Released to Imaging: 9/13/2022 2:25:32 PM DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

	1500 WEST WAIN ST	ICEE I	JIEL HIOWI	1 011 1, 011 75 100 1	HOILE (	103) 230-12	1	2	<b>T</b>		
NOI	N-HAZARDOUS WASTE MANIF			8186	1. PA	GEOF_	2. TRAI	LER NO.	043		
	3. COMPANY NAME	45508F	Champ	on Dr.		5. P.	19/44/2021				
G	E.O.G Resources PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO	).			
E	(400) 000 0705	F 85 10		-							
L	(432) 686-3705 7. NAME OR DESCRIPTION OF WASTE SHIPPE.	D:	nd	TX.	8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	a.										
	Non-Regulated, Non Hazardous Wast	9			1	CM_		Y			
	41120										
E	c.										
R	WT:391000 415	740		41120							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:			1111			13. WASTE F	ROFILE N	О.		
A	MADISON "1" FEE COM#1		,	10	103	680					
	14. IN CA	SE OF	<b>EMERG</b>	ENCY OR SPIL	L, CO	NTACT					
Т	NAME	PHON	E NO				24-HOUR	EMERGE	NCY NO.		
_	JOE ONTIVEROS	575-8	87-4048								
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, inc	d labeled,	and are in al	l respects in proper con	ndition fo	or transport	by highway ac	cording to ap	plicable		
	PRINTED/TYPED NAME			SIGNATURE					DATE		
R											
	CO. MAN: JAMES KENNEDY	**									
T	16. TRANSPORTER (1)			17.	TF	RANSPO	RTER (2)				
R A	NAME:			NAME:							
N	SDR ENTERPRISE	<u>ES</u>		TEYASID NO							
S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:	NON	RUSK	IN CASE OF EME	RGENCY	Y CONTAC	CT:				
0	EMERCENCY BUONE	1441-7	220	EMERGENCY PH	ONE:						
R T	18. TRANSPORTER (1): Acknowledgment o	receipt	of material	19. TRANSPOR	RTER (	(2): Ackno	wledgment of	receipt of m	aterial		
E R	PRINTED TYPED NAME I hust Carr	asc	0	PRINTED/TYPED	NAME.						
S	Diese Program										
	SIGNATURE PLAX CARRAGO	DATE	11/19/	202¢NATURE			I	DATE			
	,	ADDR	ESS:				PHONE:				
	Lea Land, LLC		Mile	Marker 64, U.S	S. Hw	y 62/18	0,	575-88	7-4048		
D F			30 N	files East of Ca	arlsbad	, NM					
I A	PERMIT NO.	20. COMMENTS		<u> </u>							
S C P I	WM-01-035 - New Mexi	20. 00.00.00									
O L S I	21.DISPOSAL FACILITY'S CERTIFICA	ATION	: I Hereby c	ertify that the above de	escribed	wastes were	delivered to the	nis facility, t	hat the		
AT	facility is authorized and permitted to receive such w		-					-			
L Y	AUTHORIZED SIGNATURE	MA	0	CELL NO.	/	DATE	11/19/2021	TIN	2.40		
	X MM X M	TIL	VVC			1			0		

GENERATOR: COPIES I & 6

DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

1/0107

<	50	R
RAIL	ER NO.	052
<b>02</b> F		
D. NO	).	
AL	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	V	

NUI	N-HAZARDOUS WASTE MANIF	ESI	NO T	+0T01	I. PA	GE	)r	2. IRAIL	ER NO.	000	
G	3. COMPANY NAME	45500	REShampi	ion Dr.			5. BIG	4 <u>\$1202</u> F			
	E.O.G Resources PHONE NO.	CITY		STATE		ZIP	6. TNR	CC I.D. NO			
E	<del>(432) 686-3705</del>	Mide	and-	TX.	79	708					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			8. CON No.	TAINEI Type		O, TOTAL UANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	a. Non-Regulated Non-Hazardous Was	to			_1_	CI	A		V		
	39170										
E	c.										
R	WT: 4008D 39	921		40080							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:			7 1-0	207		13	8. WASTE PI	ROFILE N	O.	
A	MADISON "1" FEE COM#1			C 154,	ZDC	)					
Т	NAME IN CA	PHON		ENCY OR SPIL	L, CO	NTAC	Γ	24-HOUR	EMERGE	NCY NO.	
	,IOE ONTIVEROS		887-4048								
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	id labeled,	, and are in al	l respects in proper con	ndition fo	or transp	ort by	highway acc	ording to ap	oplicable	
R	PRINTED/TYPED NAME			SIGNATURE						DATE	
	CO. MAN: JAMES KENNEDY										
T	16. <b>TRANSPORTER (1)</b> 17.				TI	RANS	PORT	ΓER (2)			
R A	NAME: SDR ENTERPRIS	NAME:									
N S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:	NON	RUSK	IN CASE OF EMERGENCY CONTACT:							
O R	EMERGENCY PHONE:	5) 444-	7330	EMERGENCY PH		(2)					
T	18. TRANSPORTER (1): Acknowledgment			19. TRANSPOR	KIEK	( <b>2):</b> Ac	knowle	dgment of re	eceipt of m	aterial	
E R	PRINTED/TYPED NAME / Daycob	<u> 205</u>	ales	PRINTED/TYPED	NAME						
S	SIGNATURE	DATE	11/10	2026NATURE				<u>D</u> .	ATE		
		ADD	RESS:					PHONE:			
D F	Lea Land, LLC			Marker 64, U.			-		575-88	7-4048	
I A	30 Miles E				irlsbac	i, NM	_		_		
S C P I O L	PERMIT NO. WM-01-035 - New Mexico										
S I	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		: I Hereby o	ertify that the above d	escribed	wastes v	vere de	livered to th	is facility, t	hat the	
A T L Y	AUTHORIZED SIGNATURE		^	CELL NO.		D	ATE		TIN	ME. 50	
	Dantos Lon	70	07					/19/2021		8.	

GENERATOR: COPIES I & 6

DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

#### LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

	1300 WEST MAIN STE	CLLI	JKLAHOWI	4 CIT 1, OK 75100 - 1	HONE (	403) 230	1237		K		
NON	N-HAZARDOUS WASTE MANIFI	EST	NO 14	18237	1. PA	GEOF	2. TRAII	LER NO.	045		
	3. COMPANY NAME	45508	RESShamp	ion Dr.		5.	P19/22/2027				
G	E.O.G Resources	CITY	•	STATE		ZIP 6.	TNRCC I.D. NO	).			
E	-(432) 696-3705	Midla	nd	TY	70	706					
_	7. NAME OR DESCRIPTION OF WASTE SHIPPER	2010 2010	n rd	1.60	8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#		
N	a.				9	200					
	Non-Regulated, Non Hazardous Wast	9			_1_	- CM		Y-			
E	41510										
R	°wт 35940 3'	749	00	44.180							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	О.		
A	MADISON "1" FEE COM#1	0	159	080							
				ENCY OR SPILI	L <b>, CO</b> I	NTACT	24 110110	E) (ED CE)	107/110		
T	NAME	PHON					24-HOUR	EMERGE	NCY NO.		
	JOE ONTIVEROS  15.GENERATOR'S CERTIFICATION: 1		387-4048	the contents of this co	nsianmer	at are fully	and accurately	described al	hove by proper		
0	shipping name and are classified, packed, marked, and international and national government regulations, inc	l labeled,	and are in al	I respects in proper cor	ndition fo	or transport	by highway acc	ording to ap	plicable		
R	PRINTED/TYPED NAME			SIGNATURE					DATE		
	CO. MAN: JAMES KENNEDY										
T	16. TRANSPORTER (1)			17.	TF	RANSPO	ORTER (2)				
R A	NAME:			NAME:							
N	SDR ENTERPRISE TEXAS I.D. NO.	<u>S</u>		TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:							
O	EMERGENCY PHONE: (575)		RUSK	EMERGENCY PHO	ONE:						
R T	18. TRANSPORTER (1): Acknowledgment of	receipt	of material	19. TRANSPOR		( <b>2</b> ): Ackno	owledgment of a	eceipt of m	aterial		
E R	PRINTED/TYPED NAME ELOY AY	100	20	PRINTED/TYPED	NAME .						
S	SIGNATURE ELDY	DATE	11/22	2024 NATURE			I	ATE	_		
		ADDI	RESS:				PHONE:				
	Lea Land, LLC		Mile	Marker 64, U.S	S. Hw	y 62/18	80,	575-88	7-4048		
D F I A			30 N	Iiles East of Ca	rlsbad	l, NM					
S C P I	PERMIT NO.  WM-01-035 - New Mexico			20. COMMENTS							
O L S I	21. DISPOSAL FACILITY'S CERTIFICA facility is authorized and permitted to receive such wa		: I Hereby o	ertify that the above de	escribed	wastes wer	e delivered to the	nis facility, t	hat the		
A T L Y	<u> </u>	usics.				11		1			
	AUTHORIZED SIGNATURE	0.	1	CELL NO.		DAT	E <b>11/22/2021</b>	TIN	3.40		
	LIMILD X WITH	ill-	t						1,		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

**LEA LAND, LLC**1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73 106 • PHONE (405) 236-4257

				_		0		)		
NO	N-HAZARDOUS WASTE MANIFES	ST NO 1	48238	1. PAC	GEOF_	2. TRAII	LER NO.	043		
	3. COMPANY NAME	SOURE Chan	npion Dr.		5. P.	19/25/2027				
G	E.O.G Resources	TY	STATE	2	ZIP 6. T	NRCC I.D. NC	).			
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	<del>vidland</del>	TX.		ZOR TAINERS Type	9. TOTAL OUANTITY	I0. UNIT	11. TEXAS WASTE ID#		
N	a. Non-Regulated, Non-Hazardous Waste			1	CM	QUANTITI	W U VOI.	WASTE ID#		
E	c.									
R	фwт:4154D 452	39860								
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:  MADISON "1" FEE COM # 1	_	Ta 17/1	108	7	13. WASTE P	ROFILE N	0.		
		OFFMED	GENCY OR SPILI	CON	TACT					
Т	NAME F	PHONE NO		L, CON	ITACI	24-HOUR	EMERGE	NCY NO.		
0	JOE ONTIVEROS 575-887-4048  15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurately described above by prope shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC									
R	PRINTED/TYPED NAME		SIGNATURE					DATE		
	CO. MAN: JAMES KENNEDY									
T R	16. TRANSPORTER (1)		17. TRANSPORTER (2)							
A	NAME: SDR ENTERPRISES		NAME:							
N S	TEXAS I.D. NO.		TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT: SHANN	NON RUSK	IN CASE OF EMER	RGENCY	CONTAC	CONTACT:				
O R		41-7330	EMERGENCY PHO		2)	1.1				
T	18. TRANSPORTER (1): Acknowledgment of re			`	2): Ackno	wleagment of r	eceipt of m	атепат		
E R	SIGNATURE WAX CANTINE B	100	PRINTED/TYPED	NAME _				_		
S	SIGNATURE MAK CANTAGE B	ATE 11/2	22 2026 NATURE			D	ATE			
		ADDRESS:				PHONE:				
D F	Lea Land, LLC		ile Marker 64, U.S Miles East of Ca			0,	575-88	7-4048		
S C	PERMIT NO.	20. COMMENTS								
P I O L	WM-01-035 - New Mexico	)								
S I A T	21.DISPOSAL FACILITY'S CERTIFICAT facility is authorized and permitted to receive such waste		y certify that the above de	escribed v	vastes were	delivered to the	nis facility, t	hat the		
L Y	AUTHORIZED SIGNATURE	Oney	CELL NO.		DATE	11/22/2021	TH	50		
	HILL Y ALIH	NUT)						1.		

GENERATOR: COPIES I & 6

Released to Imaging: 9/13/2022 2:25:32 PM

DISPOSAL SITE: COPIES 2 & 3 COPY 1

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 83985

#### **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	83985
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
amaxwell	None	9/13/2022