

APPROVED By Olivia Yu at 3:37 pm, Jul 25, 2018

NMOCD approves of the proposed remediation for 1RP-4583. See email correspondence for conditions.

June 4, 2018 Reference No. 11135250-1

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

Dear Mr. Ericson:

Re: Updated Remediation Summary Report 2C-14-3 Ten Inch (1 RP-4583) ETC Field Services LLC Site Location: Sec. 24, T 25-S, R 37-E (Lat 32.11776N°, Long -103.11039W°) Lea County, New Mexico

GHD Services, Inc. (GHD) is pleased to present this report for the above referenced site. The 2C-14-3 Ten Inch (hereafter referred to as the "Site") is located within Section 35, Township 21 South, Range 37 East, in Lea County, New Mexico (see Figure 1). The property is privately owned.

On January 18, 2017, a release of approximately 39 barrels (bbls) of natural gas/oil was reported to the State of New Mexico Oil Conservation Division (NMOCD) via Form C-141. A leaking 10-inch pipe was the cause of the release. Approximately 35 bbls were recovered utilizing a vacuum truck. Contaminated soils were excavated and stockpiled on site (see Figure 2). NMOCD release number 1RP 4583 was assigned.

GHD submitted a Remediation Summary Report dated October 12, 2017 to NMOCD that described assessment activities performed at the Site. The following summary and recommendations were made in the report.

Chloride impacted soils above the RRAL at the Site were encountered at a depth of 4 ft. bgs in FS-7 and at a depth of 4.5 ft. bgs within the excavation (Sample Nos. 6, 9, 15, 21, and 24). Chloride impacted soils exceeding the RRAL were also encountered on the surface in four areas (Sample Nos. 44, 46, 47, and 50). Based on the assessment of the chloride concentrations, GHD recommended the following:

- Excavating the remaining petroleum hydrocarbon contaminated soil within the excavation. Scrape the
 areas where contamination was found at the surface and excavate the area around FS-7 to a depth of
 4 ft. bgs.
- Placement of a 20-mil polyethylene liner in the bottom of the excavation at a depth of 4 ft. bgs.
- Backfilling of the excavation with clean fill material and wheel compacting to grade, once approval of delineation has been confirmed.
- Fertilizing and reseeding of the disturbed area with a seed mix that is approved by the land owner.





In an email dated December 22, 2017 Ms. Olivia Yu with NMOCD indicated that the delineation was complete and authorized the proposed remediation.

1. Recommended Remediation Action Limits

Based on information available from the United States Geologic Survey National Water Information System, the depth to groundwater at the Site is approximately 70 ft. below ground surface (bgs). This is based on a water well that is located approximately 0.5 mile northwest of the Site (see Appendix A, Water Well Report for depth to water). Additionally, there are no well head protection areas or surface water bodies within 1000 feet of the Site (see Figure 1). Therefore, the preliminary total ranking score is 10 (see table below).

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), 1,000 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 (50-99 ft. bgs)	10
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	10*
*Because the ranking criteria total score is 20, NMOCD established RRALs are 10 mg/kg 50 mg/kg for total BTEX, 1,000 mg/kg for total TPH and 600 ppm for chlorides ¹ 1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993 and recent discussions with Mr. Jim Griswold with the NMC	

2. Remediation Activities

Excavation of impacted soils was performed from February 13, 2018 through February 15, 2018 (see Figure 2 for excavation limits). Soil samples were collected from the sidewalls and base of the excavation and submitted to Hall Environmental Analysis Laboratory (HEAL) located in Albuquerque, New Mexico. Soils in the areas of surface samples 44, 46, 47, 50, and 53 were excavated to an approximate depth of 1.5 to 6 feet bgs and samples were collected for laboratory analysis. The samples were analyzed for TPH analysis by EPA Method 8015 and for chloride analysis by EPA Method 300.

Total TPH ranged from below the laboratory reporting limits (LRL) to 288 mg/kg and chloride concentrations ranged from 120 mg/kg to 2,000 mg/kg. Three samples exceeding the chloride RRAL were collected from the west side of the excavation near the north end (SP-3, TP-28, and TP-29). The excavation could not be extended farther west due to the presence of a Chevron flow line. Lab reports are summarized in Appendix B.

11135250Ericson-3 2



3. Recommendations

The assessment of the horizontal and vertical extent of impacted soils has been performed. In addition, the excavation of impacted soils has been completed. GHD recommends the following activities.

- Placement of a 20-mil polyethylene liner in the bottom of the excavation at a depth of 4 ft. bgs.
- Backfilling of the excavation with clean fill material and wheel compacting to grade, once approval of delineation has been confirmed.
- Fertilizing and reseeding of the disturbed area with a seed mix that is approved by the land owner.

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 us at 505-884-0672.

Sincerely,

GHD

Alan Brandon
Senior Project Manager

AK Brand

AB/ji/3

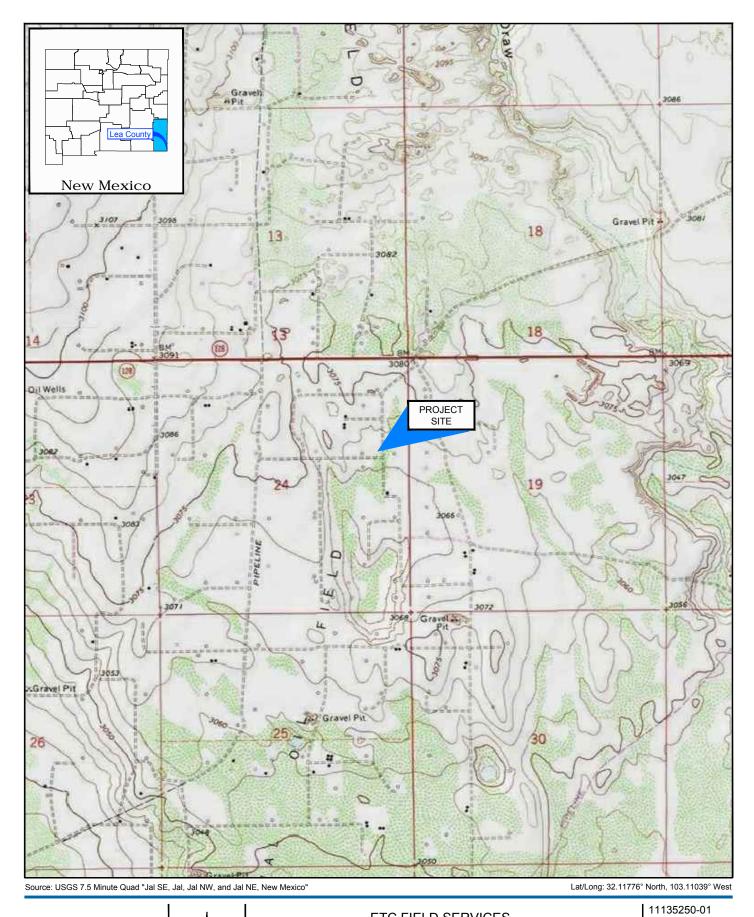
Encl.

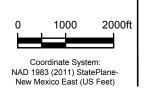
Bernard Bockisch

New Mexico Operations Manager

11135250Ericson-3

Figures





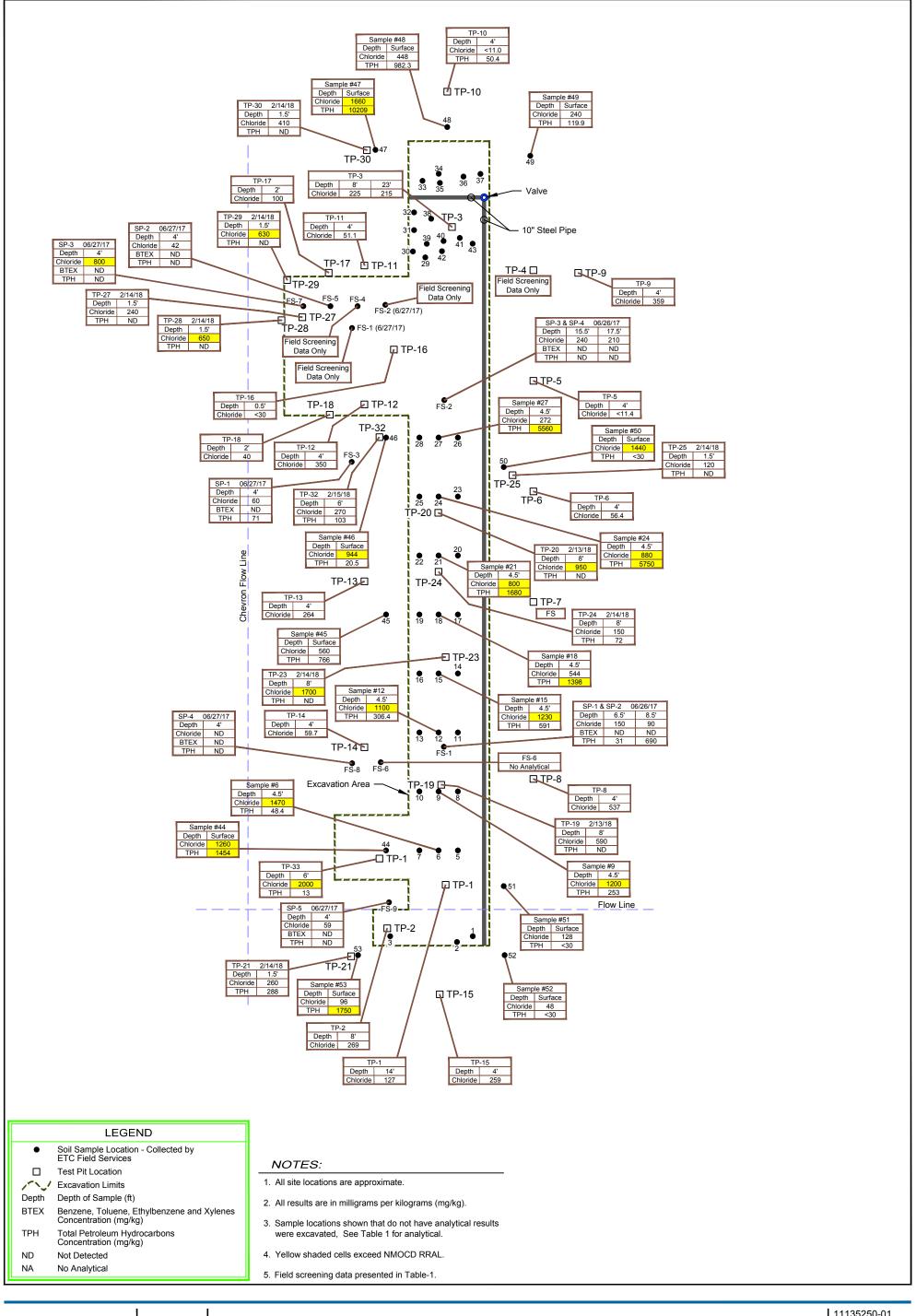


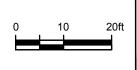


ETC FIELD SERVICES LEA COUNTY, NEW MEXICO 2C-14-3 10" Apr 5, 2017

SITE LOCATION MAP

FIGURE 1









ETC FIELD SERVICES LEA COUNTY, NEW MEXICO 2C-14-3 10"

SOIL SAMPLE LOCATION

11135250-01 May 24, 2018 Appendices

Appendix A Water Well Report



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 Number	Code	POD Sub- basin		U.75	Q	100		Tws	Rng	x	Y	DistanceDe	pthWellDep		Water Column
CP 00260 POD1		CP	LE	2	2	4	24	258	37E	678390	3554728*	366	135	68	67
CP 00261 POD1	R	CP	LE	2	2	4	24	258	37E	678390	3554728*	366		68	
CP 00258 POD1		CP	LE	3	3	4	13	25S	37E	677767	3555728*	815	120	73	47
CP 00363 POD1		CP	LE	3	4	1	24	258	37E	677379	3554917*	865		901	
CP 00783 POD1		CP	LE	1	2	1	24	258	37E	677372	3555519*	976	4500	728	3772
CP 00261 POD2		CP	LE	1	3	4	13	258	37E	677767	3555928*	985	95	50	45

Average Depth to Water:

314 feet

Minimum Depth:

50 feet

Maximum Depth:

901 feet

Record Count:6

UTMNAD83 Radius Search (in meters):

Easting (X): 678233 Northing (Y): 3555059.23 Radius: 1000

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, usability, or suitability for any particular purpose of the data.

9/27/17 9:34 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

^{*}UTM location was derived from PLSS - see Help

2C-14-3 Page 1 of 2



National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

Data Category:	Geographic Area:	
Groundwater 🗸	United States 🗸	GO

Click to hideNews Bulletins

Please see news on new formats

• Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320714103065701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320714103065701 25S.37E.13.43113

Lea County, New Mexico

Latitude 32°07'14", Longitude 103°06'57" NAD27

Land-surface elevation 3,077 feet above NAVD88

The depth of the well is 120 feet below land surface.

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

Output formate

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

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurema
1965-10-19		D	73.23			2		U		11 1, 1 10, 1 aprendant
1966-06-02		D	72.77			2		U		
1968-02-19		D	71.55			2		U		
1970-12-11		D	70.02			2		U		
19 76 -01-08		D	68.96			2		U		
1978-01-17		D	68.82			2		U		
1981-03-30		D	71.06			2		U		
1981-04-30		D	71.43			2		U		

		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

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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: 2017-03-06 18:05:46 EST 0.53 0.48 nadww02

USA.gov

Appendix B Lab Reports



February 10, 2017

DEAN ERICSON ENERGY TRANSFER P. O. BOX 1226

JAL, NM 88252

RE: 10" BLOCK VALVE (BLOCKER)

Enclosed are the results of analyses for samples received by the laboratory on 02/03/17 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number:

2C - 14-13

Project Location:

2C - 14-13 NONE GIVEN

141%

28-171

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #1 1.5' (H700273-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	02/05/2017	ND	2.19	110	2.00	0.345		
Toluene*	5.29	0.500	02/05/2017	ND	2.16	108	2.00	0.631		
Ethylbenzene*	8.97	0.500	02/05/2017	ND	2.17	108	2.00	0.194		
Total Xylenes*	41.5	1.50	02/05/2017	ND	6.13	102	6.00	0.335		
Total BTEX	55,8	3.00	02/05/2017	ND						
Surrogate: 4-Bromofluorobenzene (PIL	1179	6 73.6-14	0	V m						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	02/07/2017	ND	416	104	400	0.00		
TPH 8015M	mg/	kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	884	50.0	02/04/2017	ND	195	97.4	200	10.3		
DRO >C10-C28	4360	50.0	02/04/2017	ND	209	105	200	13.9		
EXT DRO >C28-C36	1090	50.0	02/04/2017	ND						
Surrogate: 1-Chlorooctane	196 %	6 35-147								

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

RTEY SOOTE

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number:

2C - 14-13 Project Location: NONE GIVEN

Sampling Date:

Sampling Type:

02/03/2017

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #2 1.5' (H700273-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	0.323	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	1.28	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	1.60	0.300	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	120	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS			Pro-			S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	69.2	50.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	7060	50.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	2140	50.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	102	% 35-147							
Surrogate: 1-Chlorooctadecane	195	% 28-171							

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

02/10/2017

Project Name: Project Number: 10" BLOCK VALVE (BLOCKER)

2C - 14-13

Project Location:

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #3 3' (H700273-03)

BTEX 8021B

Analyzed By: MS

,,,,,,,,	****	Totalyas						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.500	0.500	02/05/2017	ND	2.19	110	2.00	0.345	
5.25	0.500	02/05/2017	ND	2.16	108	2.00	0.631	
5.49	0.500	02/05/2017	ND	2.17	108	2.00	0.194	
20.0	1.50	02/05/2017	ND	6.13	102	6.00	0.335	
30.7	3.00	02/05/2017	ND					
107 9	% 73.6-14	0						
	Result <0.500 5.25 5.49 20.0 30.7	<0.500 0.500 5.25 0.500 5.49 0.500 20.0 1.50 30.7 3.00	Result Reporting Limit Analyzed <0.500	Result Reporting Limit Analyzed Method Blank <0.500	Result Reporting Limit Analyzed Method Blank BS <0.500	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.500	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.500	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.500

Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS			Υ'.			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	909	50.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	2130	50.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	526	50.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

141%

35-147

Surrogate: 1-Chlorooctadecane

117%

28-171

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Celey D. Keene, Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #4 1.5' (H700273-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	02/05/2017	ND	2.19	110	2.00	0.345		
Toluene*	1.02	0.500	02/05/2017	ND	2.16	108	2,00	0.631		
Ethylbenzene*	6,27	0.500	02/05/2017	ND	2.17	108	2.00	0.194		
Total Xylenes*	23.0	1.50	02/05/2017	ND	6.13	102	6.00	0.335		
Total BTEX	30,3	3.00	02/05/2017	ND						
Surrogate: 4-Bromofluorobenzene (PIC	115	% 73.6-14	o							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5330	16.0	02/07/2017	ND	416	104	400	0.00		
TPH 8015M	mg/	/kg	Analyzed By: MS				- 411	- 170	S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	746	50.0	02/04/2017	ND	195	97.4	200	10.3		
DRO >C10-C28	4730	50.0	02/04/2017	ND	209	105	200	13.9		
EXT DRO >C28-C36	1390	50.0	02/04/2017	ND						
Surrogate: 1-Chlorooctane	162	% 35-147								
Surrogate: 1-Chlorooctadecane	153	% 28-171								

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #5 1.5' (H700273-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	<0.150	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	<0.300	0.300	02/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

105 %

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg		Analyze	d By: MS			77.90		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	<10.0	10.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	84.8	% 35-147							

Surrogate: 1-Chlorooctadecane

92.0%

28-171

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College of trains

Celey D. Keene, Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #6 4.5' (H700273-06)

BTEX 80218	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	< 0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	<0.150	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	< 0.300	0.300	02/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

103 %

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS	-6.2	- '''			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	32.2	10.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	16.2	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

84.9 %

35-147

Surrogate: 1-Chlorooctadecane

93.8 %

28-171

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Celey D. Keene, Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #7 1.5' (H700273-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	0.220	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	<0.300	0.300	02/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

116%

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	1180	50.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	474	50.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

82.6%

35-147

Surrogate: 1-Chlorooctadecane

95.4%

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

10" BLOCK VALVE (BLOCKER)

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #8 1.5' (H700273-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	<0.150	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	<0.300	0,300	02/05/2017	ND					

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS			- "		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	<10.0	10.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	82.5	% 35-147							

Surrogate: 1-Chlorooctadecane

90.2 %

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #9 4.5' (H700273-09)

В	EX	80	21B
_	_	_	

m		

Analyze	d By	: M5
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400010,0000	***************************************		- totally as	u by. 1115					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2,16	108	2,00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	0.312	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	0.312	0.300	02/05/2017	ND					

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	183	10.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	70.4	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

85.3 %

35-147

Surrogate: 1-Chlorooctadecane

94.6%

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #10 1.5' (H700273-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	0.380	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	0.204	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	0.593	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	1.18	0.300	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	6 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			111		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.8	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	413	10.0	02/04/2017	ND	205	103	200	9.93	QM-07, QR-03
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	88.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	116 9	6 28-171	170						

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number: Project Location:

2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #11 1.5' (H700273-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	< 0.150	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	<0.300	0.300	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1049	73.6-14	Ò	777					
Chloride, SM4500CI-B	mg/	kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10,0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	26.0	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	80.39	6 35-147							
Surrogate: 1-Chlorooctadecane	95.79	6 28-171							

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Project Location:

NONE GIVEN

Jodi Henson

Sample ID: SAMPLE #12 4.5' (H700273-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	0.151	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	0.228	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	1.15	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	1.53	0.300	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113	% 73.6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	22.4	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	284	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	85.8	% 35-147							
Surrogate: 1-Chlorooctadecane	109	% 28-171							

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Celley Z. treene



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #13 1.5' (H700273-13)

mg	111
my	/ K

Analyzed By: MS

7,100,2122	9/	rig	rannyas	o by. 1-15						_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.921	0.100	02/07/2017	ND	2.18	109	2.00	0.505	QM-07	
Toluene*	7.12	0.100	02/07/2017	ND	2.15	108	2.00	0.763	QM-07	
Ethylbenzene*	1.75	0.100	02/07/2017	ND	2.15	108	2.00	0.169	QM-07	
Total Xylenes*	6.25	0.300	02/07/2017	ND	6.07	101	6.00	0.0884	QM-07	
Total BTEX	16.0	0.600	02/07/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL

114%

73.6-140

Chloride, SM4500CI-B	

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	1	ц	ч	1	k

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M mg/kg		/kg	Analyzed By: MS				4 4	. Nobec	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	213	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	811	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<50.0	50.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

92.8 %

35-147

Surrogate: 1-Chlorooctadecane

142 %

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported: 02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #14 1.5' (H700273-14)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	73,6-14	Ó						
Chloride, SM4500CI-B	mg/l	(g	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	77.6	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO > C28-C36	<50.0	50.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	71.29	35-147							
Surrogate: 1-Chlorooctadecane	106 %	28-171							

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #15 4.5' (H700273-15)

BTEX 8021B	mg/kg
1000	

Analyte		77.00	- Colori de	Trimitada attitud					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	0.082	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.604	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	0.687	0.300	02/07/2017	ND					

Analyzed By: MS

Surrogate: 4-Bromofluorobenzene (PIL

109%

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	591	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<50.0	50.0	02/04/2017	ND					
Surrogate: 1-Chlorogatane	84.8	% 35-147							

Surrogate: I-Chlorooctane

Surrogate: 1-Chlorooctadecane

113%

28-171

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Celey D. Keene, Lab Director/Quality Manager



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Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #16 1.5' (H700273-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	0.091	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.444	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	0.535	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113	% 73,6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1630	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<50.0	50.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	83.3	% 35-147							
Surrogate: 1-Chlorooctadecane	166	% 28-171							

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Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #17 1.5' (H700273-17)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

104%

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	<10.0	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

73.6-140

Surrogate: 1-Chlorooctadecane

99.8 %

28-171

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Celey D. Keene, Lab Director/Quality Manager

Page 18 of 61



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Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #18 4.5' (H700273-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	0.188	0.100	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.100	0.100	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	5.52	0.300	02/07/2017	ND	6.07	101	6,00	0.0884	
Total BTEX	5.71	0.600	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	135	% 73.6-14	0	1.10					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	208	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1190	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	103 5	% 35-147	•						
Surrogate: 1-Chloroactadecane	136 9	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

Project Location:

2C - 14-13 NONE GIVEN Sample Received By:

Jodi Henson

Sample ID: SAMPLE #19 1.5' (H700273-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	< 0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.291	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	110 9	6 73.6-14	o	1, 10					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.3	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1080	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10,0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	84.3 %	6 35-147							
Surrogate: 1-Chlorooctadecane	117 %	6 28-171							

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

BTEX 8021B

02/03/2017

Reported: 02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

mg/kg

NONE GIVEN

Sampling Date: Sampling Type: 02/03/2017

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #20 1.5' (H700273-20)

	, ,	-	THE RESIDENCE						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.841	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	0.841	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	136 9	6 73.6-14	ro						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	560	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		by the			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	60.1	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1720	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<50.0	50.0	02/04/2017	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctane

86.1%

35-147

Surrogate: 1-Chlorooctadecane

128 %

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To;

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #21 4.5' (H700273-21)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	0.225	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	2.39	0.150	02/07/2017	ND	6.07	101	6,00	0.0884	
Total BTEX	2.61	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	137 %	73.6-14	0						
Chloride, SM4500CI-B	mg/l	(g	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	110	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1570	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	107 %	35-147							
Surrogate: 1-Chlorooctadecane	123 %	28-171							

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #22 1.5' (H700273-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	< 0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	1219	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		100			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	746	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	65.45	6 35-147							

Surrogate: 1-Chlorooctadecane

103 %

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #23 1.5' (H700273-23)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.100	0.100	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.100	0.100	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.923	0.300	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	0.923	0.600	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	144%	73.6-14	0						
Chloride, SM4500Cl-B	mg/l	(g	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	976	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	161	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	2600	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	122%	35-147							
Surrogate: 1-Chlorooctadecane	143 %	28-171							

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

02/10/2017

Reported: Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #24 4.5' (H700273-24)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	1.92	1.00	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<1.00	1.00	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	57.8	3.00	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	59.7	6.00	02/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

114%

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	1670	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	4080	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

197 %

35-147

Surrogate: 1-Chlorooctadecane

165 %

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017 02/10/2017

Reported:

Project Name: 10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #25 1.5' (H700273-25)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.088	0.050	02/07/2017	ND	2.18	109	2.00	0.505		
Toluene*	3.40	0.050	02/07/2017	ND	2.15	108	2.00	0.763		
Ethylbenzene*	3.45	0.050	02/07/2017	ND	2.15	108	2.00	0.169		
Total Xylenes*	11.9	0.150	02/07/2017	ND	6.07	101	6.00	0.0884		
Total BTEX	18.9	0.300	02/07/2017	ND						
Surrogate: 4-Bromofluorobenzene (PIE	1739	6 73.6-14	0	.5.1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	02/08/2017	ND	432	108	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	91.2	10.0	02/04/2017	ND	191	95.6	200	4.89		
			100000000000000000000000000000000000000	N/m	205	103	200	9.93		
DRO >C10-C28	1220	10.0	02/04/2017	ND	205	103	200	2.22		

Surrogate: 1-Chlorooctane

92.9 %

35-147

Surrogate: 1-Chlorooctadecane

125 %

28-171

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Received:

BTEX 8021B

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

mg/kg

Sample ID: SAMPLE #26 1.5' (H700273-26)

TING EXCOR	mg/ng		Analyze	Analyzed by: 145					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	4.76	0.200	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	5.46	0.200	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	33.2	0.600	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	43.4	1.20	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	134 9	% 73.6-14	Ö						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	128	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	483	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1930	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

123 %

122 %

35-147 28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name: Project Number: Project Location: 10" BLOCK VALVE (BLOCKER)

2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #27 4.5' (H700273-27)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	12.6	1.00	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	22.1	1.00	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	97.1	3.00	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	132	6.00	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118	% 73.6-14	0	r L					
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1760	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	3800	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctadecane 164% 28-171

218%

35-147

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Surrogate: I-Chlorooctane

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location:

2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #28 1.5' (H700273-28)

	/kg

BIEX 8021B	mg/kg		Anaiyze	Analyzed by: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2,15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					

Surrogate: 4-Bromofluorobensene (PIL

105 %

73.6-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	02/08/2017	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/kg		Analyzed By: MS						1111
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	13.7	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

83.6%

35-147

Surrogate: 1-Chlorooctadecane

101%

28-171

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Celey D. Keene, Lab Director/Quality Manager

Page 29 of 61



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Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

BTEX 8021B

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

mg/kg

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #29 4.5' (H700273-29)

		119	14,144,144	W. W. L. C. C. C.					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	< 0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0,300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	105 9	6 73.6-14	0	The second					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	02/08/2017	ND	432	108	400	0.00	

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS			111		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	<10.0	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane 79.1% 35-147 Surrogate: 1-Chlorooctadecane 95.0% 28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number: Project Location:

2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #30 4.5' (H700273-30)

BTEX 8021B	mg/	/kg	Analyzed By: MS			
Analyte	Result	Reporting Limit	Analyzed	Method Blank		
with the same of t		0.050	02/02/2012	NIC		

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0,300	0,300	02/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

104%

73.6-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/03/2017	ND	171	85.3	200	0.147	
DRO >C10-C28	<10.0	10.0	02/03/2017	ND	173	86.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	02/03/2017	ND					

Surrogate: 1-Chlorooctane

81.4%

35-147

Surrogate: 1-Chlorooctadecane

98.6%

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #31 4.5' (H700273-31)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	13.5	5.00	02/08/2017	ND	2.18	109	2.00	0.505	
Toluene*	170	5.00	02/08/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	135	5.00	02/08/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	381	15.0	02/08/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	700	30.0	02/08/2017	ND					

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	2360	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				-10	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifie

Chioride	2360	16.0	02/06/2017	ND	432	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				-104	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10400	50.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	21100	50.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	5460	50.0	02/04/2017	ND					

35-147

28-171

Surrogate: 1-Chlorooctane 326% Surrogate: 1-Chlorooctadecane 336 %

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #32 4.5' (H700273-32)

BTEX 8021B	mg/	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	200
Toluene*	<0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	< 0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	< 0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 73.6-14	0	7.0					
Chloride, SM4500CI-B	mg/	(g	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	<10.0	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO > C28-C36	<10.0	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	81.3 9	6 35-147					1		
Surrogate: 1-Chlorooctadecane	93,29	6 28-171							

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Celley Z trains



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number: Project Location:

2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #33 6' (H700273-33)

BIEX BUZIB	mg/	кg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	18.2	2.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	47.5	2.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	167	6.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	233	12.0	02/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

114%

73.6-140

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3340	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	4030	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1680	10.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

35-147

Surrogate: 1-Chlorooctadecane

142 %

28-171

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Celley Z. trains



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

79.3 %

86.3 %

35-147

28-171

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #34 4.5' (H700273-34)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	106%	6 73.6-14	0						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: HM					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/08/2017	ND	432	108	400	0.00	
ТРН 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	45.2	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	26.1	10.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number:

2C - 14-13

Sampling Condition:

Cool & Intact

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #35 6' (H700273-35)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	19.8	5.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	215	5.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	88.7	5.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	385	15.0	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	708	30.0	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 73,6-14	o	3.0.5					
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8360	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	6960	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO > C28-C36	1960	50.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	215 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	153 9	28-171							

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Received:

02/03/2017

Reported:

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #36 6' (H700273-36)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2.77	2.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
48.0	2.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
38.0	2.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
173	6.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
262	12.0	02/08/2017	ND					
	Result 2.77 48.0 38.0 173	Result Reporting Limit 2.77 2.00 48.0 2.00 38.0 2.00 173 6.00	Result Reporting Limit Analyzed 2.77 2,00 02/08/2017 48.0 2,00 02/08/2017 38.0 2,00 02/08/2017 173 6,00 02/08/2017	Result Reporting Limit Analyzed Method Blank 2.77 2,00 02/08/2017 ND 48.0 2,00 02/08/2017 ND 38.0 2,00 02/08/2017 ND 173 6.00 02/08/2017 ND	Result Reporting Limit Analyzed Method Blank BS 2.77 2,00 02/08/2017 ND 2.00 48.0 2,00 02/08/2017 ND 1.96 38.0 2,00 02/08/2017 ND 1.95 173 6.00 02/08/2017 ND 5.53	Result Reporting Limit Analyzed Method Blank BS % Recovery 2.77 2.00 02/08/2017 ND 2.00 99.9 48.0 2.00 02/08/2017 ND 1.96 98.0 38.0 2.00 02/08/2017 ND 1.95 97.6 173 6.00 02/08/2017 ND 5.53 92.2	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 2.77 2.00 02/08/2017 ND 2.00 99.9 2.00 48.0 2.00 02/08/2017 ND 1.96 98.0 2.00 38.0 2.00 02/08/2017 ND 1.95 97.6 2.00 173 6.00 02/08/2017 ND 5.53 92.2 6.00	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 2.77 2,00 02/08/2017 ND 2.00 99.9 2.00 3.84 48.0 2,00 02/08/2017 ND 1.96 98.0 2.00 4.14 38.0 2,00 02/08/2017 ND 1.95 97.6 2.00 3.96 173 6.00 02/08/2017 ND 5.53 92.2 6.00 3.64

Surrogate: 4-Bromofluorobenzene (PID

114%

73.6-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3530	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	6820	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1950	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

184%

35-147

Surrogate: 1-Chlorooctadecane

164%

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #37	4.5' (H700273-37)
BTEX 8021B	mg/kg

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	17.1	10.0	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	220	10.0	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	128	10.0	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	423	30.0	02/08/2017	ND	5.53	92.2	6.00	3,64	
Total BTEX	789	60.0	02/08/2017	ND					

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10600	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	18600	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	5230	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane 312% 35-147 Surrogate: 1-Chlorooctadecane 305 % 28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

02/10/2017

Reported: Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #38 6' (H700273-38)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.4	5.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	177	5.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	71.6	5.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	289	15.0	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	548	30.0	02/08/2017	ND					

Surrogate:	t-Bromofluorobe	nzene (PIC
------------	-----------------	------------

110%

73.6-140

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5740	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	4230	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	893	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

161%

35-147

Surrogate: 1-Chlorooctadecane

128 %

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

10" BLOCK VALVE (BLOCKER) 2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #39 6' (H700273-39)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	11.1	1.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	16.2	1.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	70.1	3.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	97.4	6.00	02/08/2017	ND					

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/kg Analyzed By: MS							S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1460	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	4570	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1350	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

160%

35-147

Surrogate: 1-Chlorooctadecane

151%

28-171

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Celey D. Keene, Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

BTEX 8021B

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #40 6' (H700273-40)

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/08/2017	ND	2.00	99.9	2.00	3,84	
Toluene*	5.74	2.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	14.9	2.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	95.0	6.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	116	12.0	02/08/2017	ND					
Surrogate: 4-Bromofluorabenzene (PIL	112	% 73.6-14	10	SAM					
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2220	50.0	02/06/2017	ND	186	93,1	200	0.568	
DRO >C10-C28	4330	50.0	02/06/2017	ND	200	99.9	200	0.657	
And the second s									

ND

02/06/2017

50.0

Analyzed By: MS

35-147 161% Surrogate: 1-Chlorooctane 130 % 28-171 Surrogate: 1-Chlorooctadecane

1670

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EXT DRO > C28-C36

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #41 6' (H700273-41)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<1.00	1.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	1.42	1.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	5.21	1.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	36.9	3.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	43.5	6.00	02/08/2017	ND					

Surrogate:	4-Bromof	luorobenzene	(PIL
------------	----------	--------------	------

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1000	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	3670	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1530	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

144 %

35-147

Surrogate: 1-Chlorooctadecane

140%

28-171

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #42 6' (H700273-42)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	5.58	1.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	30.1	1.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	123	3.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	159	6.00	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116	% 73.6-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				100	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1730	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	5500	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1910	50.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	158	% 35-147	7						
Surrogate: 1-Chlorooctadecane	171	% 28-17.	i						

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Received:

02/03/2017

02/10/2017

Reported: Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #43 4.5' (H700273-43)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	6 73.6-14	0	7/1/					
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				William	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	21.8	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	14.3	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	78.3 9	6 35-147							
Surrogate: 1-Chlorooctadecane	86.19	6 28-171							

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #44 SURFACE (H700273-44)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	0.364	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	0.122	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	0.517	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	1.04	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 73.6-14	0	To a large					
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	1100	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	354	50.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	75.3 9	% 35-147							
Surrogate: 1-Chlorooctadecane	103 9	6 28-171							

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #45 SURFACE (H700273-45)

EX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	0.131	0.050	02/08/2017	ND	1.96	98,0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0,300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	105 9	% 73.6-14	o	1.0					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	478	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	288	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	70.0	% 35-147	6						
Surrogate: 1-Chloroactadecane	89.3	% 28-171							

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Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number: Project Location:

2C - 14-13

88.4%

28-171

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #46 SURFACE (H700273-46)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	6 73.6-14	Ô						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	10.3	10.0	02/06/2017	ND	200	99,9	200	0.657	
EXT DRO >C28-C36	10.2	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	82.4 9	% 35-147	,						

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Surrogate: 1-Chlorooctadecane

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #47 SURFACE (H700273-47)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.500	0.500	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.500	0.500	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	14.1	1.50	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	14.1	3.00	02/08/2017	ND					
Surragate: 4-Bromofluorobenzene (PIL	117	% 73.6-14	o						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	659	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	7090	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	2460	50.0	02/06/2017	ND					
Surrogate: 1-Chloroactane	133	% 35-147							
Surrogate: 1-Chlorooctadecane	185	% 28-171							

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

RTEY GOOTS

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

ma/ka

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #48 SURFACE (H700273-48)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	0.194	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	73.6-14	o						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC				- 17	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/09/2017	ND	432	108	400	3.64	QM-07, QR-03
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.3	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	720	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	251	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	88.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.9	% 28-171	,						

Analyzed By: MS

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported: 02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #49 SURFACE (H700273-49)

True Value QC	RPD	Qualifier
2.00	3.84	
2.00	4.14	
2.00	3.96	
6.00	3.64	
True Value QC	RPD	Qualifier
400	3.64	
12.0		
True Value QC	RPD	Qualifier
200	0.568	
200	0.657	
,	200	200 0.568

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #50 SURFACE (H700273-50)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	< 0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1069	6 73.6-14	a						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	02/09/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	<10.0	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	<10.0	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	83.4 9	6 35-147							
Surrogate: 1-Chlorooctadecane	92.69	6 28-171							

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PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim unsing, whether based in contract or text, shall be limited to the amount paid by client for analyses. All claims, including those for negligence end any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential diamages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client is haved upon any of the above stated reasons or otherwise. Results felate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

College Therma



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

02/10/2017

Reported: Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

88.6%

28-171

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #51 SURFACE (H700273-51)

TEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2017	ND -	2.11	106	2.00	0.803	
Toluene*	<0.050	0.050	02/09/2017	ND	2.08	104	2.00	1.10	
Ethylbenzene*	<0.050	0.050	02/09/2017	ND	2.10	105	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/09/2017	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	02/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/09/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	<10.0	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	<10.0	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	79.2	% 35-147							

Analyzed Dur MC

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Surrogate: 1-Chlorooctadecane

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ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #52 SURFACE (H700273-52)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.22	111	2.00	1.91	
Toluene*	<0.050	0.050	02/07/2017	ND	2.20	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.19	109	2.00	1.31	
Total Xylenes*	< 0.150	0.150	02/07/2017	ND	6.18	103	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 73.6-14	0	1,1					
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/09/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	189	94,4	200	0.373	
DRO >C10-C28	<10.0	10.0	02/06/2017	ND	205	103	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	85.09	6 35-147							
Surrogate: 1-Chlorooctadecane	92.4 9	6 28-171							

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Celly I Kins.



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

C - 14-13

Sample Received By:

Jodi Henson

Project Number: Project Location: 2C - 14-13 NONE GIVEN

Sample ID: SAMPLE #53 SURFACE (H700273-53)

TEX 8021B	mg/kg		Analyzed By: MS					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2017	ND	2.22	111	2.00	1.91	1.00	
Toluene*	0.287	0.050	02/07/2017	ND	2.20	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.19	109	2.00	1.31		
Total Xylenes*	6.27	0.150	02/07/2017	ND	6.18	103	6.00	1.32		
Total BTEX	6.56	0.300	02/07/2017	ND						
Surrogate: 4-Bromofluorobenzene (PIL	157 9	% 73.6-14	0							
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/09/2017	ND	432	108	400	3.64		
TPH 8015M	mg/	kg	Analyzed By: MS			1000				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	123	50.0	02/06/2017	ND	189	94.4	200	0.373		
DRO >C10-C28	1180	50.0	02/06/2017	ND	205	103	200	1.32		
EXT DRO >C28-C36	447	50.0	02/06/2017	ND						
Surrogate; 1-Chlorooctane	88.6	% 35-147	7							
Surrogate: 1-Chlorooctadecane	107 9	28-17	1							

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.	
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.	
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.	
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.	
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.	
ND	Analyte NOT DETECTED at or above the reporting limit	
RPD	Relative Percent Difference	
**	Samples not received at proper temperature of 6°C or below.	
***	Insufficient time to reach temperature.	
×.	Chloride by SM4500CI-B does not require samples be received at or below 6°C	
	Samples reported on an as received basis (wet) unless otherwise noted on report	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476	X (575) 393-2476		ANALYSIS REDUEST
Company Name: ENECTY	Transfer	BILL TO	ANALISIO
Project Manager: Decyn E	ricson	P.O. #:	
Address:		Company:	36
City:	State: Zip:	Attn:	-C
Phone #:	Fax#:	Address:	4.0
Project#	Project Owner:	City:	.C
Brief Name: 20-14-13		State: Zip:	ct
no 10" Black	Valve (Blacker)	Phone #:	Ex
Salvin B	Er	Fax #:	
- 1	MATRIX		
lah I D. Sample I.D.	OR (C)OMP. AINERS OWATER	SE	
H700773		SLUDGE OTHER: ACID/BAS ICE / COO OTHER	TOPH CL
1 Sumple #1		2-3-17	81.50/1
14 AX	- W		
	ナグ・		
	1/2'		
45	127		(
PLEASE NOTE: Lightify and Damages: Cardwal's facility and cleen's exident analyses. As damag including those for registence and any other cause when the state of the cause when the cause	or clen's exclusive remedy to any claim arising whether based their cause whatboover shall be deemed waived unless made in	n contrast or sor, shall be limited to the amount paid by the client for the methog and received by Caronnal within 30 days after completion of the applicable mentions in our or local of middle occurred by Client its subsidiaries.	uad by the deet for the MacCompletion of the Applicable MacCompletion of the applicable V client its subdistance in the Applicable
where the programme and countries alone to recommend and alone to recommend and the conformal Relinquished By:	Date: 3-(7) Received By:	Ma MA OPM	Phone Result:
Relinquished By:	Date: Received By:		Decru 510 600 000
	Time:	2	Johnnie
Delivered By: (Circle One)	170	Cool Intact (Initials)	÷ (
Sampler - UPS - Bus - Other:	TYPES	No ST	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476	76			
Company Name: Ewagy Transfer		BILL TO	ANALYSIS	REQUEST
T		P.O. #:		
		Company:		
City: State:	Zip:	Attn:		
Phone #: Fax #:		Address:		
Project #: Project Owner:	35.	City:		
Project Name: 10" Block Value (B	Blocker)	State: Zip:		
on: 20-14-3		Phone #:		
1		Fax#:		+
	MATRIX	PRESERV. SAMPLING	G	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER ACID/BASE ICE / COOL OTHER DATE	TPH CL BTX	
Sample # 11		4.3-17	8150	
10-10-4 10-10-4				
THUS 4.30				
15 #18 4/2"				
30 A A 80 1 12		1		
event shall Cardinal be leaded, liability and client lains including trose for regisjence and any other of		1 00	rit paid by the client for the re after completion of the applicable of by plant, its subsidiaries.	
Relinquished By: Date: Timper: 41 Relinquished By: Date:	Received By: Received By:	duson_	Phone Result:	
Delivered By: (Circle One)		dition CHECKED BY:	Johnnie	
Sampler - UPS - Bus - Other: # 15	No No	Yes Care		

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(575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

H700273 Project Manager: Relinquished By: Sampler Name: Project Location: Project Name: Project #: Phone #: Address: Relinquished By: Delivered By: (Circle One) Lab I.D. KNEGY 8-4-3 Igle R. law Block Value (Blocker Sample I.D. Enc Son 10005 to Browes Project Owner: Time: State: (G)RAB OR (C)OMP Received By # CONTAINERS GROUNDWATER Cool Intact Wes Tres Sample Condition WASTEWATER MATRIX SOIL SLUDGE Fax #: City: P.O. #: OTHER Attn: Company: Phone #: Address: ACID/BASE PRESERV ed by Cardinal within 30 days after one ICE / COOL BILL TO OTHER Zip: -3-17 G:00A DATE SAMPLING ned by clean is subsidiaren Fax Result: REMARKS: Phone Result TIME Method of the ago TPH □ Yes BTX No No ANALYSIS REQUEST Add'l Phone #: Add'l Fax #:

Sampler - UPS - Bus - Other:

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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(57)	(575) 393-2326 FAX (575) 393-2476	76			
Company Name:	ENOSY Trauste		BILL TO	A	ANALYSIS REQUEST
Project Manager:	N		P.O. #:		
Address:			Company:		
City:	State:	Zip:	Attn:		
Phone #:	Fax#:		Address:		
Project #:	Project Owner	ä	City:		
ame: O	"Block Value (B)	Blocker)	State: Zip:		
Project Location:	2C-14-3		Phone #:		
Sampler Name:	THE BROWN	Or	Fax #:		
FOR USUSEONLY		MATRIX	PRESERV. SAMPLING	ING	
Lab I.D. #700273	Sample I.D.	(G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE ICE / COOL OTHER:	TPH CL BTX	
3 5	15,7 18 H aldwar		e	7 9:15/2	
en	#33 6				
K	#34 4161				
K	#356				
200	47 LC#				
35	438 6				
Z.	#36 6)=		1-	
PLEASE NOTE: Laudity and Damages. Cardinal's laudity and of analyses. All clems, including those for negligence and sky other service, I'm to exert phali Cardinal be liable for incidental or cores	eni's esclusive rec cause whatspever quental damages	realy for any claim areing whether based it shall be deemed wayved unless made in a mountaing whost limitation business inter	contract or fart, shall be limited to the amount paid by the client for the items and lectained by Carolinal witten 30 days after completion of the applicable ruptons, toos of use, or less of profits incurred by others, its subsidiaries.	pad by the clent for the after completion of the applicable by client, its subsidiaries.	
Relinquished By:	Time:	Received By:	Henson	Phone Result:	Add'i Fhone #: Add'i Fax #:
Delivered By: (Circle One)	Sircle One) #75 170		Sample Condition CHECKED BY: Cool Intact Initiate		
Sampler - UPS - Bus - Other:			No.		

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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575)	575) 393-2326 FAX (575) 393-2476	ď				
Company Name: /	EWASHY Transfe		BILL TO		ANALYSIS REQUEST	
Project Manager:	ロン		P.O. #:			
Address:			Company:			
City:	State:	Zip:	Attn:			
Phone #:	Fax#:		Address:			
Project #:	Project Owner	л ,	City:			
ame:	10" Block Value (1	Blacker)	State: Zip:			
on:	JC-H-3		Phone #:			
Sampler Name:	THER R. BODWES		1			
FOR LAB USE DALY		S ER	PRESERV	G		
Lab I.D. H180775	Sample I.D.	(G)RAB OR (C)C # CONTAINERS GROUNDWATE! WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TPIT CL BTX		
HI Sum	# 200		2-3-17 930/	043VK		
84	5.					
44	5					
5	# # HP Swan					
25	H # H >wine					
4	# # # Varian					
19	H # 46 Sutu		1			
PLEASE NOTE: Liability and Damages. analyses: All claims including those for	at labely and client's exclusive ran	3 5 7	constant or surf. shall be lember to the amount paid by the blent for the strip and sectioned by Controls lember, by days after completion of the applicable prices loss of one or loss of politic normals by class, its subsidiaries.	paid by the plant for the applicable by clant, as subsidiaries.		
Relinquished By:	u the performance of services hereus Date: 3-3	T 13	Denson	It: □ Yes	□ No Add'i Phone #:	
Relinquished By:	Date:	RACEWED BY:				
Delivered By: (Circle One)		Sample Condition	dition CHECKED BY:			
Sampler - OFS - Bus - Oniei.			No CLA			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marian (575) 393-2326 Company Name: Full Company Name:	(575) 393-2326 FAX (575) 393-2476	вітт то	ANALYSIS REQUEST
Project Manager:	Cuc son	P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name: 10 1 Block	+ Value (Blocker)	State: Zip:	
on: 20-	4-13	Phone #:	
Sampler Name:		Fax #:	
FOR LAB USE DIALY	MATRIX	RIX PRESERV. SAMPLING	
Lab I.D. Samp	(G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE ICE / COOL OTHER: DATE TIME	TPH CL BTx
Surple	451 Swfra		3
THE HALL	453 Swh	+	1-
PLEASE NOTE: Laptity and Danages. Cardina's land analyses. All dama including those for regigence and s	PLEASE NOTE: Lubbly and Danages. Cardeal's lability and clerk's exhause remain for any claim arising whether cased analyses. All claims including those for negligence and any other cause invalidations that he cleared waved unless made in	o contract ir lank, shall be limited to the amount paid by the client for the warring and received by Costicial within 30 days after completion of the explicable encylone, loss of use, or base of profits incurred by client, do specialized.	(to the applicable to the app
Relinquished By:	46	out dam a traced upon any of the apove stated respons or otherwise. Phone Result: Fax Result: REMARKS:	reset: □ Yes □ No Add'l Phone #: sult: □ Yes □ No Add'l Fax #: tKS:
Relinquished By:			
	Time:		

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April 11, 2017

BERNARD BUCKISCH
GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE, NM 87110

RE: 2C - 14 - 3 10"

Enclosed are the results of analyses for samples received by the laboratory on 03/29/17 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Reported:

11-Apr-17 11:57



Analytical Results For:

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10" Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1113520-1-032817-TP-1-14'	H700827-01	Soil	28-Mar-17 11:40	29-Mar-17 14:15
S-1113520-1-032817-TP-2-8'	H700827-02	Soil	28-Mar-17 10:55	29-Mar-17 14:15
S-1113520-1-032817-TP-3-8'	H700827-03	Soil	28-Mar-17 12:10	29-Mar-17 14:15
S-1113520-1-032817-TP-5-4'	H700827-04	Soil	28-Mar-17 13:00	29-Mar-17 14:15
S-1113520-1-032817-TP-6-4'	H700827-05	Soil	28-Mar-17 13:20	29-Mar-17 14:15
S-1113520-1-032817-TP-8-4'	H700827-06	Soil	28-Mar-17 13:50	29-Mar-17 14:15
S-1113520-1-032817-TP-9-4'	H700827-07	Soil	28-Mar-17 14:15	29-Mar-17 14:15
S-1113520-1-032917-TP-3-23'	H700827-08	Soil	29-Mar-17 09:55	29-Mar-17 14:15
S-1113520-1-032917-TP-10-4'	H700827-09	Soil	29-Mar-17 10:20	29-Mar-17 14:15
S-1113520-1-032917-TP-11-4'	H700827-10	Soil	29-Mar-17 10:35	29-Mar-17 14:15
S-1113520-1-032917-TP-12-4'	H700827-11	Soil	29-Mar-17 10:45	29-Mar-17 14:15
S-1113520-1-032917-TP-13-4'	H700827-12	Soil	29-Mar-17 11:05	29-Mar-17 14:15
S-1113520-1-032917-TP-14-4'	H700827-13	Soil	29-Mar-17 11:20	29-Mar-17 14:15
S-1113520-1-032917-TP-15-4'	H700827-14	Soil	29-Mar-17 12:05	29-Mar-17 14:15

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Reported: 11-Apr-17 11:57

Fax To:

S-1113520-1-032817-TP-1-14' H700827-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
General Chemistry										
% Dry Solids	86.4			%	1	B704020	JDA	06-Apr-17	EPA160.3/16	
									84	
Soluble (DI Water Extraction)										
Chloride	127		11.6	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Reported:



Analytical Results For:

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

11-Apr-17 11:57

S-1113520-1-032817-TP-2-8' H700827-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		96.5 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			106 %	25.1	-158	7032911	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			116 %	26.8	-170	7032911	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	86.4			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	269		11.6	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

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GHD SERVICES, INC.

 $6121\ \mbox{INDIAN}$ SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-3-8'

H700827-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.4 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			98.4 %	25.1	-158	7032911	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			107 %	26.8	-170	7032911	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry			•	v						
% Dry Solids	83.8			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	_
Soluble (DI Water Extraction)										
Chloride	225		11.9	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

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GHD SERVICES, INC.

 $6121\ \mbox{INDIAN}$ SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-5-4' H700827-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.8 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			75.3 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			84.0 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Analy	tical Lab	oratories					
General Chemistry										
% Dry Solids	87.7			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										

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mg/kg dry

B704016

JDA

05-Apr-17

EPA300.0

11.4

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Celey D. Keine

Chloride

<11.4



GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-6-4' H700827-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.2 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			89.2 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			97.6 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	92.1			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	56.4		2.17	mg/kg dry	2	B704016	JDA	06-Apr-17	EPA300.0	

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GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-8-4'

H700827-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		97.4 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			82.1 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			87.6 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	87.0			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)									
Chloride	537		11.5	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

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GHD SERVICES, INC.

 $6121\ \textsc{Indian}$ School RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-9-4'

H700827-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.0 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			87.7 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			87.6 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	90.8			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	359		11.0	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Reported: 11-Apr-17 11:57

Project Manager: BERNARD BUCKISCH Fax To:

S-1113520-1-032917-TP-3-23' H700827-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	88.6			%	1	B704020	JDA	06-Apr-17	EPA160.3/16	

 Soluble (DI Water Extraction)

 Chloride
 215
 11.3 mg/kg dry
 10 B704016
 JDA 05-Apr-17 EPA300.0

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Reported: 11-Apr-17 11:57

ALBUQUERQUE NM, 87110

Project Manager: BERNARD BUCKISCH

Fax To:

S-1113520-1-032917-TP-10-4' H700827-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds l	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		96.6 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	40.4		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			85.5 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			93.5 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	91.1			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)	1									
Chloride	<11.0		11.0	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Reported: 11-Apr-17 11:57

Project Manager: BERNARD BUCKISCH

Fax To:

S-1113520-1-032917-TP-11-4' H700827-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		96.7 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			92.2 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			99.0 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	91.9			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)									
Chloride	51.1		2.18	mg/kg dry	2	B704016	JDA	06-Apr-17	EPA300.0	M:

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Reported: 11-Apr-17 11:57

Project Manager: BERNARD BUCKISCH

Fax To:

S-1113520-1-032917-TP-12-4' H700827-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.2 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			83.9 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			86.5 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	88.4			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	350		11.3	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Reported: 11-Apr-17 11:57

ALBUQUERQUE NM, 87110

Project Manager: BERNARD BUCKISCH

Fax To:

S-1113520-1-032917-TP-13-4' H700827-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.2 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			89.4 %	25.1-	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			90.1 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	89.2			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)									.	
Chloride	264		11.2	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

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GHD SERVICES, INC.
6121 INDIAN SCHOOL RD. NE S

6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032917-TP-14-4' H700827-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.4 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			87.4 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			87.7 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	91.3			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	59.7		11.0	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 Project: 2C - 14 - 3 10" Project Number: 1113520-1 Reported: 11-Apr-17 11:57

ALBUQUERQUE NM, 87110

Project Manager: BERNARD BUCKISCH

Fax To:

S-1113520-1-032917-TP-15-4' H700827-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	ı		96.5 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			87.6 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			90.9 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	vtical Lab	oratories					
General Chemistry				•						
% Dry Solids	83.6			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	259		12.0	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Reported: 11-Apr-17 11:57

Fax To:

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7033101 - Volatiles										
Blank (7033101-BLK1)				Prepared &	Analyzed:	31-Mar-17	7			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		96.6	72-148			
LCS (7033101-BS1)				Prepared &	Analyzed:	31-Mar-17	7			
Benzene	1.91	0.050	mg/kg	2.00		95.7	79.5-124			
Toluene	1.79	0.050	mg/kg	2.00		89.4	75.5-127			
Ethylbenzene	1.79	0.050	mg/kg	2.00		89.3	77.7-125			
Total Xylenes	5.08	0.150	mg/kg	6.00		84.6	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0480		mg/kg	0.0500		95.9	72-148			
LCS Dup (7033101-BSD1)				Prepared &	Analyzed:	31-Mar-17	7			
Benzene	1.87	0.050	mg/kg	2.00		93.4	79.5-124	2.45	6.5	<u> </u>
Toluene	1.75	0.050	mg/kg	2.00		87.3	75.5-127	2.38	7.02	
Ethylbenzene	1.74	0.050	mg/kg	2.00		87.2	77.7-125	2.41	7.83	
Total Xylenes	4.96	0.150	mg/kg	6.00		82.6	70.9-124	2.43	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.1	72-148			

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE.

6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7032911 - Gene	eral Prep - Organics
----------------------	----------------------

Blank (7032911-BLK1)				Prepared & Anal	lyzed: 29-Mar-17	,			
GRO C6-C10	ND	10.0	mg/kg		-				
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0	104	25.1-158			
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0	106	26.8-170			
LCS (7032911-BS1)				Prepared & Anal	lyzed: 29-Mar-17	,			
GRO C6-C10	222	10.0	mg/kg	200	111	78.6-112			
DRO >C10-C28	223	10.0	mg/kg	200	111	76.7-124			
Total TPH C6-C28	445	10.0	mg/kg	400	111	78.5-117			
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0	115	25.1-158			
Surrogate: 1-Chlorooctadecane	59.8		mg/kg	50.0	120	26.8-170			
LCS Dup (7032911-BSD1)				Prepared & Anal	lyzed: 29-Mar-17	,			
GRO C6-C10	221	10.0	mg/kg	200	110	78.6-112	0.749	13	
DRO >C10-C28	220	10.0	mg/kg	200	110	76.7-124	1.25	15.5	
Total TPH C6-C28	440	10.0	mg/kg	400	110	78.5-117	1.00	13.6	
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0	114	25.1-158			
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0	117	26.8-170			

Batch 7033002 - General Prep - Organics

Blank (7033002-BLK1)		Prepared & Analyzed: 30-Mar-17						
GRO C6-C10	ND	10.0	mg/kg					
DRO >C10-C28	ND	10.0	mg/kg					
EXT DRO >C28-C35	ND	10.0	mg/kg					
EXT DRO >C28-C36	ND	10.0	mg/kg					
Total TPH C6-C28	ND	10.0	mg/kg					
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0	100	25.1-158		
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0	106	26.8-170		

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%REC

Limits

RPD



Analytical Results For:

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Analyte

Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Spike

Level

Source

Result

%REC

Reported: 11-Apr-17 11:57

RPD

Limit

Notes

Project Manager: BERNARD BUCKISCH

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

LCS (7033002-BS1)				Prepared & Ana	lyzed: 30-Mar-1	7
GRO C6-C10	186	10.0	mg/kg	200	93.0	78.6-112
DRO >C10-C28	194	10.0	mg/kg	200	97.0	76.7-124
Total TPH C6-C28	380	10.0	mg/kg	400	95.0	78.5-117
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0	106	25.1-158
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0	107	26.8-170

Les Dup (7055002-B5D1)				r repared & r m	aryzea. 30 mar 17			
GRO C6-C10	193	10.0	mg/kg	200	96.5	78.6-112	3.65	13
DRO >C10-C28	201	10.0	mg/kg	200	101	76.7-124	3.73	15.5
Total TPH C6-C28	394	10.0	mg/kg	400	98.6	78.5-117	3.69	13.6
Surrogate: 1-Chlorooctane	55.4		mg/kg	50.0	111	25.1-158		
Surrogate: 1-Chlorooctadecane	55.6		mg/kg	50.0	111	26.8-170		

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GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10" Project Number: 1113520-1

Reported: 11-Apr-17 11:57

Project Manager: BERNARD BUCKISCH

Fax To:

General Chemistry - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch B704020 - General Prep - Wet Chem

Duplicate (B704020-DUP1)	Source: 1703196-01		Prepared: 04-Apr-17 Analyzed: 06-Apr-17		
% Dry Solids	98.5	%	98.7	0.203	20

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%REC



Analytical Results For:

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Spike

Source

Reported: 11-Apr-17 11:57

RPD

Fax To:

Reporting

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B704016 - General Prep - Wet Chem										
Blank (B704016-BLK1)				Prepared: ()4-Apr-17 A	nalyzed: 0	5-Apr-17			
Chloride	ND	10.0	mg/kg wet							
LCS (B704016-BS1)				Prepared: (04-Apr-17 A	analyzed: 0	5-Apr-17			
Chloride	235	10.0	mg/kg wet	250		94.1	85-115			
LCS Dup (B704016-BSD1)	Prepared: 04-Apr-17 Analyzed: 05-Apr-17									
Chloride	235	10.0	mg/kg wet	250		93.9	85-115	0.251	20	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference

in sample.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By:

Relinquished By:

Time: / 4/5
Date:

Received B

Date: /29//7

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No Add'I Phone #:

bernard.bockisch@ghd.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: CHO Sevulles	BILL TO	ANALYSIS REQUEST
Project Manager: Bernard Buckisch	P.O. #:	
Address: 612) Indian School Rd, NE	WE STE 200 company: ETC	
	State: No zip: 87/10 Attn: Dean Ericson	
Phone #: 505-884-0672 Fax #:	Address:	~gı
	Project Owner: City:	FON
01 2	State: Zip:	
Project Location:	Phone #:	30
Sampler Name: Alan Branch	Fax#:	
- 1	MATRIX PRESERV.	115
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX
1 S 1113620-1-032917-TP-12-4	C2 XM	x x x x x x
12 5-1113520-1-032917-78-13-4	P-13-1/C2 X 32-91	17 105 Y X X
13 5.1113520-1-032917-714-4	*	サイメを記し
14 5-11135-20-1-032917-TP-15-4	62 1	17 1205 X X X
PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusion	we remedy for any claim analog whether based in contract or too, shall be limited to the amoun	of paid by the clearl for the
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusi	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim areing whether based in contract or tort, shall be limited to the amount paid by the client for the purple of the property of the supplicable.	unt paid by the client for the via a few parts of the state of the supplicable via after completion of the supplicable

Sample Condition
Cool Intact
Yes W Yes
No No

(Intials)

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By:

Time: \(\mu'\)!

Date:
Time:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

bernard. bookisch Gghd. com

Relinquished By:



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

July 10, 2017

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

FAX

RE: 2C 14 3 10" OrderNo.: 1706G41

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/29/2017 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 www.hallenvironmental.com 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 **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062617-SP-01

 Project:
 2C 14 3 10"
 Collection Date: 6/26/2017 4:30:00 PM

 Lab ID:
 1706G41-001
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: MRA
Chloride	150	30	mg/Kg	20	7/5/2017 11:29:33 PM	32641
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANIC	S			Analyst	:: TOM
Diesel Range Organics (DRO)	31	9.6	mg/Kg	1	7/5/2017 2:04:23 PM	32588
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/5/2017 2:04:23 PM	32588
Surr: DNOP	100	70-130	%Rec	1	7/5/2017 2:04:23 PM	32588
EPA METHOD 8015D: GASOLINE RANG	iΕ				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Surr: BFB	106	54-150	%Rec	1	7/5/2017 12:07:50 PM	32610
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Toluene	ND	0.048	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Ethylbenzene	ND	0.048	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Xylenes, Total	ND	0.096	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	7/5/2017 12:07:50 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062617-SP-02

 Project:
 2C 14 3 10"
 Collection Date: 6/26/2017 4:33:00 PM

 Lab ID:
 1706G41-002
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	90	30	mg/Kg	20	7/5/2017 11:41:57 PM	32641
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S			Analyst	t: TOM
Diesel Range Organics (DRO)	340	10	mg/Kg	1	7/5/2017 2:29:16 PM	32588
Motor Oil Range Organics (MRO)	350	50	mg/Kg	1	7/5/2017 2:29:16 PM	32588
Surr: DNOP	104	70-130	%Rec	1	7/5/2017 2:29:16 PM	32588
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Surr: BFB	112	54-150	%Rec	1	7/5/2017 1:18:44 PM	32610
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	7/5/2017 1:18:44 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062617-SP-03

 Project:
 2C 14 3 10"
 Collection Date: 6/26/2017 4:40:00 PM

 Lab ID:
 1706G41-003
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	240	30	mg/Kg	20	7/5/2017 11:54:22 PM	32641
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	:: ТОМ
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/5/2017 3:19:11 PM	32588
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/5/2017 3:19:11 PM	32588
Surr: DNOP	81.3	70-130	%Rec	1	7/5/2017 3:19:11 PM	32588
EPA METHOD 8015D: GASOLINE RANG	iΕ				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Surr: BFB	108	54-150	%Rec	1	7/5/2017 2:30:00 PM	32610
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.023	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Toluene	ND	0.047	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Ethylbenzene	ND	0.047	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Xylenes, Total	ND	0.093	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	7/5/2017 2:30:00 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: S-11135250-062617-SP-04

 Project:
 2C 14 3 10"
 Collection Date: 6/26/2017 4:43:00 PM

 Lab ID:
 1706G41-004
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	210	30	mg/Kg	20	7/6/2017 12:54:43 PM	32655
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/5/2017 3:44:14 PM	32588
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/5/2017 3:44:14 PM	32588
Surr: DNOP	73.0	70-130	%Rec	1	7/5/2017 3:44:14 PM	32588
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Surr: BFB	107	54-150	%Rec	1	7/5/2017 2:53:44 PM	32610
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Surr: 4-Bromofluorobenzene	102	66.6-132	%Rec	1	7/5/2017 2:53:44 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-01

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:05:00 PM

 Lab ID:
 1706G41-005
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	60	30	mg/Kg	20	7/6/2017 1:56:45 PM	32655
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	:: TOM
Diesel Range Organics (DRO)	23	9.5	mg/Kg	1	7/6/2017 11:23:32 AM	32588
Motor Oil Range Organics (MRO)	48	48	mg/Kg	1	7/6/2017 11:23:32 AM	32588
Surr: DNOP	90.4	70-130	%Rec	1	7/6/2017 11:23:32 AM	32588
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Surr: BFB	107	54-150	%Rec	1	7/5/2017 3:17:28 PM	32610
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Toluene	ND	0.048	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Ethylbenzene	ND	0.048	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Xylenes, Total	ND	0.096	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	7/5/2017 3:17:28 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1706G41

Date Reported: 7/10/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-02

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:09:00 PM

 Lab ID:
 1706G41-006
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	42	3.0	mg/Kg	2	7/6/2017 2:09:10 PM	32655
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/6/2017 12:39:16 PM	32588
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/6/2017 12:39:16 PM	32588
Surr: DNOP	83.7	70-130	%Rec	1	7/6/2017 12:39:16 PM	32588
EPA METHOD 8015D: GASOLINE RANG	SE .				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Surr: BFB	109	54-150	%Rec	1	7/5/2017 5:15:48 PM	32610
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	7/5/2017 5:15:48 PM	32610

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

- 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 6 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-03

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:15:00 PM

 Lab ID:
 1706G41-007
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	800	30	mg/Kg	20	7/6/2017 2:21:35 PM	32655
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/6/2017 1:07:41 PM	32588
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/6/2017 1:07:41 PM	32588
Surr: DNOP	90.5	70-130	%Rec	1	7/6/2017 1:07:41 PM	32588
EPA METHOD 8015D: GASOLINE RANG	iΕ				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Surr: BFB	107	54-150	%Rec	1	7/5/2017 5:39:31 PM	32610
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Toluene	ND	0.048	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Ethylbenzene	ND	0.048	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Xylenes, Total	ND	0.096	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	7/5/2017 5:39:31 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-04

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:20:00 PM

 Lab ID:
 1706G41-008
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	7/6/2017 2:33:59 PM	32655
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	:: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/7/2017 12:25:27 PM	32588
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/7/2017 12:25:27 PM	32588
Surr: DNOP	79.6	70-130	%Rec	1	7/7/2017 12:25:27 PM	32588
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Surr: BFB	107	54-150	%Rec	1	7/5/2017 6:03:13 PM	32610
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Surr: 4-Bromofluorobenzene	99.8	66.6-132	%Rec	1	7/5/2017 6:03:13 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-05

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:25:00 PM

 Lab ID:
 1706G41-009
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	59	30	mg/Kg	20	7/6/2017 2:46:24 PM	32655
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/7/2017 12:54:02 PM	32588
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/7/2017 12:54:02 PM	32588
Surr: DNOP	75.2	70-130	%Rec	1	7/7/2017 12:54:02 PM	32588
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Surr: BFB	106	54-150	%Rec	1	7/5/2017 6:26:50 PM	32610
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Surr: 4-Bromofluorobenzene	99.6	66.6-132	%Rec	1	7/5/2017 6:26:50 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706G41**

10-Jul-17

Client: GHD

Project: 2C 14 3 10"

Sample ID MB-32655 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 32655 RunNo: 44023

Prep Date: 7/6/2017 Analysis Date: 7/6/2017 SeqNo: 1389461 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-32655 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 32655 RunNo: 44023

Prep Date: 7/6/2017 Analysis Date: 7/6/2017 SeqNo: 1389462 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.3 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

Page 10 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706G41**

10-Jul-17

Client: GHD **Project:** 2C 14 3 10"

Surr: DNOP

Sample ID LCS-32609 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 32609 RunNo: 43982 Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1386463 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 4.7 5.000 93.7 70 130

Sample ID MB-32609 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 32609 RunNo: 43982 Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1386464 Units: %Rec SPK value SPK Ref Val %REC %RPD Analyte Result LowLimit HighLimit **RPDLimit** Qual

106

130

10.00

Sample ID MB-32588 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 32588 RunNo: 43983 Prep Date: Analysis Date: 7/5/2017 SeqNo: 1387024 Units: mg/Kg 6/30/2017 Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Analyte HighLimit Diesel Range Organics (DRO) ND 10 ND Motor Oil Range Organics (MRO) 50 Surr: DNOP 9.9 10.00 99.3 70 130

Sample ID LCS-32588 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 32588 RunNo: 43983 Analysis Date: 7/5/2017 Prep Date: 6/30/2017 SeqNo: 1387357 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) 44 10 50.00 0 88.5 73.2 114 Surr: DNOP 5.000 93.8 70 4.7 130

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 11 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706G41

10-Jul-17

Client: GHD Project: 2C 14 3 10"

Sample ID MB-32610 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 32610 RunNo: 43996

Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1387478 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 1100 105 54 150

Sample ID LCS-32610 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 32610 RunNo: 43996

Analysis Date: 7/5/2017 Prep Date: 7/3/2017 SeqNo: 1387479 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 88.4 76.4 125 Surr: BFB 1200 1000 117 54 150

Sample ID 1706G41-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-11135250-062617-Batch ID: 32610 RunNo: 43996

Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1387486 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 21 23.74 88.7 77.8 128

Surr: BFB 1200 150 949.7 125 54

SampType: MSD Sample ID 1706G41-002AMSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-11135250-062617-Batch ID: 32610 RunNo: 43996

Analysis Date: 7/5/2017 Prep Date: 7/3/2017 SeqNo: 1387487 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 4.7 23.58 86.3 77.8 128 3.41 20 Surr: BFB 1200 943.4 124 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 12 of 13

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706G41

10-Jul-17

Client: GHD Project: 2C 14 3 10"

Sample ID MB-32610 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 32610 RunNo: 43996

Analysis Date: 7/5/2017 Prep Date: 7/3/2017 SeqNo: 1387510 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-32610 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 32610 RunNo: 43996 Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1387511 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit 0.025 1.000 0 120 Benzene 0.86 86.2 80 Toluene 0.85 0.050 1.000 0 85.4 80 120 Ethylbenzene 0.84 0.050 0 84.5 80 1.000 120 Xylenes, Total 2.5 0.10 3.000 0 84.9 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 104 66.6 132

Sample ID 1706G41-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Batch ID: 32610 RunNo: 43996 Client ID: S-11135250-062617-

Prep Date: 7/3/2017	Analysis [Date: 7/	5/2017	S	SeqNo: 1	387517	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.023	0.9390	0	87.4	80.9	132			
Toluene	0.82	0.047	0.9390	0	87.7	79.8	136			
Ethylbenzene	0.83	0.047	0.9390	0	88.6	79.4	140			
Xylenes, Total	2.5	0.094	2.817	0	88.5	78.5	142			
Surr: 4-Bromofluorobenzene	0.98		0.9390		105	66.6	132			

Sample ID 1706G41-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Batch ID: 32610 Client ID: S-11135250-062617-RunNo: 43996

Prep Date: 7/3/2017	Analysis D	ate: 7/	5/2017	SeqNo: 1387518			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9625	0	85.2	80.9	132	0.112	20	
Toluene	0.83	0.048	0.9625	0	85.9	79.8	136	0.379	20	
Ethylbenzene	0.83	0.048	0.9625	0	86.0	79.4	140	0.525	20	
Xylenes, Total	2.5	0.096	2.887	0	86.3	78.5	142	0.0435	20	
Surr: 4-Bromofluorobenzene	1.0		0.9625		104	66.6	132	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

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 13 of 13



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:	1706G41		RcptNo:	1
Received By:	Sophia Campuzano	6/29/2017 9:15:00 AM		Josephie Brigario	,	
Completed By:	Sophia Campuzano	6/30/2017 2:11:59 PM		Josepher Bryan-	-	
Reviewed By:	M w/solv			27 67		
Neviewed by.	IKV (2/30/V					
Chain of Cus	tody					
1. Custody sea	als intact on sample bottle	s?	Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of (Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the	e sample delivered?		Courier			
<u>Log In</u>						
4. Was an atte	empt made to cool the sar	nples?	Yes 🗹	No 🗆	na 🗆	
5. Were all sar	mples received at a tempe	erature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗌	
6. Sample(s) i	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	imple volume for indicated	test(s)?	Yes 🗹	No 🗀		
8. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
9. Was presen	vative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials ha	ave zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any sa	ample containers received	broken?	Yes 🗆	No 🗹	# of preserved	
40 -			🗖	🖂	bottles checked	
	work match bottle labels? pancies on chain of custo	dv)	Yes 🗸	No 🗀	for pH: (<2 c	r >12 unless noted)
	correctly identified on Ch		Yes 🗹	No 🗆	Adjusted?	
_	nat analyses were request	•	Yes 🗹	No 🗆		
	ding times able to be met customer for authorization		Yes 🗸	No 🗆	Checked by:	
	Iling (if applicable) otified of all discrepancies	s with this order?	Yes 🗀	No 🗆	NA 🔽	
;	n Notified:	Date 1				:
By Wh		Via:	∃ eMail □	Phone Tax	☐ In Person	
Regar		VIQ.		Thone rax		1
_	Instructions:					i
17. Additional re						-
18. Cooler Info	ermation					
Cooler N		n Seal Intact Seal No S	Seal Date	Signed By		
1	2.8 Good	Yes				
		::			como en la compansa de	

Air Bubbles (Y or N) **ANALYSIS LABORATORY** HALL ENVIRONMENTAL 300 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. g/100g//1195 20 4901 Hawkins NE - Albuquerque, NM 87109 1 Jospa Sout Fax 505-345-4107 (AOV-ime2) 07S8 www.hallenvironmental.com (AOV) 808S8 *updated por 8081 Pesticides / 8082 PCB's Anions (F,CI,NO3,NO2,PO4,SO4) RCRA 8 Metals Tel. 505-345-3975 (SMIS 0728 to 0168) e'HAC EDB (Method 504.1) (1.814 bodieM) H9T ORM \ ORO \ ORD) Baros Hat Remarks: BTEX + MTBE + TPH (Gas only) BTEX + MTBE + TMB's (8021) 220 5915 70664 HEAL No. 1000 2008 -009 700--005 **700**-1003 Project Manager: Down's Ch 700-06 (29(17 100 -Steven HERZ Sample Temperature: 2.8 Preservative □ Rush 11135250 しんしいなか J. A. Tum-Around Time: Project Name: Container Type and # 区 Standard 113728-0626728-01 Pacles-1 Sampler: On Ice: Received 5/ Project #: 7113525D-0627729 50-18-11-18-11-18-11-18-03 H175758-062717-5P02 741135250-0272717-5³-03 70-35-062811-36-05 571135252-0626 TAPOY -11135250-062717-5/20/ 10-15-71250-05255111-Sample Request ID □ Level 4 (Full Validation) Chain-of-Custody Record email or Fax#: パパルのパング・シューシュング THIN-415-WOLNEGENE □ Other Matrix Mailing Address: 6/12 If necessary, samply Time Wed17 190 250 QA/QC Package: 630 523 🗆 ЕDD (Туре) 75 Accreditation □ Standard O NELAP Date Client



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

September 18, 2017

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

FAX

RE: 2C 14 OrderNo.: 1709709

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/12/2017 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 www.hallenvironmental.com 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

DF Date Analyzed

Batch ID

Lab Order: 1709709

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/18/2017

CLIENT: GHD Lab Order: 1709709

Project: 2C 14

Lab ID: 1709709-001 **Collection Date:** 9/7/2017 10:10:00 AM

Client Sample ID: S-11135250-01-090717-MG-TP-16-6" **Matrix:** SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride ND 30 mg/Kg 20 9/15/2017 8:08:19 PM 33876

Lab ID: 1709709-002 **Collection Date:** 9/7/2017 10:45:00 AM

Client Sample ID: S-11135250-01-090717-MG-TP-17-2' Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 100
 30
 mg/Kg
 20
 9/15/2017 8:20:44 PM
 33876

Lab ID: 1709709-003 **Collection Date:** 9/7/2017 11:15:00 AM

Client Sample ID: S-11135250-01-090717-MG-TP-18-2' Matrix: SOIL

Result

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 40
 30
 mg/Kg
 20
 9/15/2017 8:33:08 PM
 33876

PQL Qual Units

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

Qualifiers:

Analyses

- * 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 2
- 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#: 1709709

18-Sep-17

Client: GHD Project: 2C 14

Sample ID MB-33876 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 33876 RunNo: 45653

Prep Date: 9/14/2017 Analysis Date: 9/15/2017 SeqNo: 1450182 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-33876 SampType: Ics TestCode: EPA Method 300.0: Anions

Batch ID: 33876 Client ID: LCSS RunNo: 45653

Prep Date: 9/14/2017 Analysis Date: 9/15/2017 SeqNo: 1450183 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.6 110

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
- **PQL** 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 Sample pH Not In Range RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: GHD		Work Order Number:	170970)9		RcptNo:	1
Received By: Erin N	Melendrez	9/12/2017 10:15:00 Aft	v I	U	us	-	
·	y Gallegos	9/13/2017 3:23:05 PM		A	NS. Z		
	1 ,			24	7		
Reviewed By: 872	e 09/19/1	/					
Chain of Custody		•					
1. Custody seals intact	on sample bottles?		Yes	1	No 🗆	Not Present	
2. Is Chain of Custody			Yes	7	No 🗆	Not Present	
3. How was the sample	e delivered?		Courie	<u>er</u>			
<u>Log In</u>							
4. Was an attempt ma	de to cool the samples?		Yes	✓	No 🗆	na 🗆	
5. Were all samples re-	ceived at a temperature	of >0° C to 6.0°C	Yes [✓ N	lo 🗆	NA 🗆	
6. Sample(s) in proper	container(s)?		Yes	✓	No 🗆		
7. Sufficient sample vo	lume for indicated test(s	s)?	Yes	✓ !	No 🗆		
8. Are samples (except	VOA and ONG) proper	ly preserved?	Yes	7 :	No 🗆		
9. Was preservative ad	ided to bottles?		Yes	ı	No 🔽	NA 🗆	
10.VOA vials have zero	headspace?		Yes	ı	No 🗌	No VOA Vials 🗹	
11. Were any sample co	ontainers received broke	en?	Yes		No 🗹		
				_		# of preserved bottles checked	
12. Does paperwork ma			Yes	✓	No ∐	for pH: (<2 o	r >12 unless noted)
(Note discrepancies 13. Are matrices correct		Custody?	Yes		No 🗆	Adjusted?	
14. Is it clear what analy				—	No 🗆		
15. Were all holding time			Yes	✓ I	No 🗆	Checked by:	
(If no, notify custome	er for authorization.)					<u> </u>	
Special Han <u>dling (i</u>	f annlicable)						
16. Was client notified o		this order?	Yes		No 🗆	NA 🗹	
Person Notifie	d:	Date	A RECORD AND ADDRESS OF THE PARTY OF THE PAR				
By Whom:		Via:	☐ eMai	il 🔲 Phone	☐ Fax	☐ In Person	
Regarding:					***	is a consequent of the control of the Consequent	
Client Instructi	ons:	Mil Mil Mil Market was and dealers of the enterior and the office the enterior and other analysis designed					j
17. Additional remarks:							
18. Cooler Information	1						
Cooler No Ten	np ºC Condition Se		Seal Da	te Signe	ed By		
1 5.1	Good Ye	3					

Sample Request ID Type and # Type Sample Request ID Type and # Ty	Rush Rush Sock Senative Type Type O O O O O O O O O O O O O	17 MS	A TO SE SOLIDOR (F,CI,NO2,1O4,5O4,5O4)	8081 Pesticides / 8082 PCB's & 8082 PCB's
Bockisch C-01 C-01 Bockisch Type Type Type Type Type Date Time Date Time Date Time Date Time Date Time Date Time	1 1/4 1709 0001 0001 0002 0002 0003 7 08%		(%)	A Bug Let A Bug
Bereative HEAL No. Cockitsch Cockitsch Type Type Type Date Time Rema	7 1 No BTEX + MTBE + TMB's (8021)	RTEX + MTBE + TMB's (8021) 8 15	N S S S S S S S S S	RCRA 8 Metals Analysis R Analysis R Analysis R Analysis R Analysis R
Pare Time	RTEX + MTBE + TMB's (8021) RTEX + MTBE + TMB's (8021) REACH (Method 418.1) REACH (Method 418.1)	TPH (Method 418.1)		SIS Signal Control of



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

February 26, 2018

Bernie Bockisch GHD 6121 Indian School Road, NE #200

Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: 2C14 OrderNo.: 1802935

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 11 sample(s) on 2/16/2018 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 www.hallenvironmental.com 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: 1802935

Date Reported: 2/26/2018

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1802935

CLIENT: GHD Project: 2C14

Lab ID: 1802935-001 **Collection Date:** 2/13/2018 12:55:00 PM

Client Sample ID: S1135250-01-021318-JP-TP-19-8 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	590	30	mg/Kg	20	2/22/2018 11:31:00	O AM 36659
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	;			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/20/2018 12:43:3	1 PM 36598
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	2/20/2018 12:43:3	1 PM 36598
Surr: DNOP	99.9	70-130	%Rec	1	2/20/2018 12:43:3	1 PM 36598
EPA METHOD 8015D: GASOLINE RA	NGE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/19/2018 1:17:45	PM 36571
Surr: BFB	86.9	15-316	%Rec	1	2/19/2018 1:17:45	PM 36571

Lab ID: 1802935-002 **Collection Date:** 2/13/2018 1:50:00 PM

Client Sample ID: S1135250-01-021318-JP-TP-20-8 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	llyst: CJS
Chloride	950	30	mg/Kg	20	2/22/2018 12:08:13	PM 36659
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Ana	lyst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/20/2018 1:08:01	PM 36598
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/20/2018 1:08:01	PM 36598
Surr: DNOP	91.5	70-130	%Rec	1	2/20/2018 1:08:01	PM 36598
EPA METHOD 8015D: GASOLINE RANG	GE				Ana	ılyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/19/2018 1:41:24	PM 36571
Surr: BFB	86.2	15-316	%Rec	1	2/19/2018 1:41:24	PM 36571

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

Lab Order: 1802935

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/26/2018

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-003 **Collection Date:** 2/14/2018 1:45:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-21 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	260	30	mg/Kg	20	2/22/2018 12:20:37	7 PM 36659
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	}			Ana	alyst: TOM
Diesel Range Organics (DRO)	98	10	mg/Kg	1	2/20/2018 4:48:28	PM 36598
Motor Oil Range Organics (MRO)	190	51	mg/Kg	1	2/20/2018 4:48:28	PM 36598
Surr: DNOP	85.6	70-130	%Rec	1	2/20/2018 4:48:28	PM 36598
EPA METHOD 8015D: GASOLINE RANG	E				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/19/2018 2:05:08	PM 36571
Surr: BFB	83.7	15-316	%Rec	1	2/19/2018 2:05:08	PM 36571

Lab ID: 1802935-004 **Collection Date:** 2/14/2018 1:48:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-23 Matrix: MEOH (SOIL)

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	1700	75	mg/Kg	50	2/16/2018 12:27:40	PM 36567
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Ana	alyst: AG
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/16/2018 1:02:36	PM s49191
Surr: BFB	122	70-130	%Rec	1	2/16/2018 1:02:36	PM s49191
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	}			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/16/2018 11:13:56	6 AM 36561
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/16/2018 11:13:56	6 AM 36561
Surr: DNOP	97.6	70-130	%Rec	1	2/16/2018 11:13:56	6 AM 36561

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
- 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
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order: 1802935

Date Reported: 2/26/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-005 **Collection Date:** 2/14/2018 1:50:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-24 Matrix: MEOH (SOIL)

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	150	30	mg/Kg	20	2/16/2018 11:50:23	7 AM 36567
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Ana	alyst: AG
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/16/2018 1:25:26	PM s49191
Surr: BFB	123	70-130	%Rec	1	2/16/2018 1:25:26	PM s49191
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Ana	alyst: TOM
Diesel Range Organics (DRO)	18	9.9	mg/Kg	1	2/16/2018 11:36:03	3 AM 36561
Motor Oil Range Organics (MRO)	54	49	mg/Kg	1	2/16/2018 11:36:03	3 AM 36561
Surr: DNOP	102	70-130	%Rec	1	2/16/2018 11:36:03	3 AM 36561

Lab ID: 1802935-006 **Collection Date:** 2/14/2018 1:52:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-25 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	120	30	mg/Kg	20	2/22/2018 12:33:02	2 PM 36659
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	}			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/20/2018 5:37:14	PM 36598
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/20/2018 5:37:14	PM 36598
Surr: DNOP	88.4	70-130	%Rec	1	2/20/2018 5:37:14	PM 36598
EPA METHOD 8015D: GASOLINE RA	ANGE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/19/2018 2:28:55	PM 36571
Surr: BFB	85.4	15-316	%Rec	1	2/19/2018 2:28:55	PM 36571

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

Lab Order: 1802935

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/26/2018

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-007 **Collection Date:** 2/14/2018 1:55:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-27 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	240	30	mg/Kg	20	2/22/2018 12:45:27	7 PM 36659
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	3			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/20/2018 2:45:53	PM 36598
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/20/2018 2:45:53	PM 36598
Surr: DNOP	89.0	70-130	%Rec	1	2/20/2018 2:45:53	PM 36598
EPA METHOD 8015D: GASOLINE RANG	SE .				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/19/2018 2:52:40	PM 36571
Surr: BFB	86.4	15-316	%Rec	1	2/19/2018 2:52:40	PM 36571

Lab ID: 1802935-008 **Collection Date:** 2/14/2018 2:00:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-28 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	650	30	mg/Kg	20	2/22/2018 12:57:51	1 PM 36659
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/20/2018 3:10:29	PM 36598
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/20/2018 3:10:29	PM 36598
Surr: DNOP	78.1	70-130	%Rec	1	2/20/2018 3:10:29	PM 36598
EPA METHOD 8015D: GASOLINE RAN	GE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/19/2018 4:50:57	PM 36571
Surr: BFB	86.2	15-316	%Rec	1	2/19/2018 4:50:57	PM 36571

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 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: 1802935

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/26/2018

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-009 **Collection Date:** 2/14/2018 2:02:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-29 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	630	30	mg/Kg	20	2/22/2018 1:10:16	PM 36659
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	}			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/20/2018 3:34:54	PM 36598
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/20/2018 3:34:54	PM 36598
Surr: DNOP	72.9	70-130	%Rec	1	2/20/2018 3:34:54	PM 36598
EPA METHOD 8015D: GASOLINE RAN	GE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/19/2018 5:14:21	PM 36571
Surr: BFB	89.4	15-316	%Rec	1	2/19/2018 5:14:21	PM 36571

Lab ID: 1802935-010 **Collection Date:** 2/14/2018 2:05:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-30 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	410	30	mg/Kg	20	2/22/2018 1:22:40	PM 36659
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/20/2018 3:59:41	PM 36598
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/20/2018 3:59:41	PM 36598
Surr: DNOP	82.8	70-130	%Rec	1	2/20/2018 3:59:41	PM 36598
EPA METHOD 8015D: GASOLINE RAI	NGE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/19/2018 5:37:56	PM 36571
Surr: BFB	89.7	15-316	%Rec	1	2/19/2018 5:37:56	PM 36571

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

Lab Order: 1802935

Date Reported: 2/26/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-011 **Collection Date:** 2/15/2018 11:52:00 AM

Client Sample ID: S1135250-01-021518-MG-TP-32 Matrix: SOIL

Cheff Sample 1D. 31133230-01-021316	-WIO-11-32		IVIA	IIIX. SO	IL.	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	270	30	mg/Kg	20	2/22/2018 1:59:55	PM 36659
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Ana	alyst: TOM
Diesel Range Organics (DRO)	34	9.4	mg/Kg	1	2/20/2018 4:24:04	PM 36598
Motor Oil Range Organics (MRO)	69	47	mg/Kg	1	2/20/2018 4:24:04	PM 36598
Surr: DNOP	70.4	70-130	%Rec	1	2/20/2018 4:24:04	PM 36598
EPA METHOD 8015D: GASOLINE RANG	E				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/19/2018 6:01:28	PM 36571
Surr: BFB	88.3	15-316	%Rec	1	2/19/2018 6:01:28	PM 36571

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 6 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#: 1802935

26-Feb-18

Client: GHD Project: 2C14

Sample ID MB-36567 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 36567 RunNo: 49185

Prep Date: 2/16/2018 Analysis Date: 2/16/2018 SeqNo: 1587341 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-36567 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36567 RunNo: 49185

Prep Date: 2/16/2018 Analysis Date: 2/16/2018 SeqNo: 1587342 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.2 110

Sample ID MB-36659 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 36659 RunNo: 49283

Prep Date: Analysis Date: 2/22/2018 SeqNo: 1591817 Units: mg/Kg 2/21/2018

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

Chloride ND 1.5

Sample ID LCS-36659 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36659 RunNo: 49283

Prep Date: 2/21/2018 Analysis Date: 2/22/2018 SeqNo: 1591818 Units: mg/Kg

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

95.1 Chloride 14 1.5 15.00 0 90 110

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

Е Value above quantitation range

J Analyte detected below quantitation limits

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P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1802935

26-Feb-18

Client:	GHD
Project:	2C14

Sample ID LCS-36561	SampType: LCS		Test	Code: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 3656	1	R	unNo: 49	9187				
Prep Date: 2/16/2018	Analysis Date: 2/16	/2018	S	eqNo: 1	586297	Units: mg/K	g		
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44 10	50.00	0	88.1	70	130			
Surr: DNOP	4.2	5.000		84.3	70	130			
Sample ID MB-36561	SampType: MBLI	K	Test	Code: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 3656	1	R	unNo: 49	9187				
Prep Date: 2/16/2018	Analysis Date: 2/16	/2018	S	eqNo: 1	586298	Units: mg/K	g		
Analyte	Result PQL S	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	9.8	10.00		98.5	70	130			
Sample ID LCS-36598	SampType: LCS		Test	Code: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	• •								
Oliotic ID. LOGO	Batch ID: 36598 RunNo: 49233 Analysis Date: 2/20/2018 SeqNo: 1588512 Units: mg/Kg								
Prep Date: 2/19/2018	Batch ID: 36598 Analysis Date: 2/20		s	eqNo: 1	588512	Units: mg/K	g		
	Analysis Date: 2/20	/2018	S SPK Ref Val	·	588512 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Prep Date: 2/19/2018 Analyte	Analysis Date: 2/20	/2018		·		J	•	RPDLimit	Qual
Prep Date: 2/19/2018 Analyte	Analysis Date: 2/20, Result PQL S	//2018 SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	•	RPDLimit	Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO)	Analysis Date: 2/20, Result PQL S 47 10	50.00 5.000	SPK Ref Val 0	%REC 93.3 90.7	LowLimit 70 70	HighLimit	%RPD		Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP	Analysis Date: 2/20, Result PQL S 47 10 4.5	50.00 5.000	SPK Ref Val 0 Test	%REC 93.3 90.7	LowLimit 70 70 PA Method	HighLimit 130 130	%RPD		Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-36598	Analysis Date: 2/20 Result PQL S 47 10 4.5 SampType: MBLI	50.00 5.000 K	SPK Ref Val 0 Test	%REC 93.3 90.7 Code: El	70 70 PA Method	HighLimit 130 130	%RPD		Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-36598 Client ID: PBS Prep Date: 2/19/2018 Analyte	Analysis Date: 2/20, Result PQL S 47 10 4.5 SampType: MBLI Batch ID: 36596 Analysis Date: 2/20,	50.00 5.000 K 8	SPK Ref Val 0 Test	%REC 93.3 90.7 Code: EF unNo: 49 eqNo: 19	70 70 PA Method	HighLimit 130 130 8015M/D: Die	%RPD		Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-36598 Client ID: PBS Prep Date: 2/19/2018	Analysis Date: 2/20, Result PQL S 47 10 4.5 SampType: MBLI Batch ID: 36596 Analysis Date: 2/20,	50.00 5.000 K 8	SPK Ref Val 0 Test R S	%REC 93.3 90.7 Code: EF unNo: 49 eqNo: 19	20 LowLimit 70 70 70 PA Method 9233 588513	HighLimit 130 130 8015M/D: Die Units: mg/K	%RPD	e Organics	
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-36598 Client ID: PBS Prep Date: 2/19/2018 Analyte	Analysis Date: 2/20 Result PQL S 47 10 4.5 SampType: MBLI Batch ID: 36596 Analysis Date: 2/20 Result PQL S	50.00 5.000 K 8	SPK Ref Val 0 Test R S	%REC 93.3 90.7 Code: EF unNo: 49 eqNo: 19	20 LowLimit 70 70 70 PA Method 9233 588513	HighLimit 130 130 8015M/D: Die Units: mg/K	%RPD	e Organics	

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
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1802935**

26-Feb-18

Client: GHD Project: 2C14

Sample ID MB-36571 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 36571 RunNo: 49215

Prep Date: 2/16/2018 Analysis Date: 2/19/2018 SeqNo: 1587995 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 870 1000 86.6 15 316

Sample ID LCS-36571 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 36571 RunNo: 49215

Prep Date: 2/16/2018 Analysis Date: 2/19/2018 SeqNo: 1587996 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 29
 5.0
 25.00
 0
 115
 75.9
 131

 Surr: BFB
 960
 1000
 95.5
 15
 316

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#: 1802935

26-Feb-18

Client: GHD Project: 2C14

Surr: BFB

Sample ID rb SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **PBS** Batch ID: s49191 RunNo: 49191

Prep Date: Analysis Date: 2/16/2018 SeqNo: 1586433 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 570 500.0 113 70 130

TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID 2.5ug gro Ics SampType: LCS

Client ID: LCSS Batch ID: s49191 RunNo: 49191

530

Prep Date: Analysis Date: 2/16/2018 SeqNo: 1586436 Units: mg/Kg

500.0

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 99.6 70 130

107

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

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

GHD Client Name: Work Order Number: 1802935 RcptNo: 1 Received By: Sophia Campuzano 2/16/2018 9:30:00 AM anne Am **Anne Thorne** 2/16/2018 9:50:28 AM Completed By: 21/6/13 Reviewed By: Chain of Custody No 🗌 Yes 🔽 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In NA 🗆 No 🔲 Was an attempt made to cool the samples? Yes 🔽 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 Yes 🗸 No 🗌 5. Sample(s) in proper container(s)? Yes 🔽 No 🗌 6 Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No Yes 🗌 No 🔽 NA 🗌 8. Was preservative added to bottles? Yes No 🗌 No VOA Vials 9. VOA vials have zero headspace? Yes 🗌 No 🗸 10. Were any sample containers received broken? # of preserved bottles checked No 🗔 11. Does paperwork match bottle labels? Yes 🗸 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? No 13. Is it clear what analyses were requested? Yes 🗸 No 🗔 Checked by: 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🔽 15. Was client notified of all discrepancies with this order? Yes 🗔 No 🗀 Person Notified: Date: By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition | Seal Intact | Seal No Seal Date Signed By 1.0 Good

Client	540		و بن ع	□ Standard	□ Rush				I	A N	۲ ا ۲	NV	X -	Z	ME	HALL ENVIRONMENTAL	A à
				Project Name:	di		18	B	(3	www	www hallenvironmental com	inonin	office	1	2	2	2
Mailing	Mailing Address: 612.		Indian School RA WE	20	Ŧ		-9	4901 Hawkins NE	awkir	S NE		enbno	Albuquerque, NM 87109	NM 8	7109		
Suite Phone	200 A	188 (3	Project #.	10 - 05			Tel. 505-345-3975	5-34	5-397	4	sax 5	Fax 505-345-4107 Analysis Request	5-41 ist	20		
email o	r Fax#.	Berna	email or Fax#. Bernard. Bock Sch Cald God Project Manager.	Project Mana	ger:		_			-	-	(10	H	H			
QA/QC Packa □ Standard	QA/QC Psckage: □ Standard		Level 4 (Full Validation)	Bern	ry	Bochisch				19/46	(mair	DS, ₆ Oq	bcB,2				
Accreditation	itation	1		Sampler: 58,	P.MG			*****	-		10.	NOS	2808			00	
O NELAP	AP	□ Other		On Ice:	X Yes	□ No	-	-	_		_	1, _E C	3 / 5	(A	3.0	5	
□ EDD (Type)	(Type)			Sample Temperature:	perature: 1.0			1	_	_	_	N'K		***		3	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MT	82108 HGT	ortieM) H9T	EDB (Metho	FAH s (83) RCRA 8 Me	D, 4) anoinA	oto gosca	OV) 80828 im92) 0728		61201A2	Неу
2-13-8	1255	1:05	5-11135250-01-021318-19-7F-R-18 glus Sactor	Shars Sacker	ICE	02		X	-							X	
2-13-18	1350	- -	5-1113550-01-02135-3P-7P-20-8 401 6-1655 Jac	401 Glass Jac	371	702		X								X	
2/14/18	345	S	5・112526-ひ-021年8州七下71	4		502		X								X	
	1348		STUBSIC OF CAMIS METP-23	Mak Lit	MORUM	102		X		-						X	~
= 0	135 to		SWISSIS-OF COLHIELIGHTS- 24 MUGHET	Musky		25		X							1	X	
	1352		5-1185256-61-021418-416-TP-25			de		X								X	
	1355		STHISSSON OF GAMES ME-TF. 27			102		X							•	X	
	1466		5-1135-36-01-021418,116-TP-28			10%		X						9		X	
	1402		S-1135350 BY CRIHIBME TP-29			52		X					-	4		X	
	5941		S-47-31-10-10-05-05-05-05-05-05-05-05-05-05-05-05-05			200		X								X	
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Date ()		Relinging	West of the state	Received by:	Courie	CELICITY Q430	4	6	analysis	1		3	results	0	7	2/5	30



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

May 02, 2018

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

FAX

RE: 2C-14-3 OrderNo.: 1804D62

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/27/2018 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 www.hallenvironmental.com 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: **1804D62**Date Reported: **5/2/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1804D62

Project: 2C-14-3

Lab ID: 1804D62-001 **Collection Date:** 4/25/2018 1:32:00 PM

Client Sample ID: S-11135250-1-42518-BB-TP33 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	2000	75	mg/Kg	50	5/1/2018 11:54:58	AM 37867
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Ana	alyst: TOM
Diesel Range Organics (DRO)	13	10	mg/Kg	1	5/1/2018 10:50:37	AM 37865
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/1/2018 10:50:37	AM 37865
Surr: DNOP	71.6	70-130	%Rec	1	5/1/2018 10:50:37	AM 37865
EPA METHOD 8015D: GASOLINE RANG	iΕ				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/30/2018 12:49:40	PM 37835
Surr: BFB	92.2	15-316	%Rec	1	4/30/2018 12:49:40	PM 37835

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

- 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804D62**

02-May-18

Client: GHD Project: 2C-14-3

Sample ID MB-37867 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 37867 RunNo: 50935

Prep Date: 4/30/2018 Analysis Date: 5/1/2018 SeqNo: 1653639 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-37867 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37867 RunNo: 50935

Prep Date: 4/30/2018 Analysis Date: 5/1/2018 SeqNo: 1653640 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 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

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: 1804D62

02-May-18

Client: GHD Project: 2C-14-3

Sample ID LCS-37865 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics LCSS Client ID: Batch ID: 37865 RunNo: 50940 Prep Date: 4/30/2018 Analysis Date: 5/1/2018 SeqNo: 1654117 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 44 50.00 0 87.6 70 130 Surr: DNOP 5.000 78.0 70 3.9 130

Sample ID MB-37865 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 37865 Client ID: PBS RunNo: 50940 Prep Date: 4/30/2018 Analysis Date: 5/1/2018 SeqNo: 1654118 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 8.2 10.00 82.1 70 130

Qualifiers:

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

Page 3 of 4

GHD

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804D62**

02-May-18

Sample ID MB-37835 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range RunNo: 50929	Project:	2C-14-3										
Prep Date 4/27/2018	Sample ID	MB-37835	SampType	e: ME	BLK	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte	Client ID:	PBS	Batch ID): 37	835	R	unNo: 50	0929				
Sample D	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653363	Units: mg/K	(g		
Sample ID LCS-37835 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Papel ID LCS-37835 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Papel ID LCS-37835 SampType: LCS SagNt Sag	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample D LCS-37835 Samp F LC S Samp F LC Samp F LC	_	ge Organics (GRO)	ND	5.0								
Client ID: LCSS	Surr: BFB		950		1000		94.9	15	316			
Prep Date:	Sample ID	LCS-37835	SampType	e: LC	s	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte	Client ID:	LCSS	Batch ID): 37	835	R	unNo: 50	0929				
Sample D	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653364	Units: mg/K	(g		
Sample ID 1804D62-001AMS Sample ID 1804D62-001AMSD	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample D 1804D62-001AMS	_	ge Organics (GRO)	_	5.0	25.00	0						
Client ID: S-11135250-1-42518 Batch ID: 37835 RunNo: 50929 SeqNo: 1653368 Units: mg/Kg	Surr: BFB		1100		1000		107	15	316			
Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653368 Units: mg/Kg	Sample ID	1804D62-001AMS	SampType	e: MS	3	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte	Client ID:	S-11135250-1-425	18 Batch ID): 37	835	R	unNo: 50	0929				
Gasoline Range Organics (GRO) 26 5.0 24.88 0 104 77.8 128 Surr: BFB 1000 995.0 105 15 316 Sample ID 1804062-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: S-11135250-1-42518 Batch ID: 37835 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653369 Units: mg/kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit MRPD RPDLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.41 0 98.5 77.8 128 6.94 20 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-37842	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653368	Units: mg/K	ζg		
Sumr: BFB 1000 995.0 105 15 316 Sample ID 1804D62-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: S-11135250-1-42518 Batch ID: 37835 RunNo: 50929 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.41 0 98.5 77.8 128 6.94 20 Surr: BFB 1000 976.6 104 15 316 0 0 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID 1804D62-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: \$-11135250-1-42518 Batch ID: 37835 RunNo: \$0929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653369 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.41 0 98.5 77.8 128 6.94 20 Sumr: BFB 1000 976.6 104 15 316 0 0 0 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range RunNo: 50929 50929 Fee Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec RunNo: 50929 Fee Date: 4/27/2018	_	ge Organics (GRO)		5.0		0						
Client ID: S-11135250-1-42518 Batch ID: 37835 RunNo: 50929	Surr: BFB		1000		995.0		105	15	316			
Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653369 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.41 0 98.5 77.8 128 6.94 20 Surr: BFB 1000 976.6 104 15 316 0 0 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 37842 RunNo: 50929 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 <	Sample ID	1804D62-001AMS	D SampType	e: MS	SD	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte	Client ID:	S-11135250-1-425	18 Batch ID): 37	835	R	unNo: 50	0929				
Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653369	Units: mg/K	(g		
Surr: BFB 1000 976.6 104 15 316 0 0 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316 TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual			Result F	PQL	SPK value	SPK Ref Val	%REC		HighLimit	%RPD	RPDLimit	Qual
Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316 316 Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	_	ge Organics (GRO)		4.9		0			-			
Client ID: PBS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316 TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Surr: BFB		1000		976.6		104	15	316	0	0	
Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316 <td>Sample ID</td> <td>MB-37842</td> <td>SampType</td> <td>e: ME</td> <td>BLK</td> <td>Tes</td> <td>Code: El</td> <td>PA Method</td> <td>8015D: Gaso</td> <td>line Rang</td> <td>е</td> <td></td>	Sample ID	MB-37842	SampType	e: ME	BLK	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316<	Client ID:	PBS	Batch ID): 37	842	R	unNo: 50	0929				
Surr: BFB 880 1000 87.7 15 316 Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653372	Units: %Re	C		
Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Surr: BFB		880		1000		87.7	15	316			
Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Sample ID	LCS-37842	SampType	e: LC	s	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Client ID:	LCSS	Batch ID): 37 8	842	R	unNo: 50	0929				
·	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653373	Units: %Red	C		
	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Surr: BFB		1100		1000		106	15				

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

D. Consulta III Not In Donos

Page 4 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 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: GHD	Work Order Numb	er: 1804D62		RcptNo:	1
Description Description			11 1111		•
Received By: Erin Melendrez	4/27/2018 9:00:00 A	į.	minu q	7	
Completed By: Michelle Garcia	4/27/2018 9:23:08 A	.M	Mirel 9	arus	
Reviewed By:	والعاله	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
MW 4/27/18					
Chain of Custody	and the second second				
1. Is Chain of Custody complete?		Yes 🗸	No 🗆	Not Present	
2. How was the sample delivered?		Courier			
Log In				W.	
3. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗆	NA \square	
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
6. Sufficient sample volume for indicated test	t(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials ✓	
10. Were any sample containers received bro	ken?	Yes	No 🗹		
				# of preserved bottles checked \ ,	1/8
11. Does paperwork match bottle labels?		Yes 🗹	No 🗆	for pH:	
(Note discrepancies on chain of custody)		u 🗖	N	10 (S) OF	>12 unless noted)
2. Are matrices correctly identified on Chain of 3. Is it clear what analyses were requested?	of Custody?	Yes ✔ Yes ✔	No □ │	The same of the sa	
14. Were all holding times able to be met?		res 🛂 Yesi 🗸	No 🗆	Checked by:	
(If no, notify customer for authorization.)				·	
Special Handling (if applicable)					
15. Was client notified of all discrepancies wit	h this order?	Yes 🗌	No 🗀	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail P	hone Fax	☐ In Person	
Regarding:					
Client Instructions:			***************************************		
16. Additional remarks:		. ,		<u> </u>	•
17. <u>Cooler Information</u>					
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Chain-of-Custody Record	CAD SECURCES TAIC.		Mailing Address:		Phone #: 56-684-067	email or Fax#: 1352~44D, Bourschole M. Project Manag	QA/QC Package:	ation	4	□ EDD (Type)		Time	(33)											Time: 4:58	Time:	If necessary sapples 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
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