

# **APPROVED**

By Olivia Yu at 11:02 am, Jun 15, 2018

June 5, 2018 Reference No. 11135250-07

Ms. Olivia Yu New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, New Mexico 88240

NMOCD grants closure to 1RP-4735.

Mr. Ryan Mann New Mexico State Land Office Remediation Specialist Field Operation Division 2827 N. Dal Paso Suite 117 Hobbs, New Mexico 88240

Dear Ms. Yu and Mr. Mann:

Re: Closure Request
2A-20 Inch (1RP-4735)
ETC Field Services LLC
Site Location: Unit J, Sec. 32, T 23-S, R 37-E
(Lat 32.25972N°, Long -103.18139W°)
Lea County, New Mexico

On behalf of ETC Field Services LLC (ETC), GHD Services, Inc. (GHD) is requesting that no further action status be granted for the 2A-20" pipeline (hereafter referred to as the "Site") release. The Site is located approximately 10.25 miles east of Jal, New Mexico (see Figure 1).

In an Assessment Report dated February 21, 2018 (attached) GHD recommended the following scope items be completed following delineation of the soil impacts in order to achieve no further action:

- The excavation (Figure 2) should be backfilled with clean fill material and wheel compacted to grade.
- Fertilizing and reseeding of the disturbed area with an appropriate seed mix. Blue Gramma 1# was used.

The work scope was approved by Ms. Yu with the NMOCD on April 2, 2018 and by Mr. Ryan Mann on April 25, 2018. As of the date of this letter, the above scope items have been completed and are documented in the attached completion photographs and final C-141 for the Site; therefore, No Further Action is being requested for the Site.





Should you have any questions, or require additional information regarding this submittal, please feel free to contact myself or Alan Brandon at (505) 884-0672 or Alan.Brandon@ghd.com.

Sincerely,

GHD

**Christine Mathews** 

Project Scientist/Coordinator

CM/ji/02

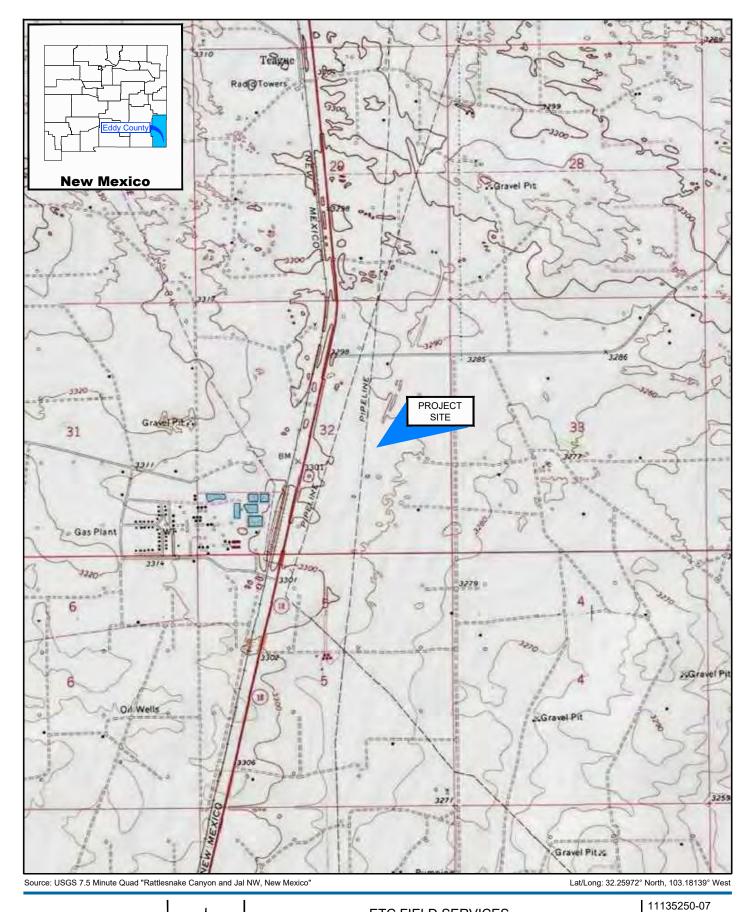
Encl.

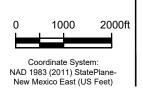
Alan Brandon

Senior Project Manager

AK Brand

**Figures** 





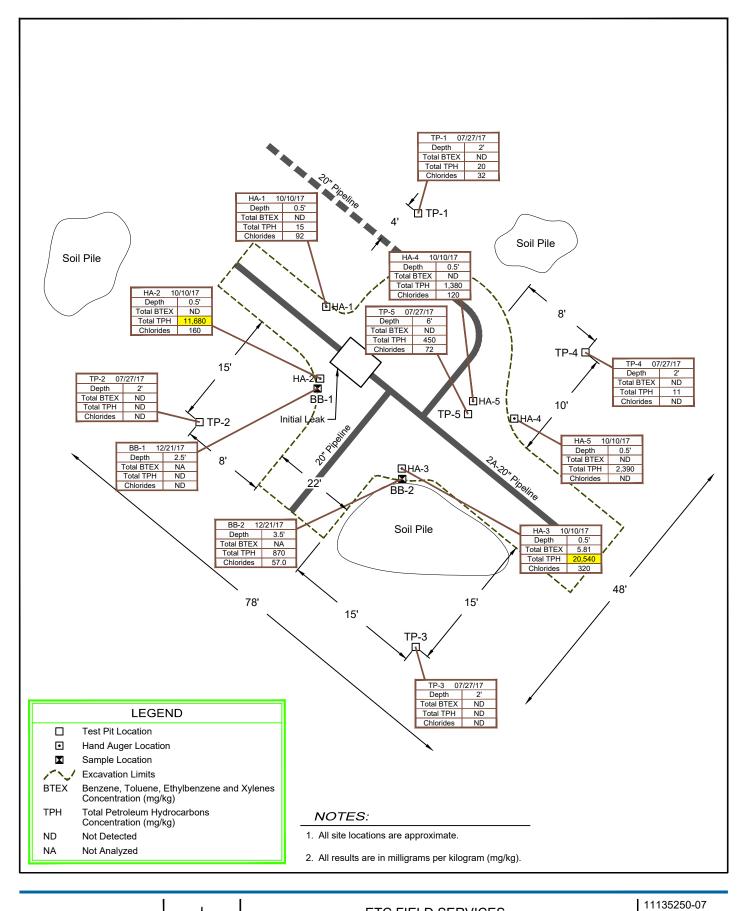




ETC FIELD SERVICES LEA COUNTY, NEW MEXICO 2A-20" Aug 23, 2017

SITE LOCATION MAP

FIGURE 1









ETC FIELD SERVICES LEA COUNTY, NEW MEXICO 2A-20" Mar 21, 2018

SOIL SAMPLE LOCATION

FIGURE 2

Attachments

# Attachment A Site Photographs



Photo 1 - Backfilled excavation



Photo 2 - Backfilled excavation



# **Site Photographs**



Photo 3 - Reseeding the backfilled excavation



Photo 3 - Hydrating the seeded area



# **Site Photographs**

# Attachment B Final Form C-141

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

### State of New Mexico **Energy Minerals and Natural Resources**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

		Rele	ease Notific	catio	n and Co	rrective A	ction				
					OPERATOR Initial Report Final Repo						
Name of Company: E				$\overline{}$	Contact: Dean Ericson .						
Address: 600 N. Mar		00, Midla	and, TX 79701			No.: 817-302-97	758 (of	fice) 432-	238-2142 (	cell)	
Facility Name: 2A-2	0				Facility Typ	e: Pipeline			<u> </u>		
Surface Owner: State	of New Mex	ico	Mineral C	)wner:	State			API No	).		
W 10					N OF REI						
Unit Letter Section 32	Township 23S	Range 37E	Feet from the 2,207.9	North/ South	South Line	Feet from the 1,500	East/V East	Vest Line	County Lea		
			Latitude 32.2			de <u>103.18139V</u>	<u>v</u>				
Type of Release: Natura	l gas/Oil		NAI	URE	OF RELI	Release: N/A bbl	e [	Voluma E	Recovered: 1	25510	
Source of Release: Pip					-	our of Occurrence			Hour of Disc		
11/ 1 11 11 11 11	G: 0				6/19/17 at 1			6/19/17 at			
Was Immediate Notice		Yes [	No 🗍 Not R	equired	If YES, To Hobbs Dist						
By Whom?					Date and H						•
Was a Watercourse Rea	ched?	Yes 🗵	No .		If YES, Volume Impacting the Watercourse. N/A						
If a Watercourse was Im	pacted, Descri	ibe Fully."								-	
Describe Cause of Problexternal corrosion cause currently shut in. Vaccu	ed an approx	2" x 8" ho	le to develop on a				his sect	ion was un	covered, cla	mpled	and is
Describe Area Affected The area affected was an Impacted soil was excav Action Limits (RRALs), received. Subsequently the efforts were completed a	proximately 2 rated in the are A soil assessing excavation	2'x28'x4' a until and ment repor was backt	All standing flu alytical results inc t was submitted t	licated the NN	hat levels of B MOCD with the	TEX, TPH and clue analytical resul	hloride the stand p	were below	site Recom to backfill th	mende e exca	d Remedial vation was
I hereby certify that the regulations all operators public health or the envi should their operations l or the environment. In a federal, state, or local la	are required to ronment. The nave failed to a addition, NMO	o report an acceptance dequately OCD accept	d/or file certain r e of a C-141 repo investigate and r	elease no ort by the emediate	otifications and NMOCD made contamination	d perform correct arked as "Final Ro on that pose a thre	tive action port of the contract of the contra	ons for relo oes not reli ound water	eases which t eve the open , surface wat	may en ator of ter, hu	ndanger Tliability man health
Signature: MAn	$n \Omega$	les	sed e	2		OIL CONS	SERV	ATION	DIVISIO	N	
Printed Name: Dean Er	cson			4	Approved by Environmental Specialist:						
Title: Sr. Environmenta	l Specialist				Approval Date	3'.	E	xpiration I	Date:		
E-mail Address: Dean.	Ericson@ene				Conditions of	Approval:			Attached		
Date: Attach Additional She	ets If Necessa		817-302-9758								

# Attachment C Remediation Summary Report



February 21, 2018 Reference No. 11135250-7

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 2-inch 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 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.

Bernard Bockisch

**New Mexico Operations Manager** 

Sincerely,

GHD

Alan Brandon

Senior Project Manager

AK Brand

AB/pd/01

Attachments: Figure 1

Figure 2

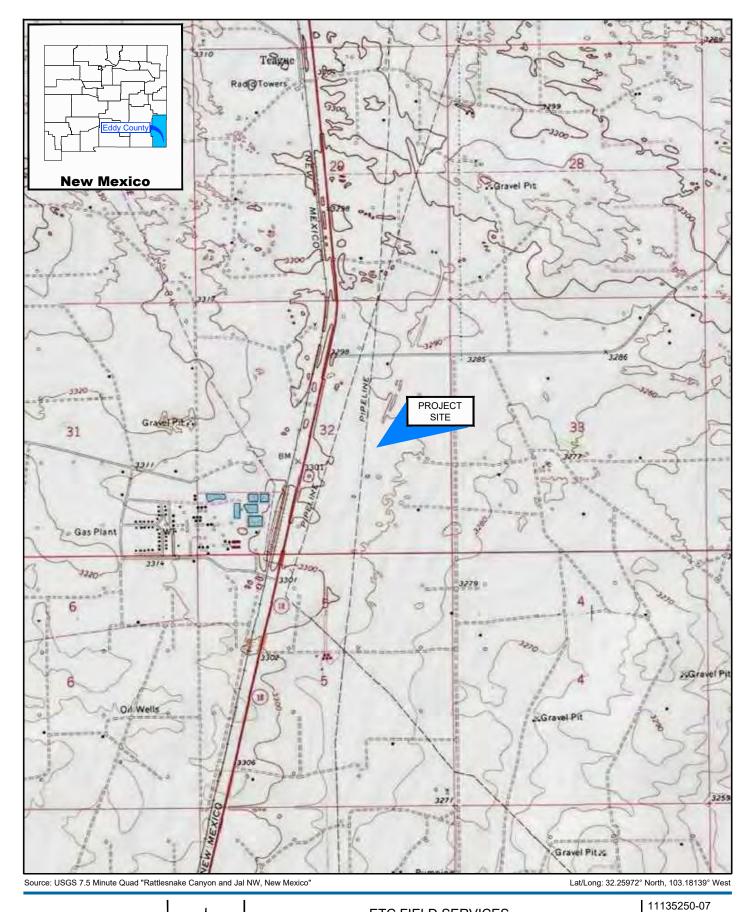
Table 1 – Soil Analytical Results Summary

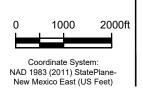
Appendix A - Water Well Reports

Appendix B – Certified Laboratory Report

4

# **Figures**





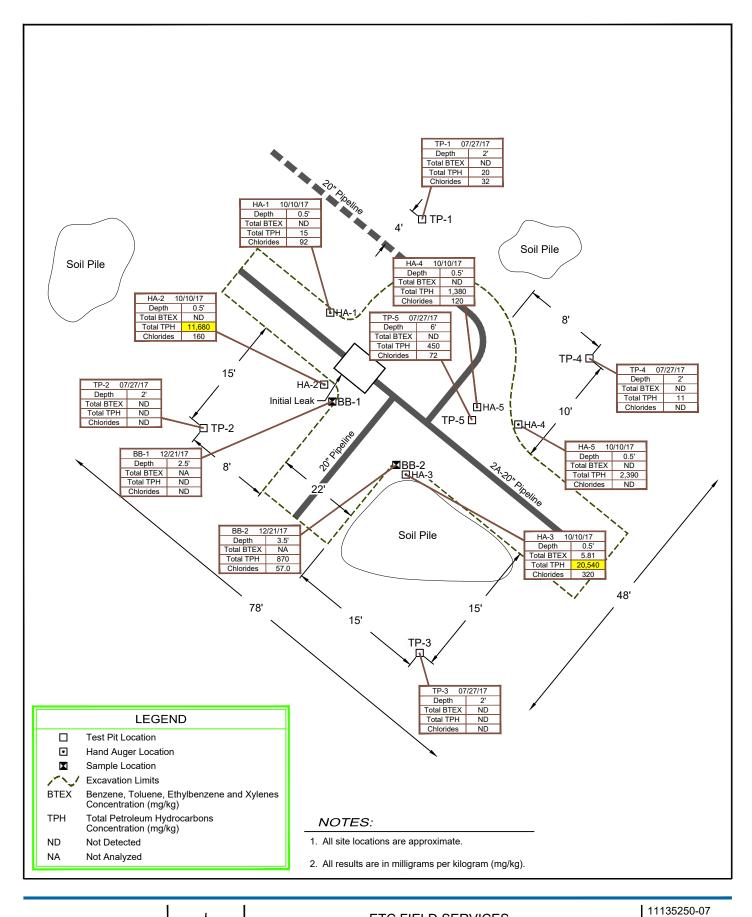




ETC FIELD SERVICES LEA COUNTY, NEW MEXICO 2A-20" Aug 23, 2017

SITE LOCATION MAP

FIGURE 1









ETC FIELD SERVICES LEA COUNTY, NEW MEXICO 2A-20"

Feb 7, 2018

SOIL SAMPLE LOCATION

FIGURE 2

# **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 Remediation	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

HSGS	Water	Resources
	AAGILGI	resonices

 Data Category:
 Geographic Area:

 Groundwater
 ✓

 United States
 ✓

Click to hideNews Bulletins

2A-20" ~2 miles 5,58

Please see news on new formats

• Full News 🔊

Groundwater levels for the Nation

Ja1 4 ~ 0.8 mile east, NE

Search Results -- 1 sites found

site\_no list =

• 321345103111001

Minimum number of levels = 1

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

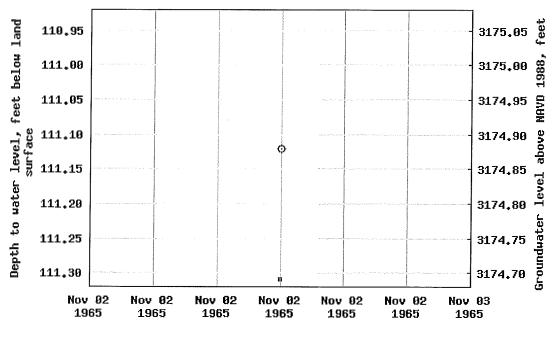
The depth of the well is 185 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aguifer.

**Output formats** 

Table of data		
Tab-separated data		
Graph of data		
Reselect period		

#### USGS 321345103111001 245.37E.08.14232



Period of approved data

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

Download a presentation-quality graph

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

News

Accessibility

Plug-Ins

**FOIA** 

Privacy

Policies and Notices

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: <u>USGS Water Data Support Team</u>

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 serves a water right file.) (R=POD has been replaced, O=orphaned, C≈the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to

(NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	Q	Q								,	Water
POD Number CP 00347 POD1	Code	basin (	County LE						Rng 37E	X 670076	<b>Y</b> 3570517*		epthWellDe		
												604	103		
<u>CP 00350 POD1</u>		CP	LE	3	2	2 3	2 2	238	37E	671458	3571309*	780	7		
CP 01431 POD10		CP	LE	3	3	4 3	2 2	238	37E	671011	3570036	842	189	103	86
CP 01431 POD9		CP	LE	2	4	3 3	2 2	238	37E	670866	3570255	861	189	111	78
<u>CP 00354 POD1</u>		CP	LE	3	1	2 3	2 2	238	37E	671056	3571302*	965	125		
<u>CP 00037 POD3</u>		CP	LE		4	3 3	2 2	238	37E	670775	3570189*	970	179	106	73
CP 00037 POD5		CP	LE		4	3 3	2 2	238	37E	670775	3570189*	970	153		
CP 00037 POD5	R	CP	LE		4	3 3	2 2	238	37E	670775	3570189*	970	153		

Average Depth to Water:

106 feet

Minimum Depth:

103 feet

Maximum Depth:

111 feet

#### **Record Count:**8

Basin/County Search:

Basin: Capitan

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 671672.49

Northing (Y): 3570558.96

Radius: 1000

#### \*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

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: www.hallenvironmental.com

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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **1707E88** 

Date Reported: 8/5/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1707E88

**Project:** 2A-20

**Lab ID:** 1707E88-001 **Collection Date:** 7/27/2017 10:40:00 AM

Client Sample ID: S1113525007-072717MGTP1-2' Matrix: SOIL

5111552555, 5727171			1.24			
Analyses	Result	PQL Qua	al Units	DF	<b>Date Analyzed</b>	Batch ID
EPA METHOD 300.0: ANIONS					Ana	ılyst: MRA
Chloride	32	30	mg/Kg	20	8/3/2017 2:38:18 P	M 33153
EPA METHOD 8015M/D: DIESEL RANGE (	ORGANICS	8			Ana	lyst: TOM
Diesel Range Organics (DRO)	20	9.8	mg/Kg	1	8/2/2017 2:07:40 P	M 33114
Motor Oil Range 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 8015D: GASOLINE RANGE					Ana	ılyst: <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 8021B: VOLATILES					Ana	ılyst: <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-Bromofluorobenzene	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.

- \* 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 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: **1707E88** 

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2017

CLIENT: GHD Lab Order: 1707E88

**Project:** 2A-20

**Lab ID:** 1707E88-002 **Collection Date:** 7/27/2017 10:50:00 AM

Client Sample ID: S1113525007-072717MGTP2-2' Matrix: SOIL

VIO 11 2-2		1714	IIIA. SO	TL .	
Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
				Ana	lyst: MRA
ND	30	mg/Kg	20	8/3/2017 3:15:32 P	M 33153
ORGANICS	8			Ana	lyst: TOM
ND	9.8	mg/Kg	1	8/2/2017 1:24:00 P	M 33114
ND	49	mg/Kg	1	8/2/2017 1:24:00 P	M 33114
70.1	70-130	%Rec	1	8/2/2017 1:24:00 P	M 33114
				Ana	lyst: NSB
ND	4.7	mg/Kg	1	8/2/2017 5:22:07 P	M 33109
89.0	54-150	%Rec	1	8/2/2017 5:22:07 P	M 33109
				Ana	lyst: <b>NSB</b>
ND	0.093	mg/Kg	1	8/2/2017 5:22:07 P	M 33109
ND	0.023	mg/Kg	1	8/2/2017 5:22:07 P	M 33109
ND	0.047	mg/Kg	1	8/2/2017 5:22:07 P	M 33109
ND	0.047	mg/Kg	1	8/2/2017 5:22:07 P	M 33109
ND	0.093	mg/Kg	1	8/2/2017 5:22:07 P	M 33109
104	66.6-132	%Rec	1	8/2/2017 5:22:07 P	M 33109
	ND ORGANICS ND ND 70.1  ND 89.0  ND ND ND ND ND ND ND ND ND	ND 30  ORGANICS  ND 9.8  ND 49  70.1 70-130   ND 4.7  89.0 54-150  ND 0.093  ND 0.023  ND 0.047  ND 0.047  ND 0.093	ND 30 mg/Kg  ORGANICS  ND 9.8 mg/Kg  ND 49 mg/Kg  70.1 70-130 %Rec  ND 4.7 mg/Kg  89.0 54-150 %Rec  ND 0.093 mg/Kg  ND 0.023 mg/Kg  ND 0.047 mg/Kg  ND 0.047 mg/Kg  ND 0.047 mg/Kg  ND 0.093 mg/Kg	ND 30 mg/Kg 20  ORGANICS  ND 9.8 mg/Kg 1  ND 49 mg/Kg 1  70.1 70-130 %Rec 1  **  ND 4.7 mg/Kg 1  89.0 54-150 %Rec 1  ND 0.093 mg/Kg 1  ND 0.023 mg/Kg 1  ND 0.047 mg/Kg 1  ND 0.047 mg/Kg 1  ND 0.047 mg/Kg 1  ND 0.093 mg/Kg 1	Ana ND 30 mg/Kg 20 8/3/2017 3:15:32 P  ORGANICS  ND 9.8 mg/Kg 1 8/2/2017 1:24:00 P  ND 49 mg/Kg 1 8/2/2017 1:24:00 P  70.1 70-130 %Rec 1 8/2/2017 1:24:00 P  Ana ND 4.7 mg/Kg 1 8/2/2017 5:22:07 P  89.0 54-150 %Rec 1 8/2/2017 5:22:07 P  Ana ND 0.093 mg/Kg 1 8/2/2017 5:22:07 P  ND 0.023 mg/Kg 1 8/2/2017 5:22:07 P  ND 0.047 mg/Kg 1 8/2/2017 5:22:07 P  ND 0.093 mg/Kg 1 8/2/2017 5:22:07 P

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

- \* 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 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: **1707E88** 

Date Reported: 8/5/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1707E88

**Project:** 2A-20

**Lab ID:** 1707E88-003 **Collection Date:** 7/27/2017 11:30:00 AM

Client Sample ID: S1113525007-072717MGTP3-2' Matrix: SOIL

Chefit bumple 1D: 51115525007 07271	711101132		1714	IIIA. DO	IL.	
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 3:52:45 PI	M 33153
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS	3			Ana	lyst: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/2/2017 1:45:20 PI	M 33114
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/2/2017 1:45:20 Pi	M 33114
Surr: DNOP	97.4	70-130	%Rec	1	8/2/2017 1:45:20 PI	M 33114
EPA METHOD 8015D: GASOLINE RANG	E				Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/2/2017 5:46:14 PI	M 33109
Surr: BFB	90.6	54-150	%Rec	1	8/2/2017 5:46:14 PI	M 33109
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	8/2/2017 5:46:14 PI	M 33109
Benzene	ND	0.024	mg/Kg	1	8/2/2017 5:46:14 PI	M 33109
Toluene	ND	0.048	mg/Kg	1	8/2/2017 5:46:14 PI	M 33109
Ethylbenzene	ND	0.048	mg/Kg	1	8/2/2017 5:46:14 PI	M 33109
Xylenes, Total	ND	0.097	mg/Kg	1	8/2/2017 5:46:14 PI	M 33109
Surr: 4-Bromofluorobenzene	109	66.6-132	%Rec	1	8/2/2017 5:46:14 PI	M 33109

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

- \* 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 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: **1707E88** 

# Hall Environmental Analysis Laboratory, Inc. Date Reported: 8/5/2017

CLIENT: GHD Lab Order: 1707E88

**Project:** 2A-20

**Lab ID:** 1707E88-004 **Collection Date:** 7/27/2017 12:10:00 PM

Client Sample ID: S1113525007-072717MGTP5-6' Matrix: SOIL

WIG11 3-0		MIA	IIIA. SO	IL.	
Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
				Ana	alyst: MRA
72	30	mg/Kg	20	8/3/2017 4:05:10 P	M 33153
ORGANICS	3			Ana	alyst: <b>TOM</b>
160	10	mg/Kg	1	8/2/2017 12:37:34	PM 33114
290	50	mg/Kg	1	8/2/2017 12:37:34	PM 33114
96.6	70-130	%Rec	1	8/2/2017 12:37:34	PM 33114
E				Ana	alyst: <b>NSB</b>
ND	4.8	mg/Kg	1	8/2/2017 6:10:18 P	M 33109
89.6	54-150	%Rec	1	8/2/2017 6:10:18 P	M 33109
				Ana	alyst: <b>NSB</b>
ND	0.097	mg/Kg	1	8/2/2017 6:10:18 P	M 33109
ND	0.024	mg/Kg	1	8/2/2017 6:10:18 P	M 33109
ND	0.048	mg/Kg	1	8/2/2017 6:10:18 P	M 33109
ND	0.048	mg/Kg	1	8/2/2017 6:10:18 P	M 33109
ND	0.097	mg/Kg	1	8/2/2017 6:10:18 P	M 33109
108	66.6-132	%Rec	1	8/2/2017 6:10:18 P	M 33109
	72 E ORGANICS 160 290 96.6 E ND 89.6 ND ND ND ND ND ND ND	72 30  FORGANICS  160 10 290 50 96.6 70-130  E  ND 4.8 89.6 54-150  ND 0.097 ND 0.024 ND 0.048 ND 0.048 ND 0.048 ND 0.097	Result         PQL         Qual         Units           72         30         mg/Kg           E ORGANICS         160         10         mg/Kg           290         50         mg/Kg           96.6         70-130         %Rec           E         ND         4.8         mg/Kg           89.6         54-150         %Rec           ND         0.097         mg/Kg           ND         0.024         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.097         mg/Kg           ND         0.097         mg/Kg	Result         PQL         Qual         Units         DF           72         30         mg/Kg         20           E ORGANICS         160         10         mg/Kg         1           290         50         mg/Kg         1           96.6         70-130         %Rec         1           E         ND         4.8         mg/Kg         1           89.6         54-150         %Rec         1           ND         0.097         mg/Kg         1           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.097         mg/Kg         1           ND         0.097         mg/Kg         1	Result         PQL         Qual         Units         DF         Date Analyzed           72         30         mg/Kg         20         8/3/2017 4:05:10 P           E ORGANICS         Analyzed           160         10         mg/Kg         1         8/2/2017 12:37:34           290         50         mg/Kg         1         8/2/2017 12:37:34           96.6         70-130         %Rec         1         8/2/2017 12:37:34           E         Analyzed           ND         4.8         mg/Kg         1         8/2/2017 6:10:18 P           89.6         54-150         %Rec         1         8/2/2017 6:10:18 P           ND         0.097         mg/Kg         1         8/2/2017 6:10:18 P           ND         0.048         mg/Kg         1         8/2/2017 6:10:18 P           ND         0.097         mg/Kg

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

- \* 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 4 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: **1707E88**Date Reported: **8/5/2017** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1707E88

**Project:** 2A-20

**Lab ID:** 1707E88-005 **Collection Date:** 7/27/2017 12:35:00 PM

Client Sample ID: S1113525007-072717MGTP4-2' Matrix: SOIL

onen sumpre is a since seed of or since			1.200			
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 PM	M 33153
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Ana	lyst: <b>TOM</b>
Diesel Range Organics (DRO)	11	10	mg/Kg	1	8/2/2017 1:23:16 PM	M 33114
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	8/2/2017 1:23:16 PM	M 33114
Surr: DNOP	97.2	70-130	%Rec	1	8/2/2017 1:23:16 PM	M 33114
EPA METHOD 8015D: GASOLINE RANG	E				Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/2/2017 6:34:24 PM	M 33109
Surr: BFB	87.7	54-150	%Rec	1	8/2/2017 6:34:24 PM	M 33109
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	8/2/2017 6:34:24 PM	M 33109
Benzene	ND	0.024	mg/Kg	1	8/2/2017 6:34:24 PM	M 33109
Toluene	ND	0.048	mg/Kg	1	8/2/2017 6:34:24 PM	M 33109
Ethylbenzene	ND	0.048	mg/Kg	1	8/2/2017 6:34:24 PM	M 33109
Xylenes, Total	ND	0.095	mg/Kg	1	8/2/2017 6:34:24 PM	M 33109
Surr: 4-Bromofluorobenzene	109	66.6-132	%Rec	1	8/2/2017 6:34:24 PM	M 33109

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

- \* 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 5 of 10
- 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.

WO#: **1707E88** 

07-Aug-17

Client: GHD Project: 2A-20

Sample ID MB-33153 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 33153 RunNo: 44718

Prep Date: **8/3/2017** Analysis Date: **8/3/2017** SeqNo: **1414230** Units: **mg/Kg** 

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-33153 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 33153 RunNo: 44718

Prep Date: 8/3/2017 Analysis Date: 8/3/2017 SeqNo: 1414231 Units: mg/Kg

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:

- \* 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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# Hall Environmental Analysis Laboratory, Inc.

WO#: 1707E88

07-Aug-17

**Client: 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:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % 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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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# Hall Environmental Analysis Laboratory, Inc.

WO#: 1707E88

07-Aug-17

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

Sample ID MB-33109 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 33109 RunNo: 44673

Prep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413152 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

1000 Surr: BFB 920 91.8 54 150

Sample ID LCS-33109 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 33109 RunNo: 44673

Analysis Date: 8/2/2017 SeqNo: 1413153 Prep Date: 8/1/2017 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 5.0 25.00 91.7 76.4 125 Surr: BFB 1000 1000 105 54 150

Sample ID 1707E88-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: S1113525007-07271 Batch ID: 33109 RunNo: 44673

Prep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413156 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 27 24.41 110 77.8 128

Surr: BFB 1000 976.6 106 54 150

SampType: MSD Sample ID 1707E88-002AMSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S1113525007-07271 Batch ID: 33109 RunNo: 44673

Analysis Date: 8/2/2017 Prep Date: 8/1/2017 SeqNo: 1413157 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 4.7 23.43 109 77.8 128 5.21 20 Λ Surr: BFB 1000 937.2 109 54 150 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% 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

Page 8 of 10

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1707E88 07-Aug-17** 

Client: GHD Project: 2A-20

Sample ID MB-33109 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 33109 RunNo: 44673 Prep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413168 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) 0.10 ND Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

 Surr: 4-Bromofluorobenzene
 1.1
 1.000
 113
 66.6
 132

Sample ID LCS-33109 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 33109 RunNo: 44673 Prep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413169 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Methyl tert-butyl ether (MTBE) 0.97 0.10 1.000 97.4 66.5 120 0.025 1.000 0 103 80 120 Benzene 1.0 Toluene 1.0 0.050 1.000 0 101 80 120 0 102 80 Ethylbenzene 1.0 0.050 1.000 120 Xylenes, Total 3.1 0.10 3.000 0 103 80 120 Surr: 4-Bromofluorobenzene 1.1 1.000 112 66.6 132

 Sample ID
 1707E88-001AMS
 SampType: MS
 TestCode: EPA Method 8021B: Volatiles

 Client ID:
 \$1113525007-07271
 Batch ID: 33109
 RunNo: 44673

Prep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413171 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Methyl tert-butyl ether (MTBE) 1.0 0.097 0.9737 104 72.5 138 0 80.9 Benzene 1.1 0.024 0.9737 0 110 132 Toluene 0.9737 0.01069 108 79.8 1.1 0.049136 Ethylbenzene 1.1 0.049 0.9737 0 111 79.4 140 3.3 0.097 0.01514 78.5 Xylenes, Total 2.921 111 142 Surr: 4-Bromofluorobenzene 0.9737 110 66.6 132 1.1

Sample ID 1707E88-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: S1113525007-07271 Batch ID: 33109 RunNo: 44673 Prep Date: 8/1/2017 Analysis Date: 8/2/2017 SeqNo: 1413172 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) 0.99 0.093 0.9346 0 106 72.5 138 2.43 20 0.023 0.9346 0 110 80.9 132 3.52 20 Benzene 1.0 0.047 0.9346 0.01069 109 79.8 3.59 20 Toluene 1.0 136 112 Ethylbenzene 1.0 0.047 0.9346 0 79.4 140 2.94 20

#### 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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## Hall Environmental Analysis Laboratory, Inc.

WO#: 1707E88

07-Aug-17

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

Sample ID 1707E88-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Batch ID: 33109 Client ID: \$1113525007-07271 RunNo: 44673

Prep Date: 8/1/2017 SeqNo: 1413172 Analysis Date: 8/2/2017 Units: mg/Kg

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

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Reporting Detection Limit

Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

### Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com Client Name: GHD Work Order Number: 1707E88 RcptNo: 1 Received By: Isaiah Ortiz 7/28/2017 10:00:00 AM Completed By: Erin Melendrez 7/30/2017 2:48:48 PM Reviewed By: Chain of Custody Yes 🗍 No 🗌 Not Present V 1. Custody seals intact on sample bottles? Yes 🗹 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log In Yes 🗸 No 🗌 NA 🗌 4. Was an attempt made to cool the samples? NA 🔲 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 No 🗀 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 🔽 NA 🗌 9. Was preservative added to bottles? No 🗌 No VOA Vials Yes 🗌 10. VOA vials have zero headspace? Yes 🗌 No 🗸 11. Were any sample containers received broken? # of preserved bottles checked 12. Does paperwork match bottle labels? Yes 🗹 No 🗔 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? No 🗌 Yes 🗸 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🗸 14. Is it clear what analyses were requested? No 🗌 Yes 🗸 Checked by: 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 🗀 NA 🗸 Person Notified: Date By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Regarding: Client Instructions: 17. Additional remarks:

1 5.0

18. Cooler Information

Cooler No | Temp °C | Condition | Seal Intact | Seal No |

Good

Not Present

Client: CHI) Secvices Inc.  Mailing Address: CLATTALIAN Short PASS 200  Mailing Address: CLATTALIAN Short PASS 200  MA About over over MM 87110  Project 8:  Thomat # SoS 254 6672  Project 8:  Standard  ANALYSIS LABORATOR  4901 Hawkins NE - Albuquerque, NM 87109  Tel. 505-345-3975  Fax 505-345-4107  Analysis Request  Project 8:  Thomat # SoS 254 6672  Project 8:  Standard  ANALYSIS LABORATOR  4901 Hawkins NE - Albuquerque, NM 87109  Tel. 505-345-3975  Fax 505-345-4107  Analysis Request  Project 8:  Tel. 505-345-3975  Fax 505-345-4107  Analysis Request  Analysis Request  Analysis Request  Fax 505-345-4107  Analysis Request  Analysis Request  Analysis Request  Fax 505-345-3975  Fax 505-345-34107  Analysis Request  Analysis Re				ustody Record	Turn-Around	lime:									<i>.</i>					
Mailing Address 6 21 Timbian Shank MSt200	Client:	GHD	Sec	vices, Inc-			<u> </u>				AN	IAL	_Y:	SIS	S L	_AE	ВО			
Tel. 505-345-3975   Fax 505-345-4107     Phone # SO5 8 & 4 C 6 72     Project #: 1135-25 0 - 07     Phone # SO5 8 & 4 C 6 72     Project Manager     Capacidation   Devel 4 (Full Validation)     Received by   Project Manager     Sampler   Date   Time   Matrix     Sample Request ID   Container     Type   Type   Type     Tel. 505-345-3975   Fax 505-345-4107     Tel. 505-345-345-3975   Fax 505-345-4107     Tel. 505-345-3975   Fax 505-345-4107     Tel. 505-345-345-3975   Fax 505-345-4107     Tel. 505-345-345-3975   Fax 505-345-4107     Tel. 505-345-345-3975   Fax 505-345-345-3975     Tel. 505-345-345-3975   Fax 505-345-345-345     Tel. 505-345-345-345   Tel. 505-345-345     Tel. 505-345-345-345   Tel. 505-345-345     Tel. 505-345-345-345   Tel. 505-345     Tel. 505-345-345-345   Tel. 505-345     Tel. 505-345	Mailing	Address	<u> </u>	Indian School Rd Steroo	2 A-	28			400	.1 ∐⊙								100		
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If necessary sample 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.	20/14	1900	Sp	1	I.O.		28/17 10:00				<del></del>								····	



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

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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1710678

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/18/2017

CLIENT: GHD Lab Order: 1710678

**Project:** 2A 20

**Lab ID:** 1710678-001 **Collection Date:** 10/10/2017 11:30:00 AM

Client Sample ID: S-11135250-07-101017-MG-HA-1 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	<b>Date Analyzed</b>	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	92	30	mg/Kg	20	10/13/2017 2:44:0	1 PM 34404
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Ana	alyst: <b>TOM</b>
Diesel Range Organics (DRO)	15	10	mg/Kg	1	10/16/2017 6:43:0	3 PM 34401
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/16/2017 6:43:0	3 PM 34401
Surr: DNOP	80.8	70-130	%Rec	1	10/16/2017 6:43:0	3 PM 34401
EPA METHOD 8015D: GASOLINE RANG	3E				Ana	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/13/2017 5:53:2	4 PM 34383
Surr: BFB	94.3	54-150	%Rec	1	10/13/2017 5:53:2	4 PM 34383
EPA METHOD 8021B: VOLATILES					Ana	alyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/13/2017 5:53:2	4 PM 34383
Toluene	ND	0.049	mg/Kg	1	10/13/2017 5:53:2	4 PM 34383
Ethylbenzene	ND	0.049	mg/Kg	1	10/13/2017 5:53:2	4 PM 34383
Xylenes, Total	ND	0.097	mg/Kg	1	10/13/2017 5:53:2	4 PM 34383
Surr: 4-Bromofluorobenzene	98.9	66.6-132	%Rec	1	10/13/2017 5:53:2	4 PM 34383

**Lab ID:** 1710678-002 **Collection Date:** 10/10/2017 11:32:00 AM

Client Sample ID: S-11135250-07-101017-MG-HA-2 Matrix: SOIL

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Ana	alyst: MRA
Chloride	160	30		mg/Kg	20	10/13/2017 3:21:15	5 PM 34404
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Ana	alyst: <b>TOM</b>
Diesel Range Organics (DRO)	8400	97		mg/Kg	10	10/16/2017 2:59:55	5 PM 34401
Motor Oil Range Organics (MRO)	3200	490		mg/Kg	10	10/16/2017 2:59:55	5 PM 34401
Surr: DNOP	0	70-130	S	%Rec	10	10/16/2017 2:59:55	5 PM 34401
EPA METHOD 8015D: GASOLINE RANG	E					Ana	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	80	4.6		mg/Kg	1	10/13/2017 6:16:46	6 PM 34383
Surr: BFB	664	54-150	S	%Rec	1	10/13/2017 6:16:46	6 PM 34383
EPA METHOD 8021B: VOLATILES						Ana	alyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	10/13/2017 6:16:46	6 PM 34383
Toluene	ND	0.046		mg/Kg	1	10/13/2017 6:16:46	6 PM 34383
Ethylbenzene	ND	0.046		mg/Kg	1	10/13/2017 6:16:46	6 PM 34383
Xylenes, Total	ND	0.093		mg/Kg	1	10/13/2017 6:16:46	6 PM 34383
Surr: 4-Bromofluorobenzene	131	66.6-132		%Rec	1	10/13/2017 6:16:46	6 PM 34383

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

<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	
Qualificis.		value exceeds iviaximum 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

Lab Order: 1710678

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/18/2017

CLIENT: GHD Lab Order: 1710678

**Project:** 2A 20

**Lab ID:** 1710678-003 **Collection Date:** 10/10/2017 11:35:00 AM

Client Sample ID: S-11135250-07-101017-MG-HA-3 Matrix: SOIL

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Ana	alyst: MRA
Chloride	320	30		mg/Kg	20	10/13/2017 3:33:4	0 PM 34404
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	S				Ana	alyst: <b>TOM</b>
Diesel Range Organics (DRO)	13000	960		mg/Kg	100	10/16/2017 11:18:	55 AM 34401
Motor Oil Range Organics (MRO)	7400	4800		mg/Kg	100	10/16/2017 11:18:	55 AM 34401
Surr: DNOP	0	70-130	S	%Rec	100	10/16/2017 11:18:	55 AM 34401
EPA METHOD 8015D: GASOLINE RAI	NGE					Ana	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	140	9.9		mg/Kg	2	10/13/2017 7:03:3	7 PM 34383
Surr: BFB	389	54-150	S	%Rec	2	10/13/2017 7:03:3	7 PM 34383
EPA METHOD 8021B: VOLATILES						Ana	alyst: <b>NSB</b>
Benzene	ND	0.050		mg/Kg	2	10/13/2017 7:03:3	7 PM 34383
Toluene	0.11	0.099		mg/Kg	2	10/13/2017 7:03:3	7 PM 34383
Ethylbenzene	0.90	0.099		mg/Kg	2	10/13/2017 7:03:3	7 PM 34383
Xylenes, Total	4.8	0.20		mg/Kg	2	10/13/2017 7:03:3	7 PM 34383
Surr: 4-Bromofluorobenzene	123	66.6-132		%Rec	2	10/13/2017 7:03:3	7 PM 34383

**Lab ID:** 1710678-004 **Collection Date:** 10/10/2017 11:40:00 AM

Client Sample ID: S-11135250-07-101017-MG-HA-4 Matrix: SOIL

Analyses	Result	al Units	DF	Date Analyzed	Batch ID	
EPA METHOD 300.0: ANIONS					An	alyst: MRA
Chloride	120	30	mg/Kg	20	10/13/2017 3:46:0	4 PM 34404
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	3			An	alyst: <b>TOM</b>
Diesel Range Organics (DRO)	790	9.7	mg/Kg	1	10/16/2017 7:11:0	8 PM 34401
Motor Oil Range Organics (MRO)	590	48	mg/Kg	1	10/16/2017 7:11:0	8 PM 34401
Surr: DNOP	108	70-130	%Rec	1	10/16/2017 7:11:0	8 PM 34401
EPA METHOD 8015D: GASOLINE RAN	GE				An	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/13/2017 7:50:2	9 PM 34383
Surr: BFB	88.7	54-150	%Rec	1	10/13/2017 7:50:2	9 PM 34383
EPA METHOD 8021B: VOLATILES					An	alyst: <b>NSB</b>
Benzene	ND	0.024	mg/Kg	1	10/13/2017 7:50:2	9 PM 34383
Toluene	ND	0.048	mg/Kg	1	10/13/2017 7:50:2	9 PM 34383
Ethylbenzene	ND	0.048	mg/Kg	1	10/13/2017 7:50:2	9 PM 34383
Xylenes, Total	ND	0.097	mg/Kg	1	10/13/2017 7:50:2	9 PM 34383
Surr: 4-Bromofluorobenzene	95.5	66.6-132	%Rec	1	10/13/2017 7:50:2	9 PM 34383

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

Unanners: " value exceeds Maximum Contaminant Level	<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
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- 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 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

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1710678

**Project:** 2A 20

**Lab ID:** 1710678-005 **Collection Date:** 10/10/2017 11:45:00 AM

Client Sample ID: S-11135250-07-101017-MG-HA-5 Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	ND	30	mg/Kg	20	10/13/2017 3:58:28	34404 B PM
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Ana	alyst: <b>TOM</b>
Diesel Range Organics (DRO)	1400	92	mg/Kg	10	10/17/2017 1:09:35	5 PM 34401
Motor Oil Range Organics (MRO)	990	460	mg/Kg	10	10/17/2017 1:09:35	5 PM 34401
Surr: DNOP	0	70-130	S %Rec	10	10/17/2017 1:09:35	5 PM 34401
EPA METHOD 8015D: GASOLINE RANG	SE .				Ana	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/13/2017 8:13:56	6 PM 34383
Surr: BFB	93.0	54-150	%Rec	1	10/13/2017 8:13:56	PM 34383
EPA METHOD 8021B: VOLATILES					Ana	alyst: <b>NSB</b>
Benzene	ND	0.024	mg/Kg	1	10/13/2017 8:13:56	6 PM 34383
Toluene	ND	0.048	mg/Kg	1	10/13/2017 8:13:56	6 PM 34383
Ethylbenzene	ND	0.048	mg/Kg	1	10/13/2017 8:13:56	6 PM 34383
Xylenes, Total	ND	0.097	mg/Kg	1	10/13/2017 8:13:56	6 PM 34383
Surr: 4-Bromofluorobenzene	96.4	66.6-132	%Rec	1	10/13/2017 8:13:56	6 PM 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 3 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.

WO#: 1710678

18-Oct-17

**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: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-34404 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 34404 RunNo: 46328

Prep Date: 10/13/2017 Analysis Date: 10/13/2017 SeqNo: 1476893 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

Chloride 14 1.5 15.00 0 94.8 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 4 of 7

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1710678** 

18-Oct-17

Client: GHD Project: 2A 20

Sample ID LCS-34401 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics LCSS Client ID: Batch ID: 34401 RunNo: 46361 Prep Date: 10/13/2017 Analysis Date: 10/16/2017 SeqNo: 1476752 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 46 50.00 0 92.3 73.2 114 Surr: DNOP 5.000 92.8 4.6 70 130

Sample ID MB-34401 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 34401 Client ID: PBS RunNo: 46361 Prep Date: 10/13/2017 Analysis Date: 10/16/2017 SeqNo: 1476753 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 8.9 10.00 89.0 70 130

#### 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

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1710678** 

18-Oct-17

Client: GHD Project: 2A 20

Sample ID MB-34383 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 34383 RunNo: 46333

Prep Date: 10/12/2017 Analysis Date: 10/13/2017 SeqNo: 1476152 Units: mg/Kg

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 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 34383 RunNo: 46333

Prep Date: 10/12/2017 Analysis Date: 10/13/2017 SeqNo: 1476153 Units: mg/Kg

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:

- \* 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

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1710678** 

18-Oct-17

Client: GHD Project: 2A 20

Sample ID MB-34383 SampType: MBLK TestCode: EPA Method 8021B: Volatiles **PBS** Client ID: Batch ID: 34383 RunNo: 46333 Prep Date: 10/12/2017 Analysis Date: 10/13/2017 SeqNo: 1476175 Units: mg/Kg 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	Type: <b>LC</b>	s	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	ent ID: LCSS Batch ID: 34383 RunNo: 46333													
Prep Date: 10/12/2017	Analysis [	Date: 10	0/13/2017	3/2017 SeqNo: 1476176 Units: mg/Kg										
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



tiail Environmental Analysis Laboratory 4991 Hawkins N.E. Albuquerqus N.M 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website, www.hallenvironmental.com

# Albuquerque NM 87109 Sample Log-In Check List

Client Name: GHD	Work Order Number: 1710678		RoptNo. 1
Received By: Isalah Ortiz	10/12/2017 9:15:00 AM	Id	-
Completed By Sophia Campuzano	10/12/2017 10:05:00 AM		
Reviewed By DD5 (0/1	2/17		
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 🗆	na 🗆
5. Were all samples received at a temperature	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(s	s)? Yes ✓	No 🗆	
8. Are samples (except VOA and ONG) proper	ly 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 broke	en? Yes	No 🗸	# of preserved
		(F)	bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No 🗔	for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of	Custody? Yes ✓	No 🗆	Adjusted?
14. Is it clear what analyses were requested?	Yes 🗸		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No 🗔	Checked by:
Special Handling (if applicable)			
16. Was client notified of all discrepancies with t	this order? Yes	No 🗆	NA 🗹
Person Notified:	Date:	-	
By Whom:	Via: eMail	Phone Fax	In Person
Regarding:			
Client Instructions:			
17. Additional remarks:			
19 Canta Information			
18. Cooler Information  Cooler No Temp C Condition Se	eal Intact   Seel No.   Seel Date	Signed By	Í
1 0.3 Good Yes			1

Mailing NE A Phone	A/QC Package:			Standard Rush Project Name:  Inhan School Rd St200 2A-20  ENM 87110 Project #:  11135250-07  sd. Backisch Oahd-com Project Manager:						HALL ENVIRONMENTAL ANALYSIS LABORATOR  www.hallenvironmental.com  4901 Hawkins NE - Albuquerque, NM 87109  Tel. 505-345-3975 Fax 505-345-4107  Analysis Request												
QA/QC Stan Accred	Package: dard itation		☐ Level 4 (Full Validation)		sd Boch	risch	(8021)	+ TPH (Gas only)	/ DRO / MRO)		1)	(SIMS)		102,PO4,SO4	8082 PCB's			200				
□ NEL		□ Othe	er	On loe:	E¥es	□ No			88	418	504	r 8270	122	O <sub>3</sub> ,N	8/8		(AC			N TO		
Date	(Type)	Matrix	Sample Request ID	Sample Tem Container Type and #	Preservative Type	0.3 HEAL No.	BTEX +	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418,1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	Chloride		Air Bubbles (Y or N)		
10/10/17	1130	5	5-11135250-07-101017-M6-HA-1	402 Sal Sa	ICE	-001	X		X								1	X	T			
10/10/17	1132	5	5-11/35250-07-10/017-46-14-2			-002	X		×							-		X				
10/10/17	1135	S	5-11135250-07-101012-M6-HA-3			-003	X		X								= 0	X				
10/10/17			5-11(35250-07-101017-MG-HA-4			-004	X		X								==	X				
10/10/17	1145	S	5-11135250-07-101017-M6-HA-5		(	-005	X		×									X				
Date: / 6/11/17 Date: 0/1/11	Time: 1530 Time:	Relinquish Relinquish	fax	Received by:	1	Date Time	Rem	arks	2		1											



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

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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **1712D88** 

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/11/2018

CLIENT: GHD Lab Order: 1712D88

**Project:** 2A 20

**Lab ID:** 1712D88-001 **Collection Date:** 12/21/2017 9:26:00 AM

Client Sample ID: 11135250-7-122117-BB1 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	ND	30	mg/Kg	20	1/9/2018 2:21:23 F	PM 35887
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	}			Ana	alyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/29/2017 1:57:5	5 PM 35722
Motor Oil Range Organics (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 8015D: GASOLINE RAN	IGE				Ana	alyst: <b>NSB</b>
Gasoline Range Organics (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 Date:** 12/21/2017 9:30:00 AM

Client Sample ID: 11135250-7-122117-BB2 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS				Ana	alyst: MRA	
Chloride	57	30	mg/Kg	20	1/9/2018 2:33:48 P	PM 35887
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS		3			Ana	alyst: <b>TOM</b>
Diesel Range Organics (DRO)	470	9.8	mg/Kg	1	12/29/2017 2:22:21	1 PM 35722
Motor Oil Range Organics (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 8015D: GASOLINE RANGE					Ana	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/27/2017 2:58:40	PM 35701
Surr: BFB	141	15-316	%Rec	1	12/27/2017 2:58:40	PM 35701

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 4
- 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.

WO#: **1712D88** 

11-Jan-18

Client: GHD 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:

- \* 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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## Hall Environmental Analysis Laboratory, Inc.

WO#: **1712D88** 

11-Jan-18

Client: GHD Project: 2A 20

Sample ID LCS-35722 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics LCSS Client ID: Batch ID: 35722 RunNo: 48059 Prep Date: 12/27/2017 Analysis Date: 12/28/2017 SeqNo: 1540466 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 45 50.00 0 90.4 73.2 114 Surr: DNOP 5.000 90.1 4.5 70 130

Sample ID MB-35722 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 35722 Client ID: PBS RunNo: 48059 Prep Date: Analysis Date: 12/28/2017 SeqNo: 1540467 12/27/2017 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 9.9 10.00 99.4 70 130

#### 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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**GHD** 

**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1712D88

11-Jan-18

Project:	2A 20																
Sample ID	MB-35701	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range															
Client ID:	PBS	Batch	ID: 35	701	F	RunNo: 4	8032										
Prep Date:	12/26/2017	Analysis D	ate: 1	te: <b>12/27/2017</b> SeqNo: <b>1539809</b>					Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Gasoline Ranç Surr: BFB	ge Organics (GRO)	ND 1100	ND 5.0														
Sample ID	LCS-35701	CS-35701 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range															
Client ID:	LCSS	Batch	ID: 35	701	F	RunNo: 4	8032										
Prep Date:	12/26/2017	Analysis D	ate: 1	2/27/2017	5	SeqNo: 1	539810	Units: mg/k	<b>(</b> g								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
	ge Organics (GRO)	27	5.0	25.00	0	109	75.9	131									
Surr: BFB		1200		1000		124	15	316									
Sample ID	Sample ID 1712D88-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range																
Client ID:	RunNo: 48032																
Prep Date:	12/26/2017	Analysis D	ate: 1:	2/27/2017	\$	SeqNo: 1	539812	Units: mg/Kg									
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
_	ge Organics (GRO)	30	4.9	24.30	0	125	77.8	128									
Surr: BFB		1200		971.8		121	15	316									
Sample ID	1712D88-001AN	ISD SampT	ype: <b>M</b> \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е							
Client ID:	11135250-7-122	<b>117-</b> Batch	ID: <b>35</b>	701	F	RunNo: 4	8032										
Prep Date:	12/26/2017	Analysis D	ate: 1	2/27/2017	9	SeqNo: 1	539813	Units: mg/h	<b>(</b> g								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
_	ge Organics (GRO)	32	4.9	24.63	0	128	77.8	128	3.74	20	S						
Surr: BFB		1200		985.2		123	15	316	0	0							
Sample ID	MB-35757	SampT	ype: <b>M</b> I	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е							
Client ID:	PBS	Batch	ID: 35	757	F	RunNo: 48111											
Prep Date:	12/28/2017	Analysis D	Analysis Date: 12/29/2017 SeqNo: 1542681 Units: %Rec														
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Surr: BFB		830		1000		83.3	15	316									
Sample ID	Sample ID LCS-35757 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range																
Client ID:			Batch ID: <b>35757</b> RunNo: <b>48111</b>														
Prep Date:	12/28/2017	Analysis D	ate: <b>1</b> :	2/29/2017	5	SeqNo: 1	542682	Units: %Re	С								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Surr: BFB		950		1000		94.6	15	316									

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% 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

Page 4 of 4

Sample pH Not In Range P

RLReporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkim NE, Albuquerque, NM 87109

TEL 503-345-3975 FAX: 505-345-4107 Website www.hallenvironmental.com

## Sample Log-In Check List

Client Name: GHD Work Order Number: 1712D88 ReptNo. 1 Received By: Erin Melendrez 12/22/2017 9:40:00 AM Completed By: Sophia Campuzano 12/22/2017 1:50:53 PM 12/26/17 DD Reviewed By: Chain of Custody 1 Custody seals intact on sample bottles? Yes Not Present V 2. Is Chain of Custody complete? Yes V Not Present 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes V No 🗌 NA Were all samples received at a temperature of >0° € to 6.0°€ Yes V No L NA Sample(s) in proper container(s)? Yes V No 🗌 7. Sufficient sample volume for indicated test(s)? No [ 8. Are samples (except VOA and ONG) properly preserved? Yes V No L 9 Was preservative added to bottles? Yes \_ No V NA 🗌 10.VOA vials have zero headspace? Yes No 🗌 No VOA Vials 11. Were any sample containers received broken? Yes -No V # of preserved bottles checked 12. Does paperwork match bottle labels? Yes No 🗔 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 13. Are matrices correctly identified on Chain of Custody? Adjusted? No D 14. Is it clear what analyses were requested? V No T 15. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes | No L NA V Person Notified Date: By Wnom eMail Phone Fax In Person Via: Regarding: Client Instructions: 17 Additional remarks 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date 4.6 Good Yes

Client: GHO SERVICES INC.				Turn-Around Time;  Standard Rush  Project Name:  A - > 6  Www.hallenvironmental.com  4901 Hawkins NE - Albuquerque, NM 87								30 om	RAT					
ARB	KUEZ		M 8710	Droinct #	5017					wkins -345-	3975		ax		345	4107		
	Package: dard tation		□ Level 4 (Full Validation)	BEQUA Sampler: 2	as Boll	Bull	TMB's (8021)	TPH (Gas only)	(GRO/DRO/MRO)	3)	270 SIMS)		Anions (F,CI,NO3,NO2,PO4,SO4)	/8082 PCB's			300)	T. C. W.
□ EDD	2.	□ Othe	ar	On Ice: Sample Tem	∠Z Yes perature:5.	1-0-5(cf)=	in l	+	(GRC	d 504	1 or 82	tals	NO3,	/ sep	~	VOA)	V	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	4.6	BTEX + MTBE	BTEX + MTBE	TPH 8015B	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,C	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHARICE	No. Contablish
DX/17	9:26	SOIL	11/35366-7-123177-881	402	IKE	-001		4	7	1				-				
DISI/17	9:36	GOTE	11135260-7-1221/71-1862	402	I/E	-002		V									V	
Date:	Time:	Relinguish	ed by: man Barl	Received by:		Date Time	Rem	narks:										
Date: 4/17	1900)	Relinquish	ed by	Received by	<u> </u>	Date 0940												