Reference No. 11135250-7



February 21, 2018

Mr. Dean Ericson ETC Field Services LLC 600 N. Marienfeld Suite 700 Midland, TX 79701

Dear Mr. Ericson:

Re: Remediation Summary Report 2A-20" (1 RP-4735) ETC Field Services LLC Site Location: Unit J, Section 32, Township 23-South, Range 37-East (Lat 32.25972N°, Long -103.18139W°) Lea County, New Mexico

GHD Services, Inc. (GHD) is pleased to present this report for the above referenced site. The 2A-20" (hereafter referred to as the "Site") is located within Unit J, Section 32, Township 23 South, Range 37 East, in Lea County, New Mexico (see Figure 1). The property is owned by the New Mexico State Land Office (NMSLO).

A release of an unknown quantity of natural gas and oil was reported to the State of New Mexico Oil Conservation Division (NMOCD) on June 21, 2017 via Form C-141. Corrosion caused an approximate 2inch by 8-inch hole to develop on a section of the pipeline. Twelve barrels of the fluids were recovered with a vacuum truck. Contaminated soils were excavated and stockpiled on site (see Figure 2). NMOCD release number 1RP-4735 was assigned.

## 1. Recommended Remediation Action Limit

Based on information available from the New Mexico Office of the State Engineer New Mexico Water Rights Reporting System website, the closest well with a recorded depth to water is approximately 0.5 mile from the Site. The depth to groundwater measured in this well was 103 feet below ground surface (ft bgs).

Based on information available from the United States Geologic Survey (USGS) National Water Information System, the depth to groundwater at the Site is approximately 111 ft bgs. This is based on a water well that is located approximately 2 miles east, southeast of the Site (see Appendix A, Water Well Reports for depth to water). In addition to the USGS identified well, GHD performs groundwater monitoring at a site that is located approximately 0.8 mile to the east. Depth to water at that site is approximately 112 ft bgs.





There are no well head protection areas or surface water bodies within 1000 feet of the Site. Therefore, the preliminary total ranking score is 0.

Based on this score, the applicable NMOCD Site specific Recommended Remediation Action Limits (RRALs) are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total benzene, toluene, ethylbenzene, and xylenes (BTEX), 5,000 mg/kg for total petroleum hydrocarbons (TPH), and 600 mg/kg for chlorides.

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (>100 ft bgs)	0
Wellhead Protection Area (>1000 ft from water source, > 200 ft from domestic source)	0
Distance to Surface Body Water (>1000 ft)	0
Ranking Criteria Total Score	0*
*Because the ranking criteria total score is 0 NMOCD established RRALs are 10 m	a/ka for benzene

\*Because the ranking criteria total score is 0, NMOCD established RRALs are 10 mg/kg for benzene, 50 mg/kg for total BTEX, 5,000 mg/kg for total TPH and 600 ppm for chlorides<sup>1</sup>.

1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993 and recent discussions with Mr. Jim Griswold with the NMOCD.

### 2. Assessment Activities

The impacted area had initially been excavated to a depth of approximately 6 ft bgs and the soils stockpiled on site. Following the release, GHD's Site assessment activities began with initial background soil sampling and analysis and limited excavation on July 27, 2017. Initial assessment activities were performed by excavating test pits and field screening the soil using the PetroFLAG Hydrocarbon Analysis System and a Hach chloride field kit. Soil samples were collected from the base of the excavation (TP-5) and four test pits (TP-1 through TP-4). Excavation activities were performed by Diamondback Disposal Services, Inc. of Hobbs, New Mexico (Diamondback).

The soil samples were collected by GHD and analyzed by Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico The soil samples were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by EPA Method 8015 full range and chloride by EPA Method 300.0 (Table 1).

BTEX was not detected above the laboratory reporting limit (LRL) in any of the samples, total TPH concentrations ranged from below the LRL to 450 mg/kg, and chloride concentrations ranged from below the LRL to 72 mg/kg. The highest detected concentrations were found in the sample collected from TP-5. Laboratory analytical data can be found summarized in Table 1 and Figure 2 and the laboratory report can be found in Appendix B.



None of the samples analyzed contained concentrations exceeding the RRALs for the constituents that were analyzed.

An additional assessment was performed by GHD on October 10, 2017 that included hand auguring at five points (HA-1 through HA-5) closer to the release area. Samples were collected from a depth of 6 inches bgs and submitted to HEAL for BTEX, TPH, and chloride analyses. TPH concentrations in two of the sample locations, HA-2 and HA-3, exceeded the RRAL with concentrations of 11,680 and 20,540 mg/kg, respectively. All other detected concentrations were below the RRALs.

Additional excavation was performed by Diamondback in the areas of HA-2 and HA-3. GHD collected two additional soil samples from these areas on December 21, 2018 following the removal of the impacted soil. One sample, BB-1, was collected near HA-2 at a depth of 2.5 ft. bgs and BB-2 was collected near HA-3 at a depth of 3.5 ft. bgs. The samples were submitted to HEAL for TPH and chloride analyses. Both total TPH and chloride concentrations were below the RRALs for both samples.

### 3. Summary and Recommendations

Based on the assessment and excavation activities, it appears that the horizontal and vertical extent of hydrocarbon and chloride impacted soil has been assessed and the impacted soils removed. The soil sample collected from the base of the excavation at a depth of 6 ft bgs (see Figure 2) was submitted for laboratory analysis. The laboratory analytical results are below the RRALs for the constituents that were analyzed. The two areas containing TPH concentrations above the RRAL were excavated and resampled. All detected concentrations were below the RRALs.

Based on the laboratory results, GHD recommends backfilling the excavation with clean fill material and wheel compacting to grade. Following completion of the backfilling, revegetation of the Site will be performed. Disturbed areas associated with the remediation efforts will be re-seeded. If, after one growing season, the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be planted utilizing a drill. The proposed seed mix will consist of Bureau of Land Management mix #2 with no love grass.

The Site will be visited on a quarterly basis to assess the establishment of vegetative growth. Staff personnel performing the site visit will also look for the presence of noxious weeds at the Site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the Site, the New Mexico State Land Office will be contacted to determine the most effective manner to eradicate it.



Following completion of the above activities, a request for no further action will be made for the Site. Should you have any questions, or require additional information regarding this submittal, please feel free to contact myself or Bernie Bockisch at (505) 884-0672.

Sincerely,

GHD

AIC Brand

Alan Brandon Senior Project Manager

AB/pd/01

Small

Bernard Bockisch New Mexico Operations Manager

Attachments:

Figure 1 Figure 2 Table 1 – Soil Analytical Results Summary Appendix A – Water Well Reports

Appendix B - Certified Laboratory Report



GHD | 11135250-07



CAD File: I:\CAD\Files\Eight Digit Job Numbers\1113----\11135250-ETC Field Services\11135250-07(000)GN-DL001.dwg





# **Tables**

#### Table 1

#### ETC Field Services LLC - 2A-20" Section 32, Township 23 South, Range 37 East Lea County, New Mexico Soil Analytical Results Summary

Sample ID	Date	Sample Depth	Chlorides	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	ТРН	ТРН	ТРН	Total TPH
		(ft.)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C-10)	DRO (C10-C28)	MRO (C28-C36)	GRO/DRO/MRO
									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Remediatio	n Action Levels		600	10	NE	NE	NE	50	NE	NE	NE	5,000
					SOIL	SAMPLES						
S11135250-07-072717-MG-TP-1-2	7/27/2017	2	32	< 0.024	< 0.047	< 0.047	< 0.095	<0.213	<4.7	20	<49	20
S11135250-07-072717-MG-TP-2-2	7/27/2017	2	<30	< 0.023	<0.047	<0.047	< 0.093	<0.210	<4.7	<9.8	<49	<63.5
S11135250-07-072717-MG-TP-3-2	7/27/2017	2	<30	< 0.024	<0.048	<0.048	< 0.097	<0.217	<4.8	<9.5	<48	<62.3
S11135250-07-072717-MG-TP-4-2	7/27/2017	2	<30	< 0.024	<0.048	<0.048	< 0.095	<0.215	<4.8	11	<51	11
S11135250-07-072717-MG-TP-5-6	7/27/2017	6	72	< 0.024	<0.048	<0.048	< 0.097	<0.217	<4.8	160	290	450
S-11135250-07-101017-MG-HA-1	10/10/2017	0.5	92	< 0.024	< 0.049	< 0.049	< 0.097	<0.219	<4.9	15	<50	15
S-11135250-07-101017-MG-HA-2	10/10/2017	0.5	160	< 0.023	< 0.046	< 0.046	< 0.093	<0.208	80.0	8,400	3,200	11,680
S-11135250-07-101017-MG-HA-3	10/10/2017	0.5	320	< 0.050	0.11	0.9	4.8	5.81	140.0	13,000	7,400	20,540
S-11135250-07-101017-MG-HA-4	10/10/2017	0.5	120	< 0.024	<0.048	<0.048	< 0.097	<0.217	<4.8	790	590	1,380
S-11135250-07-101017-MG-HA-5	10/10/2017	0.5	<30	< 0.024	<0.048	<0.048	< 0.097	<0.217	<4.8	1,400	990	2,390
11135250-07-122117-BB-1	12/21/2017	2.5	<30	NA	NA	NA	NA	NA	<4.9	<10	<50	<64.9
11135250-07-122117-BB-2	12/21/2017	3.5	57.0	NA	NA	NA	NA	NA	<4.8	470	400	870

Note: Concentrations in yellow exceed the NMOCD Remediation Action Level

NE = Not Established mg/Kg = milligrams per Kilogram NA = Not Analyzed

# Appendix A Water Well Reports



USGS Home Contact USGS Search USGS

### National Water Information System: Web Interface



Save file of selected sites to local disk for future upload

# USGS 321345103111001 24S.37E.08.14232

Available data for this site Groundwater: Field measurements V GO

Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°13'45", Longitude 103°11'10" NAD27 Land-surface elevation 3,286 feet above NAVD88 The depth of the well is 185 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

## **Output formats**

<u>Table of data</u>
<u>Tab-separated data</u>
<u>Graph of data</u>
Reselect period

fee

above NAVD 1988

Level

Groundwater

3174.85

3174.80

3174,75

3174,70

Nov 03

1965



Breaks in the plot represent a gap of at least one year between field measurements.

Nov 02

1965

Period of approved data

Nov 02

1965

Nov 02

1965

Nov 02

1965

Download a presentation-quality graph

Nov 02

1965

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Depth to water level, feet below land

111.15

111,20

111,25

111.30

Nov 02

1965

Accessibility Plug-Ins FOIA **Policies and Notices** Privacy U.S. Department of the Interior | U.S. Geological Survey **Title: Groundwater for USA: Water Levels** URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?



Page Contact Information: USGS Water Data Support Team Page Last Modified: 2017-06-30 09:02:33 EDT 0.57 0.49 nadww01



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer	(R=POD replaced, O=orphar					_					4.95)				
serves a water right file.)	C≕the file closed)	is		(quarters are 1=NW 2=N (quarters are smallest to					b C	,					
	00300)	POD		1	arge	est)				(N	IAD83 UTM in	meters)	(	In feet)	
		Sub-		Q	Q	Q								14	later
POD Number	Code	basin C	ounty				Sec	Tws	Rng	х	Ŷ	Distance	DepthWellD	epthWater Co	
CP 00347 POD1		CP	LE	3	2	3	33	23S	37E	672276	3570517* 🌍		103		
CP 00350 POD1		CP	LE	3	2	2	32	23S	37E	671458	3571309* 🌑	780	7		
CP 01431 POD10		CP	LE	3	3	4	32	238	37E	671011	3570036 🍥	842	189	103	86
CP 01431 POD9		CP	LE	2	4	3	32	23S	37E	670866	3570255 🌑	861	189	111	78
CP 00354 POD1		CP	LE	3	1 :	2 :	32	23S	37E	671056	3571302* 🌑	965	125		
CP 00037 POD3		СР	LE		4 :	3 :	32	235	37E	670775	3570189* 🍥	970	179	106	73
CP 00037 POD5		CP	LE		4 3	3 3	32	23S	37E	670775	3570189* 🌑	970	153		
CP 00037 POD5	R	CP	LE		4 3	3 3	32	23S	37E	670775	3570189* 🍥	970	153		
											Aver	age Depth to	o Water:	106 fee	t
												Minimum	Depth:	103 fee	t
												Maximum	Depth:	111 fee	t
Record Count:8			•• •••••												
Basin/County Sea	rch:														
Basin: Capitan		County	: Lea												
UTMNAD83 Radiu	s Search (i	n meters):													
Easting (X): 671	1672.49		North	ing	(Y)	: 3	570	558,9	6		Radius: 1000				
*UTM location was derive	ed from PLS	S - see Help													
The data is furnished by th concerning the accuracy, c	e NMOSE/IS ompleteness	C and is acc reliability, u	epted b sability,	oy th or s	e rec uitat	cipie oility	ent v / for	vith the any pa	e expres	ssed under purpose of	standing that the the data.	OSE/ISC ma	ke no warrantie	s, expressed or i	mplied,
8/16/17 9:45 AM												WATER C	OLUMN/ AVE	RAGE DEPTH	то

8/16/17 9:45 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix B Certified Laboratory Report



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

August 05, 2017 Bernie Bockish GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

RE: 2A-20

OrderNo.: 1707E88

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/28/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order: 1707E88

Date Reported: 8/5/2017

CLIENT: Project:	GHD 2A-20				Lab O	rder: 1707E	288
Lab ID:	1707E88-001			Collection D	ate: 7/2	7/2017 10:40:00 A	M
Client Sample II	D: S1113525007-0727	'17MGTP1-2'		Mat	t <b>rix:</b> SO	IL	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 3	300.0: ANIONS					Ana	lyst: MRA
Chloride		32	30	mg/Kg	20	8/3/2017 2:38:18 P	M 33153
EPA METHOD 8	8015M/D: DIESEL RAN	GE ORGANICS	5			Ana	lyst: TOM
Diesel Range O	rganics (DRO)	20	9.8	mg/Kg	1	8/2/2017 2:07:40 P	M 33114
Motor Oil Range	e Organics (MRO)	ND	49	mg/Kg	1	8/2/2017 2:07:40 P	M 33114
Surr: DNOP		79.0	70-130	%Rec	1	8/2/2017 2:07:40 P	M 33114
EPA METHOD 8	8015D: GASOLINE RAN	IGE				Ana	lyst: <b>NSB</b>
Gasoline Range	Organics (GRO)	ND	4.7	mg/Kg	1	8/2/2017 4:58:02 P	M 33109
Surr: BFB		90.7	54-150	%Rec	1	8/2/2017 4:58:02 P	M 33109
EPA METHOD 8	8021B: VOLATILES					Ana	lyst: <b>NSB</b>
Methyl tert-butyl	ether (MTBE)	ND	0.095	mg/Kg	1	8/2/2017 4:58:02 P	M 33109
Benzene		ND	0.024	mg/Kg	1	8/2/2017 4:58:02 P	M 33109
Toluene		ND	0.047	mg/Kg	1	8/2/2017 4:58:02 P	M 33109
Ethylbenzene		ND	0.047	mg/Kg	1	8/2/2017 4:58:02 P	M 33109
Xylenes, Total		ND	0.095	mg/Kg	1	8/2/2017 4:58:02 P	M 33109
Surr: 4-Bromo	ofluorobenzene	111	66.6-132	%Rec	1	8/2/2017 4:58:02 P	M 33109

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 1 of 10 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

## Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1707E88

Date Reported: 8/5/2017

	GHD 2A-20				Lab O	order: 17071	E88
Lab ID:	1707E88-002			Collection D	ate: 7/2	27/2017 10:50:00	AM
Client Sample ID:	S1113525007-0727	'17MGTP2-2'		Ma	trix: SO	IL	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Ana	alyst: MRA
Chloride		ND	30	mg/Kg	20	8/3/2017 3:15:32 F	PM 33153
EPA METHOD 801	5M/D: DIESEL RANG	GE ORGANICS				Ana	alyst: <b>TOM</b>
Diesel Range Orga	nics (DRO)	ND	9.8	mg/Kg	1	8/2/2017 1:24:00 F	PM 33114
Motor Oil Range Or	ganics (MRO)	ND	49	mg/Kg	1	8/2/2017 1:24:00 F	PM 33114
Surr: DNOP		70.1	70-130	%Rec	1	8/2/2017 1:24:00 F	PM 33114
EPA METHOD 801	5D: GASOLINE RAN	IGE				Ana	alyst: <b>NSB</b>
Gasoline Range Or	ganics (GRO)	ND	4.7	mg/Kg	1	8/2/2017 5:22:07 F	PM 33109
Surr: BFB		89.0	54-150	%Rec	1	8/2/2017 5:22:07 F	PM 33109
EPA METHOD 802	1B: VOLATILES					Ana	alyst: <b>NSB</b>
Methyl tert-butyl eth	ner (MTBE)	ND	0.093	mg/Kg	1	8/2/2017 5:22:07 F	PM 33109
Benzene		ND	0.023	mg/Kg	1	8/2/2017 5:22:07 F	PM 33109
Toluene		ND	0.047	mg/Kg	1	8/2/2017 5:22:07 F	PM 33109
Ethylbenzene		ND	0.047	mg/Kg	1	8/2/2017 5:22:07 F	PM 33109
Xylenes, Total		ND	0.093	mg/Kg	1	8/2/2017 5:22:07 F	PM 33109

66.6-132

%Rec

1

8/2/2017 5:22:07 PM

33109

104

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Surr: 4-Bromofluorobenzene

- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 2 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1707E88

Date Reported: 8/5/2017

	GHD A-20				Lab O	order: 1707E	88
Lab ID:	1707E88-003			Collection D	ate: 7/2	7/2017 11:30:00 A	M
Client Sample ID:	S1113525007-0727	'17MGTP3-2'		Mat	t <b>rix:</b> SO	IL	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Ana	lyst: MRA
Chloride		ND	30	mg/Kg	20	8/3/2017 3:52:45 P	M 33153
EPA METHOD 801	5M/D: DIESEL RAN	GE ORGANICS	5			Ana	lyst: TOM
Diesel Range Orga	nics (DRO)	ND	9.5	mg/Kg	1	8/2/2017 1:45:20 P	M 33114
Motor Oil Range Or	ganics (MRO)	ND	48	mg/Kg	1	8/2/2017 1:45:20 P	M 33114
Surr: DNOP		97.4	70-130	%Rec	1	8/2/2017 1:45:20 P	M 33114
EPA METHOD 801	5D: GASOLINE RAN	IGE				Ana	lyst: <b>NSB</b>
Gasoline Range Or	ganics (GRO)	ND	4.8	mg/Kg	1	8/2/2017 5:46:14 P	M 33109
Surr: BFB		90.6	54-150	%Rec	1	8/2/2017 5:46:14 P	M 33109
EPA METHOD 802	1B: VOLATILES					Ana	lyst: <b>NSB</b>
Methyl tert-butyl eth	ner (MTBE)	ND	0.097	mg/Kg	1	8/2/2017 5:46:14 P	M 33109
Benzene		ND	0.024	mg/Kg	1	8/2/2017 5:46:14 P	M 33109
Toluene		ND	0.048	mg/Kg	1	8/2/2017 5:46:14 P	M 33109
Ethylbenzene		ND	0.048	mg/Kg	1	8/2/2017 5:46:14 P	M 33109
Xylenes, Total		ND	0.097	mg/Kg	1	8/2/2017 5:46:14 P	M 33109
Surr: 4-Bromoflue	orobenzene	109	66.6-132	%Rec	1	8/2/2017 5:46:14 P	M 33109

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank

- Value above quantitation range Е
- Analyte detected below quantitation limits Page 3 of 10 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

Lab Order: 1707E88

Date Reported: 8/5/2017

CLIENT: Project:	GHD 2A-20				Lab O	rder: 1707E	88
Lab ID:	1707E88-004			Collection D	ate: 7/2	7/2017 12:10:00 Pl	М
Client Sample II	D: S1113525007-0727	17MGTP5-6'		Mat	trix: SO	IL	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 3	300.0: ANIONS					Anal	yst: MRA
Chloride		72	30	mg/Kg	20	8/3/2017 4:05:10 PM	A 33153
EPA METHOD 8	3015M/D: DIESEL RANG	GE ORGANICS	5			Anal	yst: TOM
Diesel Range Or	rganics (DRO)	160	10	mg/Kg	1	8/2/2017 12:37:34 F	PM 33114
Motor Oil Range	Organics (MRO)	290	50	mg/Kg	1	8/2/2017 12:37:34 P	PM 33114
Surr: DNOP		96.6	70-130	%Rec	1	8/2/2017 12:37:34 F	PM 33114
EPA METHOD 8	3015D: GASOLINE RAN	IGE				Anal	yst: NSB
Gasoline Range	Organics (GRO)	ND	4.8	mg/Kg	1	8/2/2017 6:10:18 PM	A 33109
Surr: BFB		89.6	54-150	%Rec	1	8/2/2017 6:10:18 PM	A 33109
EPA METHOD 8	3021B: VOLATILES					Anal	yst: NSB
Methyl tert-butyl	ether (MTBE)	ND	0.097	mg/Kg	1	8/2/2017 6:10:18 PM	A 33109
Benzene		ND	0.024	mg/Kg	1	8/2/2017 6:10:18 PM	A 33109
Toluene		ND	0.048	mg/Kg	1	8/2/2017 6:10:18 PM	A 33109
Ethylbenzene		ND	0.048	mg/Kg	1	8/2/2017 6:10:18 PM	И 33109
Xylenes, Total		ND	0.097	mg/Kg	1	8/2/2017 6:10:18 PM	И 33109
Surr: 4-Bromo	ofluorobenzene	108	66.6-132	%Rec	1	8/2/2017 6:10:18 PM	И 33109

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1707E88

Date Reported: 8/5/2017

CLIENT: Project:	GHD 2A-20				Lab O	order: 1707E	88			
Lab ID:	1707E88-005			Collection D	ate: 7/2	7/2017 12:35:00 P	М			
Client Sample	ID: S1113525007-0727	'17MGTP4-2'	Matrix: SOIL							
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID			
EPA METHOD	300.0: ANIONS					Ana	lyst: MRA			
Chloride		ND	30	mg/Kg	20	8/3/2017 4:17:34 P	M 33153			
EPA METHOD	8015M/D: DIESEL RANG	GE ORGANICS	5			Ana	lyst: TOM			
Diesel Range C	Drganics (DRO)	11	10	mg/Kg	1	8/2/2017 1:23:16 P	M 33114			
Motor Oil Rang	e Organics (MRO)	ND	51	mg/Kg	1	8/2/2017 1:23:16 P	M 33114			
Surr: DNOP		97.2	70-130	%Rec	1	8/2/2017 1:23:16 P	M 33114			
EPA METHOD	8015D: GASOLINE RAN	IGE				Ana	lyst: <b>NSB</b>			
Gasoline Rang	e Organics (GRO)	ND	4.8	mg/Kg	1	8/2/2017 6:34:24 P	M 33109			
Surr: BFB	,	87.7	54-150	%Rec	1	8/2/2017 6:34:24 P	M 33109			
EPA METHOD	8021B: VOLATILES					Ana	lyst: <b>NSB</b>			
Methyl tert-buty	yl ether (MTBE)	ND	0.095	mg/Kg	1	8/2/2017 6:34:24 P	M 33109			
Benzene		ND	0.024	mg/Kg	1	8/2/2017 6:34:24 P	M 33109			
Toluene		ND	0.048	mg/Kg	1	8/2/2017 6:34:24 P	M 33109			
Ethylbenzene		ND	0.048	mg/Kg	1	8/2/2017 6:34:24 P	M 33109			
Xylenes, Total		ND	0.095	mg/Kg	1	8/2/2017 6:34:24 P	M 33109			
Surr: 4-Brom	nofluorobenzene	109	66.6-132	%Rec	1	8/2/2017 6:34:24 P	M 33109			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 5 of 10 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

## Hall Environmental Analysis Laboratory, Inc.

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

GHD

Project:	2A-20										
Sample ID MB-33	153	SampType: MBLK			Tes	tCode: El	PA Method	300.0: Anior	S		
Client ID: PBS		Batch	ID: 33	153	R	unNo: 4	4718				
Prep Date: 8/3/2	017	Analysis D	ate: <b>8/</b>	3/2017	S	eqNo: 1	414230	Units: <b>mg/k</b>	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID LCS-3	3153	SampT	ype: LC	S	Tes	tCode: El	PA Method	300.0: Anior	S		
Client ID: LCSS		Batch	ID: 33	153	R	unNo: 4	4718				
Prep Date: 8/3/2	017	Analysis D	ate: <b>8/</b>	3/2017	S	eqNo: 1	414231	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.7	90	110			

#### **Qualifiers:**

**Client:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 6 of 10

GHD

#### **Project:** 2A-20 Sample ID LCS-33114 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 33114 RunNo: 44660 Prep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1411984 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 43 50.00 0 86.8 73.2 114 Surr: DNOP 5.000 73.3 3.7 70 130 Sample ID MB-33114 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 33114 RunNo: 44660 Prep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1411985 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.3 10.00 82.7 70 130

### **Qualifiers:**

**Client:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 7 of 10

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client:	GHD										
Project:	2A-20										
Sample ID	MB-33109	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch	ID: 33	109	F	RunNo: 4	4673				
Prep Date:	8/1/2017	Analysis D	ate: <b>8/</b>	2/2017	S	SeqNo: 1	413152	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Ranç Surr: BFB	je Organics (GRO)	ND 920	5.0	1000		91.8	54	150			
Sample ID	LCS-33109	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: 33	109	F	RunNo: 4	4673				
Prep Date:	8/1/2017	Analysis D	ate: <b>8/</b>	2/2017	S	SeqNo: 1	413153	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	je Organics (GRO)	23	5.0	25.00	0	91.7	76.4	125			
Surr: BFB		1000		1000		105	54	150			
Sample ID	1707E88-002AMS	SampT	ype: <b>MS</b>	6	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	S1113525007-072	271 Batch	ID: 33	109	F	RunNo: 4	4673				
Prep Date:	8/1/2017	Analysis D	ate: <b>8/</b>	2/2017	S	SeqNo: 1	413156	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	27	4.9	24.41	0	110	77.8	128			
Surr: BFB		1000		976.6		106	54	150			
Sample ID	1707E88-002AMS	SD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range									
Client ID:	S1113525007-072	271 Batch	ID: 33	109	F	RunNo: 4	4673				
Prep Date:	8/1/2017	Analysis D	ate: <b>8/</b>	2/2017	S	SeqNo: 1	413157	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	26	4.7	23.43	0	109	77.8	128	5.21	20	
Surr: BFB		1000		937.2		109	54	150	0	0	

#### **Qualifiers:**

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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
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- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 8 of 10

Internet         GHD           ineqlet ID         2A-20           ample ID         MB-33109         SampType: MBLK         TestCode: EPA Method 80218: Volatiles           isent ID:         PBS         Batch ID: 33109         RunNo: 44673           rep Date:         8/1/2017         Analysis Date:         8/2/2017           nalyte         Result         POL         SPK value         SPK ref Val         %REC         LowLinit         HighLinit         %RPD         RPDLinit         Qual           malyte         Result         POL         SPK value         SPK ref Val         %REC         LowLinit         HighLinit         %RPD         RPDLinit         Qual           withere         ND         0.050          Server 44673         Server 44673         Server 44673         Server 44673           sample ID         LCSS         Batch ID:         33109         RunNo:         14473         Server 4673         Server 4673 <t< th=""><th>Hall Fr</th><th>wiranment</th><th>al Anal</th><th>vcic T</th><th>ahorat</th><th>ory Inc</th><th></th><th></th><th></th><th></th><th></th><th>07.4</th></t<>	Hall Fr	wiranment	al Anal	vcic T	ahorat	ory Inc						07.4
roject:       2.A-20         ample ID< MB-33109       SampType:       MBLK       TestCode:       EPA Method 8021B: Volatiles         lient ID:       PBS       Batch ID:       33109       RunNo:       44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       14/13168       Units:       mg/Kg         nalyte       Result       PQL       SPK value       SPK value       SPK Value       SeqNo:       LowLinit       HighLinit       %RPD       RPDLinit       Qual         mplete       ND       0.050         SeqNo:       1413       66.6       132               SeqNo:       ND       0.00				y 515 1	20001 01	ory, me.						07-Aug-1
MB-33109         SampType:         MBLK         TestCode:         EPA Method 8021B: Volatiles           iient ID:         PBS         Batch ID:         33109         RunNo:         44673           rep Date:         8/1/2017         Analysis Date:         8/2/2017         SeqNo:         1413168         Units:         mg/Kg           nalyte         Result         POL         SPK value         SPK value         Could intermination of the second of the s	Client:	GHD										
MB-33109         SampType:         MBLK         TestCode:         EPA Method 8021B: Volatiles           iient ID:         PBS         Batch ID:         33109         RunNo:         44673           rep Date:         8/1/2017         Analysis Date:         8/2/2017         SeqNo:         1413168         Units:         mg/Kg           nalyte         Result         POL         SPK value         SPK value         Could intermination of the second of the s	Project:	2A-20										
Hart ID:         PBS         Batch ID:         33109         RunNo:         44673           rep Date:         8/1/2017         Analysis Date:         8/2/2017         SeqNo:         1413168         Units:         mg/Kg           nalyte         Result         POL         SPK value         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           thight study leter (MTEE)         ND         0.050         Server Manual	- • J • • •											
Perp Date:         8/1/2017         Analysis Date:         8/2/2017         Seq.No:         1413168         Units:         mg/s           nalyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         High-Limit         %RPD         RPDLimit         Qual           mg/serbulg dher (MTBE)         ND         0.00	Sample ID	MB-33109	Samp⊺	Type: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Pol         Pol         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           thyl terbulyl ether (MTBE)         ND         0.025         -<	Client ID:	PBS	Batc	h ID: 33	109	F	RunNo: 4	4673				
thylterbudyl ether (MTBE)         ND         0.10           nzene         ND         0.025           wlene         ND         0.050           sylbenzene         ND         0.010           str. 4Brondblurobenzene         1.1         1.000         113         66.6         132           ample ID         LCS-33109         SampType: LCS         TestCode:         EPA Method 8021B: Volatiles           liant ID:         LCSS         Batch ID:         33109         RunNo:         44673           rep Date:         81/2017         Analysis Date:         8/2/2017         SeqNo:         1413169         Units: mg/Kg           nalyte         Result         POL         SPK Kelf Val         %REC         LowLinit         HighLimit         %RPD         RPDLimit         Qual           thyl terbudyl ether (MTBE)         0.97         0.10         1.000         0         103         80         120           ythenzene         1.0         0.055         1.000         0         103         80         120           ythenzene         1.1         1.000         112         66.6         132         ample D         1707E88-001AMS         SampType: MS         TestCode:         EPA Method 8021B: Volatile	Prep Date:	8/1/2017	Analysis [	Date: 8/	2/2017	5	SeqNo: 1	413168	Units: <b>mg/K</b>	g		
ND         0.025           Ware         ND         0.050           Ware         ND         0.050           Star: 4-Brondburdbenzee         1.1         Tes/Code         EVA Method 2021B: Volutiles           Star: 4-Brondburdbenzee         1.1         Tes/Code         EVA Method 2021B: Volutiles         Volutile           ample ID         LCS-33109         SampType:         LCS         Fear Method 2021B: Volutiles         Volutile           Identify Ide LOS-33109         SampType:         LCS         Fear Method 2021B: Volutiles         Volutile           Identify Ide LOS-33109         SampType:         LCS         Batch ID:         SAMPType:         Result         POL         SPK value         SPK Ref Val         %REC         Low/Imit         HighLimit         %RPD         RPDLimit         Qual           https://doi.000         0         97.4         66.5         120	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
base         ND         0.050           yber.eres. Total         ND         0.050           sure: 4.Bromediuarobenzene         1.1         1.000         113         66.6         132           ample ID         LCS-33109         SampType: LCS         TestCode:         EPA Method 8021B: Volatiles           rep Date:         8/1/2017         Analysis         Date:         8/2/2017         SeqNo:         1413169         Units: mg/Kg           rangle ID         LCS-33109         SampType: LCS         Result         8/2/2017         SeqNo:         1413169         Units: mg/Kg           rep Date:         8/1/2017         Analysis         Date:         8/2/2017         SeqNo:         1413169         Units: mg/Kg           nazene         1.0         0.025         1.000         0         97.4         66.5         120           vibenzene         1.0         0.025         1.000         0         101         80         120           vibenzene         1.1         1.000         0         112         66.5         132           str.et-Bromofluorobenzene         1.1         1.000         112         66.6         132           str.et-Bromofluorobenzene         1.1         0.097	lethyl tert-but	yl ether (MTBE)	ND	0.10								
ND       0.050         eners, Total       ND       0.10         Star: 4-Broandblarobenzene       1.1       1.00       113       66.6       132         ample ID       LCS-33109       SampType:       LCS       TestCode:       EPA Method 8021B:       Volumit       HighLimit       %RPD       RPDLimit       Qual         ample ID       LCS       Batch ID:       3310       SampType:       LCS       EeqNo:       1413169       Units:       mg/Kg         natyre       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thight returned (MTBE)       0.97       0.10       1.000       0       97.4       66.5       120       100       100       100       100       80       120       100       100       100       100       100       100       80       120       100       100       100       100       80       120       100       100       100       80       120       100       100       100       80       120       100       100       100       100       100       80       120       100       100       100	enzene		ND	0.025								
Prines, Total         ND         0.10           Suir. 4-Bronnolluorobenzene         1.1         1.00         113         66.6         132           ample ID         LCS-33109         SampType: LCS         TestCode: EPA Method 8021B: Volatiles           tilent ID:         LCSS         Batch ID: 33109         RunNi: 44673           rep Date:         8/1/2017         Analysis Date: 8/2/2017         SeqNo: 1413169         Units: mg/Kg           nalyte         Result         POL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           http://tert.bulg/ether(MTBE)         0.07         0.10         1.000         0         103         80         120           unene         1.0         0.050         1.000         0         103         80         120           strir.4-Bronneluorobenzene         1.1         1.000         0         103         80         120           strir.4-Bronneluorobenzene         1.1         1.000         0         112         66.6         132           ample ID         1707E88-001AMS         SampType: MS         TestCode: EPA Method 8021B: Volatiles         Value           strir 4-Bronneluorobenzene         1.1         0.	oluene		ND	0.050								
Surr. 4-Bronnellucrobenzene         1.1         1.00         113         66.6         132           ample ID         LCS-33109         SampType:         LCS         TestCode:         EPA Method SU218:         Volatiles           rep Date:         8/1/2017         Analysis Date:         8/2/2017         SeqNo:         1413169         Units:         mg/Kg           nalyte         Result         POL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           thyl terbuly ether (MTBE)         0.97         0.10         1.000         0         97.4         66.5         120           0.010         101         800         120             0.010         100	thylbenzene		ND	0.050								
Suri: 4 Bronnellucrobenzene         1.1         1.00         113         66.6         132           ample ID         LCS-33109         Samp Type:         LCS         TestCode:         EPA Method         8021B:         Volatiles           rep Date:         8/1/2017         Analysis Date:         8/2/2017         SeqNo:         1413169         Units:         mg/Kg           nalyte         Result         POL         SPK Ref Val         %REC         cwLimit         High-Limit         %RPD         RPDLimit         Qual           thyl terbuly tehr (MTBE)         0.97         0.10         1.000         0         97.4         66.5         120              1.0         0.05         1.000         0         101         80         120                  1.0         0.00         101         80         120              1.0         0.00         101         80         120               1.0         1.0         1.0         0.00         1.0         1.0         1.0	ylenes, Total		ND	0.10								
Hiert ID:       LCSS       Batch ID:       33109       RunNo:       44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413169       Units:       mg/kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLinit       Qual         nalyte       0.97       0.10       1.000       0       97.4       66.5       120       100       101       80       120       100       100       101       80       120       100       100       101       80       120       100       100       101       80       120       100       100       101       80       120       100       101       80       120       100       101       80       120       100       101       80       120       100       101       800       120       100       100       101       800       120       100       100       101       100       101       100       101       100       101       100       101       100       101       100       101       100       101       100       101       100 <t< td=""><td>-</td><td>nofluorobenzene</td><td>1.1</td><td></td><td>1.000</td><td></td><td>113</td><td>66.6</td><td>132</td><td></td><td></td><td></td></t<>	-	nofluorobenzene	1.1		1.000		113	66.6	132			
Terp Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413169       Units:       mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thty tert-buyt ether (MTBE)       0.977       0.10       1.000       0       97.4       66.5       120         nzene       1.0       0.025       1.000       0       101       80       120         ybenzene       1.0       0.050       1.000       0       102       80       120         ybenzene       1.1       1.000       112       66.6       132	Sample ID	LCS-33109	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
nalyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           thty lett-buly ether (MTBE)         0.97         0.10         1.000         0         97.4         66.5         120           nzene         1.0         0.025         1.000         0         101         80         120           uene         1.0         0.050         1.000         0         101         80         120           ubenes, Total         3.1         0.10         3.000         0         103         80         120           start - 8.5rondluorobenzene         1.1         1.000         112         66.6         132	Client ID:	LCSS	Batc	h ID: 33	109	F	RunNo: 4	4673				
thylitert-bulyl ether (MTBE) 0.97 0.10 1.000 0 97.4 66.5 120 nzene 1.0 0.025 1.000 0 103 80 120 lutene 1.0 0.050 1.000 0 101 80 120 yblenzene 1.0 0.050 1.000 0 102 80 120 surr: 4-Bromofluorobenzene 1.1 1.000 112 66.6 132 ample ID 1707E88-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles tilent ID: S1113525007-07271 Batch ID: 33109 RunNo: 44673 rep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413171 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual thyl tert-bulyl ether (MTBE) 1.0 0.097 0.9737 0 104 72.5 138 nzene 1.1 0.024 0.9737 0 110 80.9 132 tuene 1.1 0.049 0.9737 0 110 80.9 132 tuene 1.1 0.049 0.9737 1 110 66.6 132 ample ID 1707E88-001AMS SampType: MSD TestCode: EPA Method 8021B: Volatiles filent ID: S1113525007-07271 Batch ID: 33109 RunNo: 44673 rep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413171 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual thyl tert-bulyl ether (MTBE) 1.0 0.097 0.9737 0 110 80.9 132 tuene 1.1 0.049 0.9737 1 10 66.6 132 ample ID 1707E88-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles tilent ID: S1113525007-07271 Batch ID: 33109 RunNo: 44673 rep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413172 Units: mg/Kg rep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413172 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual thyl tert-bulyl ether (MTBE) 0.99 0.093 0.9346 0 106 72.5 138 2.43 20 nzene 1.0 0.047 0.9346 0.0106 72.5 138 2.43 20 nzene 1.0 0.047 0.9346 0 110 80.9 132 3.52 20 tuene 1.0 0.047 0.9346 0 110 80.9 132 3.52 20 tuene 1.0 0.047 0.9346 0 110 80.9 132 3.52 20 tuene 1.0 0.047 0.9346 0 110 80.9 132 3.52 20 tuene 1.0 0.047 0.9346 0 112 79.4 140 2.94 20	Prep Date:	8/1/2017	Analysis [	Date: 8/	2/2017	S	SeqNo: 1	413169	Units: <b>mg/K</b>	g		
nzene       1.0       0.025       1.000       0       103       80       120         luene       1.0       0.050       1.000       0       101       80       120         hylbenzene       1.0       0.050       1.000       0       102       80       120         sumple ID       10707E88-001AMS       SampType:       MS       TestCode:       EPA Method 8021B:       Volatiles         sumple ID       1707E88-001AMS       SampType:       MS       TestCode:       EPA Method 8021B:       Volatiles         sumple ID       1707E88-001AMS       SampType:       MS       TestCode:       EPA Method 8021B:       Volatiles         sumple ID       1707E88-001AMS       SampType:       MS       TestCode:       EPA Method 8021B:       Volatiles         sumple ID       1707E88-001AMS       SampType:       Back ID:       33109       RunNo:       44673         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         hylbenzene       1.1       0.049       0.9737       0       110       80.9       132         uenes       1.1       0.049	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
tuene       1.0       0.050       1.000       0       101       80       120         hybenzene       1.0       0.050       1.000       0       102       80       120         enes, Total       3.1       0.10       3.000       0       103       80       120         surr, 4.Bromofluorobenzene       1.1       1.000       112       66.6       132	lethyl tert-but	yl ether (MTBE)	0.97	0.10	1.000	0	97.4	66.5	120			
hybenzene       1.0       0.050       1.000       0       102       80       120         lenes, Total       3.1       0.10       3.000       0       103       80       120         sur: 4.Bromofluorobenzene       1.1       1.000       112       66.6       132         ample ID       1707E88-001AMS       SampType: MS       TestCode: EPA Method 8021B: Volatiles         rep Date:       8/1/2017       Batch ID: 33109       RunNo: 44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo: 1413171       Units: mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thylter/bulyl ether (MTBE)       1.0       0.097       0.9737       0       104       72.5       138         nzene       1.1       0.049       0.9737       0       110       80.9       132         ulene       1.1       0.049       0.9737       0       111       79.4       140         str: 4.Bromofluorobenzene       1.1       0.9737       0       111       79.4       140         str: 4.Bromofluorobenzene       1.	enzene		1.0	0.025	1.000	0	103	80	120			
Ample ID       3.1       0.10       3.000       0       103       80       120         Surr: 4-Bromofluorobenzene       1.1       1.000       112       66.6       132         ample ID       1707E88-001AMS       SampType:       MS       TestCode:       EVA Method 8021B:       Volatiles         lient ID:       S1113525007-07271       Batch ID:       3310       result       Result       8/2/2017       SeqNo:       1413171       Units:       mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyle ter/bulyl ether (MTBE)       1.0       0.097       0.9737       0       110       80.9       132       132         uene       1.1       0.049       0.9737       0       110       80.9       132       136       141317       140       140       141       140       141       140       141       140       141       140       141       140       141       140       141       140       141       140       141       141       141       141       141       141       141       141       141       141 <td>oluene</td> <td></td> <td>1.0</td> <td>0.050</td> <td>1.000</td> <td>0</td> <td>101</td> <td>80</td> <td>120</td> <td></td> <td></td> <td></td>	oluene		1.0	0.050	1.000	0	101	80	120			
Ample ID       3.1       0.10       3.000       0       103       80       120         Surr: 4-Bromofluorobenzene       1.1       1.000       112       66.6       132         ample ID       1707E88-001AMS       SampType:       MS       TestCode:       EVA Method 8021B:       Volatiles         lient ID:       S1113525007-07271       Batch ID:       3310       result       Result       8/2/2017       SeqNo:       1413171       Units:       mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyle ter/bulyl ether (MTBE)       1.0       0.097       0.9737       0       110       80.9       132       132         uene       1.1       0.049       0.9737       0       110       80.9       132       136       141317       140       140       141       140       141       140       141       140       141       140       141       140       141       140       141       140       141       140       141       141       141       141       141       141       141       141       141       141 <td>thylbenzene</td> <td></td> <td>1.0</td> <td>0.050</td> <td>1.000</td> <td>0</td> <td>102</td> <td>80</td> <td>120</td> <td></td> <td></td> <td></td>	thylbenzene		1.0	0.050	1.000	0	102	80	120			
Sur: 4-Bromofluorobenzene       1.1       1.000       112       66.6       132         ample ID       1707E88-001AMS       SampType: MS       TestCode: EPA Method 8021B: Volatiles         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo: 1413171       Units: mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyl tert-butyl ether (MTBE)       1.0       0.097       0.9737       0       110       80.9       132         uene       1.1       0.049       0.9737       0       111       79.4       140         genes, Total       3.3       0.97       2.921       0.01514       111       79.4       140         sur: 4-Bromofluorobenzene       1.1       0.049       0.9737       0       111       79.4       140         sure 4-Bromofluorobenzene       1.1       0.049       0.9737       0       111       79.4       140         sure 4-Bromofluorobenzene       1.1       0.9737       0       111       79.4       140         sure 4-Bromofluorobenzene       1.1       0.9737       110       66.6       1	-											
Itient ID:       S1113525007-07271       Batch ID:       33109       RunNo:       44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413171       Units:       mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyl terl-butyl ether (MTBE)       1.0       0.097       0.9737       0       110       80.9       132         uene       1.1       0.049       0.9737       0       111       79.8       136         nybenzene       1.1       0.049       0.9737       0       111       79.4       140         lenes, Total       3.3       0.097       2.921       0.01514       111       78.5       142         sur: 4-Bromofluorobenzene       1.1       0.9737       TestCode:       EPA Method       8021B:       Volatiles         ample ID       1707E88-001AMSD       SampType:       MSD       RunNo:       44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413172       Units:       mg/Kg         ranglyte       Result       PQL	-	nofluorobenzene		0.10		U U						
Hiert ID:       S1113525007-07271       Batch ID:       S3109       RunNo:       44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413171       Units:       mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         shyleter/bulyl ether (MTBE)       1.0       0.097       0.9737       0       110       80.9       132         inzene       1.1       0.049       0.9737       0       111       79.8       136	Sample ID	1707E88-001AMS	Samp <sup>-</sup>	Туре: М	6	Tes	tCode: E	PA Method	8021B: Volat	iles		
nalyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           sthyl tert-bulyl ether (MTBE)         1.0         0.097         0.9737         0         104         72.5         138	Client ID:	S1113525007-072				F	RunNo: 4	4673				
http://tert-butyl ether (MTBE)       1.0       0.097       0.9737       0       104       72.5       138         nzene       1.1       0.024       0.9737       0       110       80.9       132         luene       1.1       0.049       0.9737       0       111       79.8       136         nylbenzene       1.1       0.049       0.9737       0       111       79.4       140         lenes, Total       3.3       0.097       2.921       0.01514       111       78.5       142         Surr: 4-Bromofluorobenzene       1.1       0.9737       110       66.6       132         ample ID <b>1707E88-001AMSD</b> SampType: MSD       TestCode: EPA Method 8021B: Volatiles         lient ID: <b>S1113525007-07271</b> Batch ID: <b>33109</b> RunNo: 44673         rep Date: <b>8/1/2017</b> Analysis Date: <b>8/2/2017</b> SeqNo: 1413172       Units: mg/Kg         nalyte       Result       PQL       SPK kalue       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyl tert-butyl ether (MTBE)       0.99       0.93       0.9346       0       106       72.5       138       2.43	Prep Date:	8/1/2017	Analysis [	Date: 8/	2/2017	S	SeqNo: 1	413171	Units: <b>mg/K</b>	ģ		
nzene       1.1       0.024       0.9737       0       110       80.9       132         luene       1.1       0.049       0.9737       0.01069       108       79.8       136         hylbenzene       1.1       0.049       0.9737       0       111       79.4       140         lenes, Total       3.3       0.097       2.921       0.01514       111       78.5       142         Sur: 4-Bromofluorobenzene       1.1       0.9737       110       66.6       132       112         ample ID       1707E88-001AMSD       SampType: MSD       TestCode: EPA Method 8021B: Volatiles       Volatiles         lient ID:       \$1113525007-07271       Batch ID: 33109       RunNo: 44673       Vinits: mg/Kg         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo: 1413172       Units: mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyl tert-butyl ether (MTBE)       0.99       0.093       0.9346       0       110       80.9       132       3.52       20         nzene       1.0       0.047       0.9346	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iuene       1.1       0.049       0.9737       0.01069       108       79.8       136         nylbenzene       1.1       0.049       0.9737       0       111       79.4       140         nylbenzene       3.3       0.097       2.921       0.01514       111       78.5       142         Sur: 4-Bromofluorobenzene       1.1       0.9737       0       110       66.6       132         ample ID       1707E88-001AMSD       SampType: MSD       TestCode: EPA Method 8021B: Volatiles       Volatiles         silient ID:       \$1113525007-07271       Batch ID: 33109       RunNo: 44673       Volatiles       Volatiles         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo: 1413172       Units: mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         nthyl tert-butyl ether (MTBE)       0.99       0.093       0.9346       0       110       80.9       132       3.52       20         nzene       1.0       0.047       0.9346       0       110       80.9       136       3.59       20       20 <t< td=""><td>lethyl tert-but</td><td>yl ether (MTBE)</td><td>1.0</td><td>0.097</td><td>0.9737</td><td>0</td><td>104</td><td>72.5</td><td>138</td><td></td><td></td><td></td></t<>	lethyl tert-but	yl ether (MTBE)	1.0	0.097	0.9737	0	104	72.5	138			
hybenzene       1.1       0.049       0.9737       0       111       79.4       140         lenes, Total       3.3       0.097       2.921       0.01514       111       78.5       142         sur: 4-Bromofluorobenzene       1.1       0.9737       0       111       78.5       142         sur: 4-Bromofluorobenzene       1.1       0.9737       110       66.6       132         ample ID       1707E88-001AMSD       SampType: MSD       TestCode:       EPA Method 8021B: Volatiles         ample ID       1707E88-001AMSD       SampType: MSD       Result       8/2/2017       SeqNo:       1413172       Units: mg/Kg         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413172       Units: mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyl tert-butyl ether (MTBE)       0.99       0.093       0.9346       0       110       80.9       132       3.52       20         ulene       1.0       0.047       0.9346       0       110       80.9       136       3.59       20         h	enzene		1.1	0.024	0.9737	0	110	80.9	132			
Ineres, Total       3.3       0.097       2.921       0.01514       111       78.5       142         Surr: 4-Bromofluorobenzene       1.1       0.9737       110       66.6       132         ample ID       1707E88-001AMSD       SampType: MSD       TestCode: EPA Method 8021B: Volatiles         lient ID:       S1113525007-07271       Batch ID:       33109       RunNo:       44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413172       Units: mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyl tert-butyl ether (MTBE)       0.99       0.093       0.9346       0       110       80.9       132       3.52       20         nzene       1.0       0.047       0.9346       0       110       80.9       132       3.59       20         nybenzene       1.0       0.047       0.9346       0       112       79.4       140       2.94       20	oluene		1.1	0.049	0.9737	0.01069	108	79.8	136			
Ineres, Total       3.3       0.097       2.921       0.01514       111       78.5       142         Surr: 4-Bromofluorobenzene       1.1       0.9737       110       66.6       132         ample ID       1707E88-001AMSD       SampType: MSD       TestCode: EPA Method 8021B: Volatiles         lient ID:       S1113525007-07271       Batch ID:       33109       RunNo:       44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413172       Units: mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyl tert-butyl ether (MTBE)       0.99       0.093       0.9346       0       110       80.9       132       3.52       20         nzene       1.0       0.047       0.9346       0       110       80.9       132       3.59       20         nybenzene       1.0       0.047       0.9346       0       112       79.4       140       2.94       20	thylbenzene		1.1	0.049	0.9737	0	111	79.4	140			
Surr: 4-Bromofluorobenzene       1.1       0.9737       110       66.6       132         ample ID       1707E88-001AMSD       SampType:       MSD       TestCode:       EPA Method 8021B:       Volatiles         llient ID:       \$1113525007-07271       Batch ID:       33109       RunNo:       44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413172       Units:       mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       % RPD       RPDLimit       Qual         ntyle ether (MTBE)       0.99       0.093       0.9346       0       110       80.9       132       3.52       20         nzene       1.0       0.047       0.9346       0.01069       109       79.8       136       3.59       20         nylbenzene       1.0       0.047       0.9346       0       112       79.4       140       2.94       20	-											
Idient ID:       S1113525007-07271       Batch ID:       33109       RunNo:       44673         rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413172       Units:       mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyl tert-butyl ether (MTBE)       0.99       0.093       0.9346       0       106       72.5       138       2.43       20         nzene       1.0       0.023       0.9346       0       110       80.9       132       3.52       20         nuene       1.0       0.047       0.9346       0.01069       109       79.8       136       3.59       20         nylbenzene       1.0       0.047       0.9346       0       112       79.4       140       2.94       20	-	nofluorobenzene										
Rep Date:       8/1/2017       Analysis Date:       8/2/2017       SeqNo:       1413172       Units:       mg/Kg         nalyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         thyl tert-butyl ether (MTBE)       0.99       0.093       0.9346       0       106       72.5       138       2.43       20         nzene       1.0       0.023       0.9346       0       110       80.9       132       3.52       20         luene       1.0       0.047       0.9346       0.01069       109       79.8       136       3.59       20         nylbenzene       1.0       0.047       0.9346       0       112       79.4       140       2.94       20	Sample ID	1707E88-001AMS	SD Samp	Туре: М	SD	Tes	tCode: E	PA Method	8021B: Volat	iles		
nalyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           ethyl tert-butyl ether (MTBE)         0.99         0.093         0.9346         0         106         72.5         138         2.43         20           nzene         1.0         0.023         0.9346         0         110         80.9         132         3.52         20           luene         1.0         0.047         0.9346         0.01069         109         79.8         136         3.59         20           nylbenzene         1.0         0.047         0.9346         0         112         79.4         140         2.94         20	Client ID:	S1113525007-072	271 Batc	h ID: 33	109	F	RunNo: 4	4673				
Interview         0.99         0.093         0.9346         0         106         72.5         138         2.43         20           Inzene         1.0         0.023         0.9346         0         110         80.9         132         3.52         20           Iuene         1.0         0.047         0.9346         0.01069         109         79.8         136         3.59         20           hylbenzene         1.0         0.047         0.9346         0         112         79.4         140         2.94         20	Prep Date:	8/1/2017	Analysis [	Date: 8/	2/2017	S	SeqNo: 1	413172	Units: <b>mg/K</b>	ģ		
nzene1.00.0230.9346011080.91323.5220luene1.00.0470.93460.0106910979.81363.5920nylbenzene1.00.0470.9346011279.41402.9420	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iuene1.00.0470.93460.0106910979.81363.5920nylbenzene1.00.0470.9346011279.41402.9420	lethyl tert-but	yl ether (MTBE)	0.99	0.093	0.9346	0	106	72.5	138	2.43	20	
nylbenzene 1.0 0.047 0.9346 0 112 79.4 140 2.94 20	enzene		1.0	0.023	0.9346	0	110	80.9	132	3.52	20	
nylbenzene 1.0 0.047 0.9346 0 112 79.4 140 2.94 20	oluene		1.0	0.047	0.9346	0.01069	109		136	3.59	20	
	thylbenzene											
	Jualifiers											

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

**QC SUMMARY REPORT** 

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1707E88

#### **Client:** GHD Project: 2A-20

roject:	2A-2

Sample ID 1707E88-001AMS	SD SampT	ype: <b>MS</b>	SD.	Test	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: \$1113525007-07	271 Batch	n ID: 33	109	R	unNo: 4	4673				
Prep Date: 8/1/2017	Analysis D	ate: 8/	2/2017	S	eqNo: 1	413172	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	3.2	0.093	2.804	0.01514	114	78.5	142	1.63	20	
Surr: 4-Bromofluorobenzene	1.0		0.9346		112	66.6	132	0	0	

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 10 of 10

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.hau	4901 Hawkin Iquerque, NM 8 FAX: 505-345-	s NE 7109 <b>Sam</b> 4107	ple Log-In C	heck List
Client Name: GHD	Work Order Number:	1707E88		RcptNo:	1
Received By: Isaiah Ortiz	7/28/2017 10:00:00 AN	1	ICA		
Completed By: Erin Melendrez	7/30/2017 2:48:48 PM		Mart		
Reviewed By:	7/31/17				
Chain of Custody					
1. Custody seals intact on sample bottles?		Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?		<u>Client</u>			
<u>Log In</u>			_	_	
4. Was an attempt made to cool the sample:	s?	Yes 🗹	No 🗌	NA	
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗍	
6. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
7. Sufficient sample volume for indicated test	t(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bottles?		Yes	No 🗹	NA 🗌	
10.VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any sample containers received bro	ken?	Yes 🗌	No 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH:	r >12 unless noted)
13. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🗹	No 🗌	_	
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
<u>Special Handling (if applicable)</u> 16. Was client notified of all discrepancies with	h this order?	Yes 🗋	No 🗔	NA 🔽	
Person Notified: By Whom:	Date   	eMail	Phone 🗌 Fax	In Person	
Regarding:	Vid.				
Client Instructions:	<u>ne verse verse verse verse son son and son and</u>			enterent of the state of the st	
17. Additional remarks:					
18. <u>Cooler Information</u>					
Cooler No         Temp °C         Condition         1           1         5.0         Good         N	Seal Intact   Seal No   S ot Present	Seal Date	Signed By		

C	hain	-of-Cı	ustody Record	Turn-Around	Time:		] _			_											
Client:	GHN	Sec	vices, Inc.	🛛 🕅 Standard	□ Rush																
				Project Name														KA	ТО	RY	
Mailing	Address	:/1)1-T	Indian School Rd. Ste200	2A-:	NR										men						
$\frac{1}{A/F}$	1	6121J	iNM 87116	Project #:										-			M 87				
<u>NF A</u> Dhono	<u>10090</u> #. 905	vou	0672	11135250-07				Te	el. 50	05-34	15-39						-410	7	<u>مند کار</u>	_	
			d. Backischoghd.com	Project Mana				N)	$\widehat{\mathbf{O}}$			A	many		Req	uest		- T		<b>-</b>	
	Package:	CIUCI	a backbang nation	7	_	1	(8021)	oul	MR					SO4	3.s			-			
□ Stan	· ·		Level 4 (Full Validation)	Bern	ard Do	ochisch	s (80	TPH (Gas only)	10			SIMS)		04	PCB!			Я			
Accredi	itation			Sampler:			TMB's	), T	RO	_		0.5		02,1	082			N.			~
D NEL		□ Othe	er	On Ice:	r∎∕Yes	⊡ No	+	+	0°	,18	04.	8270	"	o <sub>3</sub> ,⊳	s / 8		R				or N
	(Type)_			Sample Tem	perature: ح	0	MTBE	Ш	0	od 4	2 po	0 or	etals	Ň,	cide	A)		2			ξ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1707E88	BTEX + M1	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310	<b>RCRA 8 Metals</b>	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Ch lorid			Air Bubbles (Y or N)
7/27	1040	S	5-11135250-07-072717-46-TP-12	4orSoil	ICE	-001	$\overline{X}$	ш	$\overline{X}$			<u> </u>	<u> </u>	4	8	8	8	X		+	_
7/27	1050		S-11135250-07-072717-465782-2			- 00 Z	X		X									$\overline{\mathbf{X}}$			
7127	1130		5-11135250-07-072711-46TP-32			-003	$\times$		X									$\overline{\mathbf{X}}$		╇╴┟	
7127	1210		5-11135250-07-072717-46-TP-5-6			- 004	$\overline{\chi}$	_	X									$\overline{\mathbf{X}}$			
	1235		541135250-07-072717-METP-4-2			- 005	$\overline{\mathbf{X}}$		$\overline{\mathbf{N}}$	$\leftarrow$		-					(		+	++	
<u>4 °</u>									-									<u> </u>	+	+	
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Date: 7   27	Time: 1430	Relinquish	ed by:	Received by:	h	1 27 1 1 1 1 36	Rem	narks	1 S:									I	L	<u> </u>	
	Time:	Relingish			۲ ۲	Date Time															

If necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

October 18, 2017

Bernie Bockisch GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

RE: 2A 20

OrderNo.: 1710678

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/12/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order: 1710678

Date Reported: 10/18/2017

CLIENT:GHDProject:2A 20					Lab C	<b>)rder:</b> 1710	)678	
Lab ID: 1710678-001			(	Collection Da	te: 10	/10/2017 11:30:0	0 AM	
Client Sample ID: S-11135250-07-101	017-MG-HA-	1		Matr	rix: SC	DIL		
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300.0: ANIONS						Ar	nalyst:	MRA
Chloride	92	30		mg/Kg	20	10/13/2017 2:44:0	-	
EPA METHOD 8015M/D: DIESEL RANG		6		0 0				том
Diesel Range Organics (DRO)	15	- 10		mg/Kg	1	10/16/2017 6:43:0	-	
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/16/2017 6:43:0		
Surr: DNOP	80.8	70-130		%Rec	1	10/16/2017 6:43:0		
EPA METHOD 8015D: GASOLINE RAN								NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/13/2017 5:53:2	•	
Surr: BFB	94.3	54-150		%Rec	1	10/13/2017 5:53:2		
EPA METHOD 8021B: VOLATILES	0.110	0.100						NSB
Benzene	ND	0.024		malka	1	10/13/2017 5:53:2	-	
Toluene	ND	0.024		mg/Kg mg/Kg	1	10/13/2017 5:53:2		
Ethylbenzene	ND	0.049		mg/Kg	1	10/13/2017 5:53:2		
Xylenes, Total	ND	0.043		mg/Kg	1	10/13/2017 5:53:2		
Surr: 4-Bromofluorobenzene	98.9	66.6-132		%Rec	1	10/13/2017 5:53:2		
Lab ID: 1710678-002			(	Collection Da	te: 10	/10/2017 11:32:0	0 AM	
						**		
					ix: SC			
Client Sample ID: S-11135250-07-101	017-MG-HA- Result			Matr Units	ix: SC	DIL Date Analyzed	Ba	tch ID
Client Sample ID: S-11135250-07-101					ix: SC	Date Analyzed		ntch II MRA
Client Sample ID: S-11135250-07-101 Analyses			Qual		ix: SC	Date Analyzed	nalyst:	MRA
Client Sample ID: S-11135250-07-101 Analyses EPA METHOD 300.0: ANIONS	Result	PQL 30	Qual	Units	ix: SC DF	Date Analyzed Ar 10/13/2017 3:21:	nalyst: 15 PM	<b>MRA</b> 34404
Client Sample ID: S-11135250-07-101 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG	Result 160 E ORGANICS	<b>PQL</b> 30	Qual	Units mg/Kg	ix: SC DF	Date Analyzed Ar 10/13/2017 3:21: Ar	nalyst: 15 PM nalyst:	MRA 34404 TOM
Client Sample ID: S-11135250-07-101 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG Diesel Range Organics (DRO)	Result	PQL 30	Qual	Units mg/Kg mg/Kg	<b>'ix:</b> SC DF 20	Date Analyzed Ar 10/13/2017 3:21:	nalyst: 15 PM nalyst: 55 PM	MRA 34404 TOM 34401
Client Sample ID: S-11135250-07-101 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG	<b>Result</b> 160 <b>5E ORGANICS</b> 8400	PQL 30 5 97	Qual	Units mg/Kg	<b>ix:</b> SC <b>DF</b> 20 10	Date Analyzed Ar 10/13/2017 3:21: Ar 10/16/2017 2:59:	nalyst: 15 PM nalyst: 55 PM 55 PM	MRA 34404 TOM 34404 34404
Client Sample ID: S-11135250-07-101 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	<b>Result</b> 160 <b>E ORGANICS</b> 8400 3200 0	<b>PQL</b> 30 <b>5</b> 97 490	Qual	Units mg/Kg mg/Kg mg/Kg	ix: SC DF 20 10 10	Date Analyzed Ar 10/13/2017 3:21: Ar 10/16/2017 2:59: 10/16/2017 2:59: 10/16/2017 2:59:	nalyst: 15 PM nalyst: 55 PM 55 PM 55 PM	MRA 34404 TOM 34401 34401 34401
Client Sample ID: S-11135250-07-101 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP EPA METHOD 8015D: GASOLINE RANG	<b>Result</b> 160 <b>E ORGANICS</b> 8400 3200 0 <b>GE</b>	PQL 30 97 490 70-130	<b>Qual</b>	Units mg/Kg mg/Kg %Rec	ix: SC DF 20 10 10	Date Analyzed Ar 10/13/2017 3:21: Ar 10/16/2017 2:59: 10/16/2017 2:59: 10/16/2017 2:59:	nalyst: 15 PM nalyst: 55 PM 55 PM 55 PM nalyst:	MRA 34404 TOM 34401 34401 34401 NSB
Client Sample ID: S-11135250-07-101 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	<b>Result</b> 160 <b>E ORGANICS</b> 8400 3200 0	<b>PQL</b> 30 <b>5</b> 97 490	<b>Qual</b>	Units mg/Kg mg/Kg mg/Kg	ix: SC DF 20 10 10 10	Date Analyzed Ar 10/13/2017 3:21: Ar 10/16/2017 2:59: 10/16/2017 2:59: 10/16/2017 2:59: Ar	nalyst: 15 PM 55 PM 55 PM 55 PM 55 PM nalyst: 46 PM	MRA 34404 TOM 34401 34401 34401 NSB 34383
Client Sample ID: S-11135250-07-101 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP EPA METHOD 8015D: GASOLINE RANG Gasoline Range Organics (GRO)	Result           160 <b>E ORGANICS</b> 8400           3200           0           GE           80	PQL 30 97 490 70-130 4.6	<b>Qual</b>	Units mg/Kg mg/Kg %Rec mg/Kg	ix: SC DF 20 10 10 10 10	Date Analyzed Ar 10/13/2017 3:21: Ar 10/16/2017 2:59: 10/16/2017 2:59: 10/16/2017 2:59: Ar 10/13/2017 6:16: 10/13/2017 6:16:	nalyst: 15 PM 55 PM 55 PM 55 PM 55 PM nalyst: 46 PM 46 PM	MRA 34404 <b>TOM</b> 34404 34404 <b>NSB</b> 34383 34383
Client Sample ID: S-11135250-07-1019 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP EPA METHOD 8015D: GASOLINE RANG Gasoline Range Organics (GRO) Surr: BFB	Result           160 <b>BE ORGANICS</b> 8400           3200           0 <b>GE</b> 80           664	PQL 30 97 490 70-130 4.6 54-150	<b>Qual</b> S	Units mg/Kg mg/Kg %Rec mg/Kg %Rec	ix: SC DF 20 10 10 10 10	Date Analyzed Ar 10/13/2017 3:21: Ar 10/16/2017 2:59: 10/16/2017 2:59: 10/16/2017 2:59: Ar 10/13/2017 6:16:4 10/13/2017 6:16:4 Ar	nalyst: 15 PM 55 PM 55 PM 55 PM 55 PM nalyst: 46 PM 46 PM	MRA 34404 TOM 34404 34404 34404 NSB 34383 34383 34383 NSB
Client Sample ID: S-11135250-07-1019 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP EPA METHOD 8015D: GASOLINE RANG Gasoline Range Organics (GRO) Surr: BFB EPA METHOD 8021B: VOLATILES Benzene	Result           160           E ORGANICS           8400           3200           0           GE           80           664           ND	PQL 30 97 490 70-130 4.6 54-150 0.023	Qual S S	Units mg/Kg mg/Kg %Rec mg/Kg %Rec mg/Kg	ix: SC DF 20 10 10 10 10 10 1 1	Date Analyzed Ar 10/13/2017 3:21: Ar 10/16/2017 2:59:3 10/16/2017 2:59:3 10/16/2017 2:59:3 10/16/2017 2:59:3 Ar 10/13/2017 6:16:4 Ar 10/13/2017 6:16:4	nalyst: 15 PM 55 PM 55 PM 55 PM 55 PM 16 PM 46 PM 146 PM 146 PM	MRA 34404 34404 34404 34404 NSB 34383 34383 NSB 34383
Client Sample ID: S-11135250-07-1014 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP EPA METHOD 8015D: GASOLINE RANG Gasoline Range Organics (GRO) Surr: BFB EPA METHOD 8021B: VOLATILES Benzene Toluene	Result 160 E ORGANICS 8400 3200 0 GE 80 664 ND ND	PQL 30 97 490 70-130 4.6 54-150 0.023 0.046	Qual S S	Units mg/Kg mg/Kg mg/Kg %Rec mg/Kg mg/Kg	ix: SC DF 20 10 10 10 10 10 10 11	Date Analyzed Ar 10/13/2017 3:21: Ar 10/16/2017 2:59: 10/16/2017 2:59: 10/16/2017 2:59: Ar 10/13/2017 6:16: Ar 10/13/2017 6:16: Ar	nalyst: 15 PM 55 PM 55 PM 55 PM 55 PM 55 PM 16 PM 16 PM 16 PM 16 PM	MRA 34404 34407 34407 34407 34407 NSB 34383 34383 34383 34383
Client Sample ID: S-11135250-07-1019 Analyses EPA METHOD 300.0: ANIONS Chloride EPA METHOD 8015M/D: DIESEL RANG Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP EPA METHOD 8015D: GASOLINE RANG Gasoline Range Organics (GRO) Surr: BFB EPA METHOD 8021B: VOLATILES Benzene	Result           160           E ORGANICS           8400           3200           0           GE           80           664           ND	PQL 30 97 490 70-130 4.6 54-150 0.023	Qual S S	Units mg/Kg mg/Kg %Rec mg/Kg %Rec mg/Kg	ix: SC DF 20 10 10 10 10 1 1 1 1 1	Date Analyzed Ar 10/13/2017 3:21: Ar 10/16/2017 2:59:3 10/16/2017 2:59:3 10/16/2017 2:59:3 10/16/2017 2:59:3 Ar 10/13/2017 6:16:4 Ar 10/13/2017 6:16:4	nalyst: 15 PM 55 PM 56 PM 46 PM 46 PM 46 PM	MRA 34404 34404 34404 34404 NSB 34383 34383 34383 34383 34383 34383

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Qualifiers: \* Value exceeds Maximum Contaminant Level.
  - D Sample Diluted Due to Matrix
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit
  - PQL Practical Quanitative Limit
  - S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1710678

Date Reported: 10/18/2017

CLIENT:GHDProject:2A 20						Lab O	rder: 17	10678	
Lab ID: 1710	678-003			(	Collection Dat	e: 10/	10/2017 11:35	5:00 AM	
Client Sample ID: S-11	135250-07-1010	17-MG-HA-3			Matri	x: SO	IL		
Analyses		Result	PQL	Qual	Units	DF	Date Analyzo	ed Ba	tch ID
EPA METHOD 300.0: AN	IIONS							Analyst:	MRA
Chloride		320	30		mg/Kg	20	10/13/2017 3:3	33:40 PM	34404
EPA METHOD 8015M/D:	DIESEL RANGE							Analyst:	том
Diesel Range Organics (DI		13000	960		mg/Kg	100	10/16/2017 11	-	
Motor Oil Range Organics		7400	4800		mg/Kg		10/16/2017 11		
Surr: DNOP	(	0	70-130		%Rec		10/16/2017 11		
EPA METHOD 8015D: G	ASOLINE RANG	E						Analyst:	NSB
Gasoline Range Organics	(GRO)	140	9.9		mg/Kg	2	10/13/2017 7:0	-	
Surr: BFB	()	389	54-150		%Rec	2	10/13/2017 7:0	03:37 PM	34383
EPA METHOD 8021B: VO	OLATILES							Analyst:	NSB
Benzene		ND	0.050		mg/Kg	2	10/13/2017 7:0	-	
Toluene		0.11	0.099		mg/Kg	2	10/13/2017 7:0		
Ethylbenzene		0.90	0.099		mg/Kg	2	10/13/2017 7:0	03:37 PM	34383
Xylenes, Total		4.8	0.20		mg/Kg	2	10/13/2017 7:0	03:37 PM	34383
Surr: 4-Bromofluorobenz	zene	123	66.6-132		%Rec	2	10/13/2017 7:0	03:37 PM	34383
Lab ID: 1710	678-004			(	Collection Dat	<b>e:</b> 10/	10/2017 11:40	):00 AM	
Client Sample ID: S-11		17-MG-HA-4				x: SO			
								ad Ba	tch ID
Analyses		Result	PQL	Qual	Units	DF	Date Analyze	u Du	
Analyses EPA METHOD 300.0: AN	lions	Result	PQL	Qual	Units	DF	Date Analyze		MRA
-	lions	Result	PQL 30	-		<b>DF</b> 20	Date Analyze	Analyst:	
EPA METHOD 300.0: AN Chloride		120		-	Units mg/Kg			Analyst: 16:04 PM	34404
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D:	DIESEL RANGE	120 E ORGANICS	30	-	mg/Kg	20	10/13/2017 3:4	Analyst: 16:04 PM Analyst:	34404 <b>TOM</b>
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D: Diesel Range Organics (Df	DIESEL RANGE	120 E ORGANICS 790	30		mg/Kg mg/Kg	20 1	10/13/2017 3:4 10/16/2017 7:*	Analyst: 16:04 PM Analyst: 11:08 PM	34404 <b>TOM</b> 34401
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D: Diesel Range Organics (Df Motor Oil Range Organics	DIESEL RANGE	120 <b>E ORGANICS</b> 790 590	30 9.7 48		mg/Kg mg/Kg mg/Kg	20	10/13/2017 3:4 10/16/2017 7: 10/16/2017 7:	Analyst: 46:04 PM Analyst: 11:08 PM 11:08 PM	34404 <b>TOM</b> 34401 34401
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D: Diesel Range Organics (DF Motor Oil Range Organics Surr: DNOP	DIESEL RANGE RO) (MRO)	120 <b>E ORGANICS</b> 790 590 108	30		mg/Kg mg/Kg	20 1 1	10/13/2017 3:4 10/16/2017 7:*	Analyst: 46:04 PM Analyst: 11:08 PM 11:08 PM 11:08 PM	34404 <b>TOM</b> 34401 34401 34401
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D: Diesel Range Organics (DF Motor Oil Range Organics Surr: DNOP EPA METHOD 8015D: G	DIESEL RANGE RO) (MRO) ASOLINE RANG	120 E ORGANICS 790 590 108 E	30 9.7 48 70-130		mg/Kg mg/Kg mg/Kg %Rec	20 1 1 1	10/13/2017 3:4 10/16/2017 7: 10/16/2017 7: 10/16/2017 7:	Analyst: 46:04 PM Analyst: 11:08 PM 11:08 PM 11:08 PM 11:08 PM	34404 TOM 34401 34401 34401 NSB
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D: Diesel Range Organics (Df Motor Oil Range Organics Surr: DNOP EPA METHOD 8015D: G Gasoline Range Organics	DIESEL RANGE RO) (MRO) ASOLINE RANG	120 E ORGANICS 790 590 108 E ND	30 9.7 48 70-130 4.8	-	mg/Kg mg/Kg mg/Kg %Rec mg/Kg	20 1 1 1	10/13/2017 3:4 10/16/2017 7: 10/16/2017 7: 10/16/2017 7: 10/13/2017 7:	Analyst: 46:04 PM Analyst: 11:08 PM 11:08 PM 11:08 PM 11:08 PM Analyst: 50:29 PM	34404 TOM 34401 34401 34401 NSB 34383
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D: Diesel Range Organics (DF Motor Oil Range Organics Surr: DNOP EPA METHOD 8015D: G Gasoline Range Organics Surr: BFB	DIESEL RANGE RO) (MRO) ASOLINE RANG (GRO)	120 E ORGANICS 790 590 108 E	30 9.7 48 70-130	-	mg/Kg mg/Kg mg/Kg %Rec	20 1 1 1	10/13/2017 3:4 10/16/2017 7: 10/16/2017 7: 10/16/2017 7:	Analyst: 46:04 PM Analyst: 11:08 PM 11:08 PM 11:08 PM Analyst: 50:29 PM	34404 <b>TOM</b> 34401 34401 <b>34401</b> <b>NSB</b> 34383 34383
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D: Diesel Range Organics (Df Motor Oil Range Organics Surr: DNOP EPA METHOD 8015D: G Gasoline Range Organics Surr: BFB EPA METHOD 8021B: Ve	DIESEL RANGE RO) (MRO) ASOLINE RANG (GRO)	120 <b>F ORGANICS</b> 790 590 108 <b>E</b> ND 88.7	30 9.7 48 70-130 4.8 54-150		mg/Kg mg/Kg mg/Kg %Rec mg/Kg %Rec	20 1 1 1 1 1	10/13/2017 3:4 10/16/2017 7: 10/16/2017 7: 10/16/2017 7: 10/13/2017 7: 10/13/2017 7:	Analyst: 46:04 PM Analyst: 11:08 PM 11:08 PM 11:08 PM Analyst: 50:29 PM 50:29 PM Analyst:	34404 TOM 34401 34401 NSB 34383 34383 NSB
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D: Diesel Range Organics (Df Motor Oil Range Organics Surr: DNOP EPA METHOD 8015D: G Gasoline Range Organics Surr: BFB EPA METHOD 8021B: VG Benzene	DIESEL RANGE RO) (MRO) ASOLINE RANG (GRO)	120 E ORGANICS 790 590 108 E ND 88.7 ND	30 9.7 48 70-130 4.8 54-150 0.024		mg/Kg mg/Kg mg/Kg %Rec mg/Kg %Rec mg/Kg	20 1 1 1 1 1 1	10/13/2017 3:4 10/16/2017 7: 10/16/2017 7: 10/16/2017 7: 10/13/2017 7: 10/13/2017 7: 10/13/2017 7:	Analyst: 46:04 PM Analyst: 11:08 PM 11:08 PM 11:08 PM Analyst: 50:29 PM Analyst: 50:29 PM	34404 TOM 34401 34401 NSB 34383 34383 NSB 34383
EPA METHOD 300.0: AN Chloride EPA METHOD 8015M/D: Diesel Range Organics (Df Motor Oil Range Organics Surr: DNOP EPA METHOD 8015D: G Gasoline Range Organics Surr: BFB EPA METHOD 8021B: VO Benzene Toluene	DIESEL RANGE RO) (MRO) ASOLINE RANG (GRO)	120 E ORGANICS 790 590 108 E ND 88.7 ND 88.7	30 9.7 48 70-130 4.8 54-150 0.024 0.024		mg/Kg mg/Kg %Rec mg/Kg %Rec mg/Kg mg/Kg	20 1 1 1 1 1 1 1	10/13/2017 3:4 10/16/2017 7: 10/16/2017 7: 10/16/2017 7: 10/13/2017 7: 10/13/2017 7: 10/13/2017 7:	Analyst: 46:04 PM Analyst: 11:08 PM 11:08 PM 11:08 PM Analyst: 50:29 PM 50:29 PM 50:29 PM 50:29 PM	34404 TOM 34401 34401 NSB 34383 34383 34383 34383 34383
Chloride EPA METHOD 8015M/D: Diesel Range Organics (Df Motor Oil Range Organics Surr: DNOP EPA METHOD 8015D: G Surr: BFB EPA METHOD 8021B: VG Benzene	DIESEL RANGE RO) (MRO) ASOLINE RANG (GRO)	120 E ORGANICS 790 590 108 E ND 88.7 ND	30 9.7 48 70-130 4.8 54-150 0.024		mg/Kg mg/Kg mg/Kg %Rec mg/Kg %Rec mg/Kg	20 1 1 1 1 1 1	10/13/2017 3:4 10/16/2017 7: 10/16/2017 7: 10/16/2017 7: 10/13/2017 7: 10/13/2017 7: 10/13/2017 7:	Analyst: 46:04 PM Analyst: 11:08 PM 11:08 PM 11:08 PM Analyst: 50:29 PM 50:29 PM 50:29 PM 50:29 PM 50:29 PM	34404 TOM 34401 34401 NSB 34383 34383 34383 34383 34383 34383 34383

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Qualifiers: \* Value exceeds Maximum Contaminant Level.
  - D Sample Diluted Due to Matrix
  - H Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1710678

Date Reported: 10/18/2017

02221010	GHD A 20					Lab O	rder: 1710	678	
Lab ID:	1710678-005				Collection D	ate: 10/	10/2017 11:45:00	) AM	
Client Sample ID:	S-11135250-07-101	017-MG-HA-5			Mat	trix: SO	IL		
Analyses		Result	PQL (	Qual	Units	DF	Date Analyzed	Batch	h ID
EPA METHOD 300	0.0: ANIONS						An	alyst: M	IRA
Chloride		ND	30		mg/Kg	20	10/13/2017 3:58:2	8 PM 34	4404
EPA METHOD 801	5M/D: DIESEL RANG	GE ORGANICS					An	alyst: TO	ОМ
Diesel Range Orga	nics (DRO)	1400	92		mg/Kg	10	10/17/2017 1:09:3	5 PM 34	4401
Motor Oil Range Or	ganics (MRO)	990	460		mg/Kg	10	10/17/2017 1:09:3	5 PM 34	4401
Surr: DNOP		0	70-130	S	%Rec	10	10/17/2017 1:09:3	5 PM 34	4401
EPA METHOD 801	5D: GASOLINE RAN	IGE					An	alyst: N	SB
Gasoline Range Or	ganics (GRO)	ND	4.8		mg/Kg	1	10/13/2017 8:13:5	6 PM 34	4383
Surr: BFB		93.0	54-150		%Rec	1	10/13/2017 8:13:5	6 PM 34	4383
EPA METHOD 802	1B: VOLATILES						An	alyst: N	SB
Benzene		ND	0.024		mg/Kg	1	10/13/2017 8:13:5	6 PM 34	4383
Toluene		ND	0.048		mg/Kg	1	10/13/2017 8:13:5	6 PM 34	4383
Ethylbenzene		ND	0.048		mg/Kg	1	10/13/2017 8:13:5	6 PM 34	4383
Xylenes, Total		ND	0.097		mg/Kg	1	10/13/2017 8:13:5	6 PM 34	4383
Surr: 4-Bromoflue	orobenzene	96.4	66.6-132		%Rec	1	10/13/2017 8:13:5	6 PM 34	4383

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank

- Е Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 7
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

### Client: GHD Project: 2A 20

Sample ID MB-34404	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 34404	RunNo: 46328		
Prep Date: 10/13/2017	Analysis Date: 10/13/2017	SeqNo: 1476892	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Chloride Sample ID LCS-34404	ND 1.5 SampType: Ics	TestCode: EPA Method	300.0: Anions	
		TestCode: EPA Method RunNo: 46328	300.0: Anions	
Sample ID LCS-34404	SampType: Ics		300.0: Anions Units: mg/Kg	
Sample ID LCS-34404 Client ID: LCSS	SampType: Ics Batch ID: 34404 Analysis Date: 10/13/2017	RunNo: 46328		RPDLimit Qual

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 4 of 7

# Client:GHDProject:2A 20

Sample ID LCS-34401	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 34	401	F	RunNo: 4	6361				
Prep Date: 10/13/2017	Analysis D	ate: 10	0/16/2017	5	SeqNo: 14	476752	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.3	73.2	114			
			5 000		00.0	70	130			
Surr: DNOP	4.6		5.000		92.8	70	130			
Surr: DNOP Sample ID MB-34401		ype: ME		Tes			8015M/D: Die	esel Range	e Organics	
Sample ID MB-34401	SampT	ÿpe: <b>ME</b> n ID: <b>34</b>	BLK			PA Method		esel Range	e Organics	
Sample ID MB-34401 Client ID: PBS	SampT	n ID: 34	BLK	F	tCode: El	PA Method		U	e Organics	
Sample ID MB-34401 Client ID: PBS	SampT Batch	n ID: 34	3LK 401 0/16/2017	F	tCode: El	PA Method	8015M/D: Die	U	e Organics	Qual
Sample ID MB-34401 Client ID: PBS Prep Date: 10/13/2017 Analyte	SampT Batch Analysis D	n ID: 34 Date: 10	3LK 401 0/16/2017	F	tCode: EF RunNo: 40 SeqNo: 14	PA Method 5361 176753	8015M/D: Die Units: mg/K	(g	U	Qual
Sample ID <b>MB-34401</b> Client ID: <b>PBS</b> Prep Date: <b>10/13/2017</b>	SampT Batch Analysis D Result	n ID: <b>34</b> Date: <b>1(</b> PQL	3LK 401 0/16/2017	F	tCode: EF RunNo: 40 SeqNo: 14	PA Method 5361 176753	8015M/D: Die Units: mg/K	(g	U	Qual

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 5 of 7

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

GHD

Project: 2A 20										
Sample ID MB-34383	SampTy	pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch I	ID: 343	383	F	RunNo: 4	6333				
Prep Date: 10/12/2017	Analysis Da	te: 10	)/13/2017	S	SeqNo: 1	476152	Units: <b>mg/k</b>	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.7	54	150			
Sample ID LCS-34383	SampTy	pe: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch I	ID: 34	383	F	RunNo: 4	6333				
Prep Date: 10/12/2017	Analysis Da	te: 10	)/13/2017	5	SeqNo: 1	476153	Units: mg/k	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	119	75.9	131			
Surr: BFB	1100		1000		109	54	150			

### **Qualifiers:**

**Client:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 6 of 7

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#:	1710678
	18-Oct-17

# Client:GHDProject:2A 20

Sample ID MB-34383	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 34	383	F	RunNo: 4	6333				
Prep Date: 10/12/2017	Analysis E	Date: 10	0/13/2017	S	SeqNo: 1	476175	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	66.6	132			
Sample ID LCS-34383	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 34	383	F	RunNo: 4	6333				
Prep Date: 10/12/2017	Analysis E	Date: 10	0/13/2017	S	SeqNo: 1	476176	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	80	120			
Toluene	0.97	0.050	1.000	0	97.0	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	66.6	132			

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 7 of 7

ANALYSIS LABORATORY TEL: 505-345-39	tal Analysis Labore 4901 Hawkin Ubuquerque, NM 8 175 FAX: 505-345 hallenvironmental	s NE 7109 Samp 1107	ole Log-In Check List
Client Name: GHD Work Order Numb	er: 1710678		RcptNo: 1
Received By: Isaiah Ortiz 10/12/2017 9:15:00	AM	Iat	
Completed By: Sophia Campuzano 10/12/2017 10:05:00	MA 0	Souther Lagran	
Reviewed By: DDS (0/12/17			
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present 🗹
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
3. How was the sample delivered?	Courier		
Log In			
4. Was an attempt made to cool the samples?	Yes 🔽	No 🗌	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🔽	No 🗌	
6. Sample(s) in proper container(s)?	Yes 🔽	No 🗌	
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆	
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials 🗹
11, Were any sample containers received broken?	Yes 🗆	No 🗹	# of preserved
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12 unless noted)

Yes 🗹

Yes 🗸

Yes 🗸

No 🗌

No 🗌

No 🗌

Adjusted?

Checked by:

13. Are matrices correctly identified on Chain of Custody?14. Is it clear what analyses were requested?15. Were all holding times able to be met?

(If no, notify customer for authorization.)

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?	Yes No No NA 🗹
Person Notified: By Whom:	Date: Via:eMailPhoneFax In Person
Regarding: Client Instructions:	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Yes			

Page 1 of 1

.

Client: Mailing <u>NEA</u> Phone	Address Ibvqve #: 505	Servi GIZI I Save, A 884	ustody Record ces. Inc. Manschool Rd Ste200 M 87110 0672	Project #: i 135:	<b>Rush</b> e: 250-07			To	el. 50	<b>a</b> wk	N www ins N	<b>AL</b> w.ha NE - 975	Ilenv Alt Inaly	sis viron buqu ax ysis	SL men erqu 505	<b>A</b> tal.cr ie, N -345	BO om M 87 -410	<b>R</b>		
	Package: dard tation AP	Chard.	DockischOghd.com		ichael C Extes	risch ant 0.3	DE 1 1014 (8021)	BE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	d 418.1)	(Method 504.1)	) or 8270 SIMS)	tals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	0	VOA)	e 300		(Y ar N)
Date 16/10/17	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1710678	BTEX +	BTEX + MTBE	<b>TPH 8015B</b>	TPH (Method 418.1)	EDB (Metho	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI	8081 Pestici	8260B (VOA)	8270 (Semi-VOA)	Chlonde		Air Bubbles (Y or N)
10/10/17	1130	5	S-11135260-07-101017-M.6- HA-1	402 Sal Jar	ICE	-001	X		X								1	×		
10/10/17	1132	S	5-11135250-07-101017-MG- HA-2			-002	X		×									×		
10/10/17	1135	S	5-1135250-07-101017-M6-HA-3			-003	X		X									X		
10/10/17	1140	5	5-11135250-07-101017-MG-HA-4			-004	X		×									×		
10/0/17	1145	S	8-11135250-07-101017-MG-HA-5		(	-005	×		×									×		
Date:	Time:	Relinguish	ed by	Receivedov	/	Date Time														
10/11/17 Date: 0(4/11	1530 Time: (910)	Religuish	have	Receiveroy	$\frac{1}{2}$	10/11/17 153		narks	50											

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

January 11, 2018

Bernie Bockisch GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

RE: 2A 20

OrderNo.: 1712D88

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/22/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order: 1712D88

Date Reported: 1/11/2018

	GHD 2A 20				Lab C	<b>Prder:</b> 1712	D88
Lab ID:	1712D88-001			Collection D	ate: 12	/21/2017 9:26:00 /	AM
Client Sample ID:	11135250-7-122117	-BB1		Mat	t <b>rix:</b> SO	IL	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					An	alyst: MRA
Chloride		ND	30	mg/Kg	20	1/9/2018 2:21:23 F	PM 35887
EPA METHOD 801	15M/D: DIESEL RANG	E ORGANICS				An	alyst: <b>TOM</b>
Diesel Range Orga	nics (DRO)	ND	10	mg/Kg	1	12/29/2017 1:57:5	5 PM 35722
Motor Oil Range O	rganics (MRO)	ND	50	mg/Kg	1	12/29/2017 1:57:5	5 PM 35722
Surr: DNOP		115	70-130	%Rec	1	12/29/2017 1:57:5	5 PM 35722
EPA METHOD 801	15D: GASOLINE RAN	GE				An	alyst: <b>NSB</b>
Gasoline Range Or	ganics (GRO)	ND	4.9	mg/Kg	1	12/27/2017 10:59:	16 AM 35701
Surr: BFB		104	15-316	%Rec	1	12/27/2017 10:59:	16 AM 35701
Lab ID:	1712D88-002			Collection D	ate: 12	/21/2017 9:30:00	AM
Client Sample ID:	11135250-7-122117	-BB2		Mat	trix: SC	NL	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					An	alyst: MRA
Chloride		57	30	mg/Kg	20	1/9/2018 2:33:48 F	PM 35887
EPA METHOD 801	15M/D: DIESEL RANG	E ORGANICS				An	alyst: <b>TOM</b>
Diesel Range Orga	nics (DRO)	470	9.8	mg/Kg	1	12/29/2017 2:22:2	1 PM 35722
Motor Oil Range O	rganics (MRO)	400	49	mg/Kg	1	12/29/2017 2:22:2	1 PM 35722
Surr: DNOP		118	70-130	%Rec	1	12/29/2017 2:22:2	1 PM 35722
EPA METHOD 801	15D: GASOLINE RAN	GE				An	alyst: <b>NSB</b>
Gasoline Range Or	ganics (GRO)	ND	4.8	mg/Kg	1	12/27/2017 2:58:4	-

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 4
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

GHD

WO#: 1712D88 11-Jan-18

Project: 2A 20				
Sample ID MB-35887	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 35887	RunNo: 48295		
Prep Date: 1/6/2018	Analysis Date: 1/7/2018	SeqNo: 1551034	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-35887	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 35887	RunNo: 48295		
Prep Date: 1/6/2018	Analysis Date: 1/7/2018	SeqNo: 1551035	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	15 1.5 15.00	0 96.7 90	110	

### **Qualifiers:**

**Client:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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# Client:GHDProject:2A 20

Sample ID LCS-35722	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 35	722	F	RunNo: 4	3059				
Prep Date: 12/27/2017	Analysis D	Date: 12	2/28/2017	S	SeqNo: 1	540466	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.4	73.2	114			
C. DNOD	4 5		E 000		00.4	70	130			
Surr: DNOP	4.5		5.000		90.1	70	130			
Sample ID MB-35722		ype: ME				-	8015M/D: Di	esel Range	e Organics	
	SampT	ype: <b>ME</b> n ID: <b>35</b>	BLK	Tes		PA Method		esel Rang	e Organics	
Sample ID MB-35722	SampT	n ID: 35	BLK	Tes	tCode: El	PA Method 3059		U	e Organics	
Sample ID MB-35722 Client ID: PBS	SampT Batcl	n ID: 35	BLK 722 2/28/2017	Tes	tCode: El	PA Method 3059	8015M/D: Di	U	e Organics	Qual
Sample ID MB-35722 Client ID: PBS Prep Date: 12/27/2017 Analyte	SampT Batch Analysis D	n ID: 35 Date: 12	BLK 722 2/28/2017	Tes F S	tCode: EF RunNo: 44 SeqNo: 1	PA Method 8059 540467	8015M/D: Die Units: mg/M	(g	U	Qual
Sample ID         MB-35722           Client ID:         PBS           Prep Date:         12/27/2017	SampT Batcl Analysis D Result	n ID: 35 Date: 12 PQL	BLK 722 2/28/2017	Tes F S	tCode: EF RunNo: 44 SeqNo: 1	PA Method 8059 540467	8015M/D: Die Units: mg/M	(g	U	Qual

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	GHD										
Project:	2A 20										
Sample ID	MB-35701	SampType	e: Me	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch ID	): 35	701	F	RunNo: 4	8032		-		
Prep Date:	12/26/2017	Analysis Date	e: 12	2/27/2017	S	SeqNo: 1	539809	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		1100		1000		114	15	316			
Sample ID	LCS-35701	SampType	e: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch ID	): 35	701	F	RunNo: 4	8032				
Prep Date:	12/26/2017	Analysis Date	e: 12	2/27/2017	5	SeqNo: 1	539810	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
5	e Organics (GRO)	27	5.0	25.00	0	109	75.9	131			
Surr: BFB		1200		1000		124	15	316			
Sample ID	1712D88-001AMS	SampType	e: MS	6	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	11135250-7-1221	17- Batch ID	): 35	701	F	RunNo: 4	8032				
Prep Date:	12/26/2017	Analysis Date	e: 12	2/27/2017	S	SeqNo: 1	539812	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	30	4.9	24.30	0	125	77.8	128			
Gasoline Rang Surr: BFB	e Organics (GRO)	30 1200	4.9	24.30 971.8	0	125 121	77.8 15	128 316			
Surr: BFB	e Organics (GRO) 1712D88-001AMS	1200		971.8		121	15		line Rang	e	
Surr: BFB		1200 SD SampType	e: M\$	971.8	Tes	121	15 PA Method	316	line Rang	e	
Surr: BFB Sample ID Client ID:	1712D88-001AMS	1200 SD SampType	e: MS	971.8 SD 701	Tes	121 tCode: El	15 PA Method 8032	316	C	e	
Surr: BFB Sample ID Client ID:	1712D88-001AMS 11135250-7-1221	1200 SD SampType 17- Batch ID Analysis Date	e: MS	971.8 SD 701 2/27/2017	Tes	121 tCode: Ef	15 PA Method 8032	316 8015D: Gaso	C	e RPDLimit	Qual
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang	1712D88-001AMS 11135250-7-1221	1200 5D SampType 17- Batch ID Analysis Date Result F 32	e: MS ): 35 e: 12	971.8 5D 701 2/27/2017 SPK value 24.63	Tes F S	121 tCode: EF RunNo: 4 SeqNo: 1 %REC 128	15 PA Method 8032 539813 LowLimit 77.8	316 8015D: Gaso Units: mg/K HighLimit 128	<b>.g</b> <u>%RPD</u> 3.74	RPDLimit 20	Qual S
Surr: BFB Sample ID Client ID: Prep Date: Analyte	1712D88-001AMS 11135250-7-1221 12/26/2017	1200 SD SampType 17- Batch ID Analysis Date Result F	e: M\$ ): 35 e: 12 PQL	971.8 5D 701 2/27/2017 SPK value	Tes F SPK Ref Val	121 tCode: <b>Ef</b> RunNo: <b>4</b> SeqNo: <b>1</b> %REC	15 PA Method 8032 539813 LowLimit	316 8015D: Gaso Units: mg/K HighLimit	íg %RPD	RPDLimit	
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	1712D88-001AMS 11135250-7-1221 12/26/2017 le Organics (GRO)	1200 5D SampType 17- Batch ID Analysis Date Result F 32	e: M\$ D: 35 e: 12 PQL 4.9	971.8 5D 701 2/27/2017 SPK value 24.63 985.2	Tes F SPK Ref Val 0	121 tCode: EF RunNo: 4 SeqNo: 1 %REC 128 123	15 PA Method 8032 539813 LowLimit 77.8 15	316 8015D: Gaso Units: mg/K HighLimit 128	<b>g</b> %RPD 3.74 0	RPDLimit 20 0	
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang	1712D88-001AMS 11135250-7-1221 12/26/2017 e Organics (GRO) MB-35757	1200 5D SampType 17- Batch ID Analysis Date Result F 32 1200	e: MS D: 35 D: 12 D QL 4.9 E: ME	971.8 5D 701 2/27/2017 SPK value 24.63 985.2 3LK	Tes F SPK Ref Val 0 Tes	121 tCode: EF RunNo: 4 SeqNo: 1 %REC 128 123	15 PA Method 8032 539813 LowLimit 77.8 15 PA Method	316 8015D: Gaso Units: mg/K HighLimit 128 316	<b>g</b> %RPD 3.74 0	RPDLimit 20 0	
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	1712D88-001AMS 11135250-7-1221 12/26/2017 e Organics (GRO) MB-35757	1200 SD SampType 17- Batch IE Analysis Date Result F 32 1200 SampType	e: MS 2: 35 2: 12 2QL 4.9 e: ME 2: 35	971.8 5D 701 2/27/2017 SPK value 24.63 985.2 3LK 757	Tes F SPK Ref Val 0 Tes F	121 tCode: EF RunNo: 44 SeqNo: 19 %REC 128 123 tCode: EF	15 PA Method 8032 539813 LowLimit 77.8 15 PA Method 8111	316 8015D: Gaso Units: mg/K HighLimit 128 316	<b>g</b> <u>%RPD</u> 3.74 0 line Rang	RPDLimit 20 0	
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	1712D88-001AMS 11135250-7-1221 12/26/2017 e Organics (GRO) MB-35757 PBS	1200 SD SampType 17- Batch IE Analysis Date Result F 32 1200 SampType Batch IE Analysis Date	e: MS 2: 35 2: 12 2QL 4.9 e: ME 2: 35	971.8 5D 701 2/27/2017 SPK value 24.63 985.2 3LK 757 2/29/2017	Tes F SPK Ref Val 0 Tes F	121 tCode: EF RunNo: 44 SeqNo: 19 %REC 128 123 tCode: EF RunNo: 44 SeqNo: 19	15 PA Method 8032 539813 LowLimit 77.8 15 PA Method 8111	316 8015D: Gaso Units: mg/K HighLimit 128 316 8015D: Gaso	<b>g</b> <u>%RPD</u> 3.74 0 line Rang	RPDLimit 20 0	
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date:	1712D88-001AMS 11135250-7-1221 12/26/2017 e Organics (GRO) MB-35757 PBS	1200 SD SampType 17- Batch IE Analysis Date Result F 32 1200 SampType Batch IE Analysis Date	e: MS D: 35 D: 12 D: 12 PQL 4.9 E: ME D: 35 D: 35 D: 12	971.8 5D 701 2/27/2017 SPK value 24.63 985.2 3LK 757 2/29/2017	Tes F SPK Ref Val 0 Tes F S	121 tCode: EF RunNo: 44 SeqNo: 19 %REC 128 123 tCode: EF RunNo: 44 SeqNo: 19	15 PA Method 8032 539813 LowLimit 77.8 15 PA Method 8111 542681	316 8015D: Gaso Units: mg/K HighLimit 128 316 8015D: Gaso Units: %Red	2 9 8 3.74 0 line Rang	RPDLimit 20 0	S
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Surr: BFB	1712D88-001AMS 11135250-7-1221 12/26/2017 e Organics (GRO) MB-35757 PBS	1200 5D SampType 17- Batch IE Analysis Date Result F 32 1200 SampType Batch IE Analysis Date Result F	e: MS 2: 35 PQL 4.9 E: ME 2: 35 2: 35 2: 12 PQL	971.8 5D 701 2/27/2017 SPK value 24.63 985.2 3LK 757 2/29/2017 SPK value 1000	Tes F SPK Ref Val 0 Tes F SPK Ref Val	121 tCode: EF RunNo: 44 SeqNo: 19 %REC 128 123 tCode: EF RunNo: 44 SeqNo: 19 %REC 83.3	15 PA Method 8032 539813 LowLimit 77.8 15 PA Method 8111 542681 LowLimit 15	316 8015D: Gaso Units: mg/K HighLimit 128 316 8015D: Gaso Units: %Rea HighLimit	g %RPD 3.74 0 line Rang %RPD	RPDLimit 20 0 e RPDLimit	S
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Surr: BFB Sample ID Sample ID	1712D88-001AMS 11135250-7-1221 12/26/2017 e Organics (GRO) MB-35757 PBS 12/28/2017 LCS-35757	1200 SD SampType 17- Batch IE Analysis Date Result F 32 1200 SampType Batch IE Analysis Date Result F 830	e: MS 2: 35 2: 12 2: 22 4.9 4.9 2: 35 2: 12 2: 22 2: 22	971.8 5D 701 2/27/2017 SPK value 24.63 985.2 3LK 757 2/29/2017 SPK value 1000 :S	Tes F SPK Ref Val 0 Tes SPK Ref Val SPK Ref Val	121 tCode: EF RunNo: 44 SeqNo: 19 %REC 128 123 tCode: EF RunNo: 44 SeqNo: 19 %REC 83.3	15 PA Method 8032 539813 LowLimit 77.8 15 PA Method 8111 542681 LowLimit 15 PA Method	316 8015D: Gaso Units: mg/K HighLimit 128 316 8015D: Gaso Units: %Rea HighLimit 316	g %RPD 3.74 0 line Rang %RPD	RPDLimit 20 0 e RPDLimit	S
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Surr: BFB Sample ID Sample ID	1712D88-001AMS 11135250-7-1221 12/26/2017 e Organics (GRO) MB-35757 PBS 12/28/2017 LCS-35757 LCSS	1200 5D SampType 17- Batch IE Analysis Date Result F 32 1200 SampType Batch IE Analysis Date Result F 830 SampType	e: MS p: 35 p: 12 pQL 4.9 e: ME e: ME pQL pQL e: LC p: 35	971.8 5D 701 2/27/2017 SPK value 24.63 985.2 3LK 757 2/29/2017 SPK value 1000 :S 757	Tes F SPK Ref Val 0 Tes SPK Ref Val Tes F	121 tCode: EF RunNo: 44 SeqNo: 19 %REC 128 123 tCode: EF RunNo: 44 SeqNo: 19 %REC 83.3 tCode: EF	15 PA Method 8032 539813 LowLimit 77.8 15 PA Method 8111 15 PA Method 8111	316 8015D: Gaso Units: mg/K HighLimit 128 316 8015D: Gaso Units: %Rea HighLimit 316	g %RPD 3.74 0 line Rang %RPD	RPDLimit 20 0 e RPDLimit	S
Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Surr: BFB Sample ID Client ID: Client ID:	1712D88-001AMS 11135250-7-1221 12/26/2017 e Organics (GRO) MB-35757 PBS 12/28/2017 LCS-35757 LCSS	1200 SD SampType 17- Batch II Analysis Date Result F 32 1200 SampType Batch II Analysis Date Result F 830 SampType Batch II Analysis Date	e: MS p: 35 p: 12 pQL 4.9 e: ME e: ME pQL pQL e: LC p: 35	971.8 5D 701 2/27/2017 SPK value 24.63 985.2 3LK 757 2/29/2017 SPK value 1000 :S 757 2/29/2017	Tes F SPK Ref Val 0 Tes SPK Ref Val Tes F	121 tCode: EF RunNo: 44 SeqNo: 19 %REC 128 123 tCode: EF RunNo: 44 SeqNo: 19 KCode: EF RunNo: 44 SeqNo: 19	15 PA Method 8032 539813 LowLimit 77.8 15 PA Method 8111 15 PA Method 8111	316 8015D: Gaso Units: mg/K HighLimit 128 316 8015D: Gaso Units: %Red HighLimit 316 8015D: Gaso	g %RPD 3.74 0 line Rang %RPD	RPDLimit 20 0 e RPDLimit	S

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
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- ND Not Detected at the Reporting Limit
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E Value above quantitation range

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- W Sample container temperature is out of limit as specified
- Page 4 of 4

ANAL	RONMENTAL	Hall Environmen TEL: 505-345-3 Website: www	490 Albuquerq 975 FAX:	1 Hawkins . ue, NM 871 505-345-41	NE 109	Sample Log-In Check Lis				
Client Name:	GHD	Work Order Numb	ber: 1712	D88			R	cptNo: 1		
Received By:	Erin Melendrez	12/22/2017 9:40:00	АМ		in	n£	7			
Completed By:	Sophia Campuzano	12/22/2017 1:50:53	PM		K) Stylu					
Reviewed By:	DDS	12/20			797	1.7				
Chain of Cus	tody									
1, Custody sea	Is intact on sample bottles?		Yes		No		Not Presen	1 <b>V</b>		
2. Is Chain of C	Custody complete?		Yes	$\checkmark$	No		Not Presen	t 🗆		
3. How was the	sample delivered?		Cou	<u>'ier</u>						
Log In										
4. Was an atte	mpt made to cool the sample	es?	Yes		No		N/	A 🗆		
5. Were all sam	nples received at a temperati	ure of >0° C to 6.0°C	Yes		No		NA			
6. Sample(s) in	proper container(s)?		Yes		No					
7. Sufficient sar	mple volume for indicated tes	t(s)?	Yes		No					
8. Are samples	(except VOA and ONG) prop	erly preserved?	Yes		No					
9. Was preserva	ative added to bottles?		Yes		No		NA			
10.VOA vials ha	ve zero headspace?		Yes		No		No VOA Vials			
	mple containers received bro	ken?	Yes				NO VOA VIAIS	×		
12.Does paperw	ork match bottle labels? ancies on chain of custody)		Yes		No	_	# of preserved bottles checke for pH:	I ed (<2 or >12 unless noted)		
	correctly identified on Chain	of Custody?	Yes	•	No		Adjusted			
	t analyses were requested?	na on children 1958 o			No		1	59		
	ing times able to be met? ustomer for authorization.)		Yes		No	1.23	Checked	by:		

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?	Yes 🗌 No 🗌 NA 🗹
Person Notified: By Whom:	Date:
Regarding: Client Instructions:	

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
	4.6	Good	Yes			

С	hain	-of-Cu	ustody Record	Turn-Around	Time:														
Client: GHO SERVICES, INC.			Standard  Rush				100										TAL		
			Project Name:				ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109												
Mailing Address: 601 InDIAN SUBOL PD, TODE																			
ARR	USUT	SUE N	M 8710	Project #:	111-		1			345-3						4107			
		5-884.		1135	560/7			Ter	000	040 0			_	Req		_			
			D. BOCKTHUHQ 61 AD.Can	Project Mana	ager:			(À)	6										T
QA/QC F	Package:			REDIN	AD BOO	CITSUH	021	50	¥∣		1		SO,	PCB's					
□ Stan	dard		Level 4 (Full Validation)	ulant		2010	s (8	(Ga	DRO / MRO		SIMS)		PO	PC					
Accredit		- 201		Sampler:	onart	OSall	TMB's (8021)		έl;	= =	- m		102,	/ 8082		F	2		
D NEL	202	□ Othe	er	On Ice:	Z Yes	D No	+		(GKO	04	82		03.7	s / 8		(A)	(32)		ALV - C
EDD	(Type)		1	Sample Tem	perature: 5.	1 - 0.5(cr) =	MTBE	MTBE	2	B Po	0 0	etals	N'N	cide	Ŷ	0/-!			2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	4.6 HEAL NO. 1712 D88	BTEX + MI	BTEX + MI	1PH 8015B	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHICADE		Alto Dutbella
DA IT	9:X	SOL	1135266-7-12217-881	402	JUE	-001						-	-			w I	1		Ť
DPILID	9:36	4001	11135260-7-1221/7-382	402	ILE	-002		V	/							1			T
									_	-							_		+
							$\vdash$		+	+			-		_		-		+
									+	$\uparrow$									t
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									+	-	-	_	-			-	-		+
				-					+	+									+
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			1,																
Date:	Time:	Relinguigh	man Barli	Ish and	/	Date Time	Ren	harks:											
Date:	Time:	Relinquish	ed by:	Received by:	1	Date Trace	1												
land and a																			

cessary, samples ubmitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report