



APPROVED

By Olivia Yu at 11:50 am, Jan 05, 2018

November 8, 2016

Reference No. 11121222

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

**NMOCD approves
1RP-4190 for closure.**

Amber Groves
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88260

Dear Ms. Lynch and Ms. Groves:

**Re: Assessment Report and Closure Request
Lomas Rojas 26 #703 Release
RP# 1RP-4190
Unit B, Section 26, Township 25-S, Range 33-E
Latitude: N 32.10666, Longitude: W 103.5405
Lea County, New Mexico**

The Lomas Rojas 26 #703 site (hereafter referred to as the "Site"), is a wellsite located approximately 20 miles west of Jal in Lea County, New Mexico (see Figure 1). It is located in Unit B, Section 26, Township 25 South, Range 33 East. Both the land and minerals at the Site are owned by the State of New Mexico.

The line and well are owned by EOG Resources, Inc. (EOG). According to EOG personnel, a contractor moving flow lines across the pasture encountered a 6-inch riser and caused damage to it. The damage to the riser resulted in a release of approximately 300 barrels (bbls) of produced water. A vacuum truck was mobilized to the Site and approximately 120 bbls of fluids were recovered. A backhoe was present and was used to contain the spread of the release.

The contractor, Dubose Drilling, Inc., and GHD performed assessment and remediation of the site. The approximate release boundary is depicted on Figure 2. A Form C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) and remediation permit number 1RP-4190 was assigned.

On April 20, 2016 a work plan outlining the remedial approach discussed in this report was submitted to the NMOCD and the New Mexico State Land Office (NMSLO) for approval. Approval of the work scope was received from the NMOCD on April 21, 2016 and from the NMSLO on April 22, 2016 (See attached). With the approval of the work scope from the NMSLO, a revegetation plan was requested.

GHD Services Inc.

6121 Indian School Road NE Suite 200 Albuquerque New Mexico 87110 USA
T 505 884 0672 F 505 884 4932 W www.ghd.com

GHD completed the revegetation plan and approval of the plan was received from the NMSLO on May 25, 2016 (See attached).

1. Introduction

There are relatively few groundwater wells in the area of the Site with which to obtain a depth to groundwater. According to the NMOCD Oil and Gas Map, the depth to groundwater in the vicinity of the Site is estimated to be approximately 110 feet below ground surface (bgs). This is based on the closest well that is located approximately 0.82 miles southwest of the Site. There are no surface water bodies within 200 to 1,000 feet of the Site. There are no well head protection areas in the vicinity of the Site. Therefore, the preliminary ranking score, in accordance with ranking criteria outlined in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (NMOCD, 1993), is zero (0).

Based on this score, the Site-specific Recommended Remediation Action Limits (RRALs) to be applied by the NMOCD are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total benzene, toluene, ethylbenzene, and xylene (BTEX), 5,000 mg/kg for total petroleum hydrocarbons (TPH), and 500 mg/kg for chloride.

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (> 100 ft bgs)	0
Wellhead Protection Area (> 1000 ft from water source, > 200 ft from domestic source)	0
Distance to Surface Body Water (> 1000 ft)	0
Ranking Criteria Total Score	0*
*Because the ranking criteria total score is 10, NMOCD established RRALs are 10 mg/kg for benzene, 50 mg/kg for total BTEX, 1,000 mg/kg for TPH ¹ , and 500 mg/kg for chlorides.	

1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993

2. Assessment Activities

An initial assessment of the site was performed on March 15, 2016. During the initial assessment it was determined there were two buried lines at the site. A gas line is located on the south side of the site and a produced water line is located on the north side of the site (Figure 2). Both of the lines are buried approximately 2.5 to 4 ft bgs and are located approximately 15 feet apart. Both lines were potholed with a hydrovac and the depth and location has been assessed.

Soil samples were collected during the initial assessment. The soil samples were analyzed by Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico for BTEX by EPA Method 8021, TPH, diesel range organics (DRO) and gasoline range organics (GRO) by EPA Method 8015, and chlorides by EPA Method 300.0. See the attached laboratory analytical report.

Following the initial assessment excavation and further soil sampling was performed between March 22 and March 24, 2016. The analytical data obtained from the soil samples indicated that the

horizontal and vertical extent of chloride concentrations had been delineated to below the RRAL with the exception of the sample on the east edge of the release with a result of 760 mg/kg for chloride at 10 feet bgs. The results of the soil analytical data can be referenced on Figure 2. The associated analytical reports are attached to this report.

3. Summary and Recommendations

Based on the assessment of the petroleum hydrocarbon and chloride concentrations, GHD recommended the following:

- Placement of a 20 mil polyethylene liner in the bottom of the excavation at a depth of 4.5 to 5 ft bgs.
- Backfilling of the excavation with clean fill material and wheel compacting to grade.
- Fertilizing and reseeding of the disturbed area with a BLM-approved seed mix.

As of the date of this report the above remedial activities have been completed and are documented in the attached completion photographs and final C-141 form. On behalf of EOG, GHD requests no further action status be granted for the Site.

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

Sincerely,

GHD

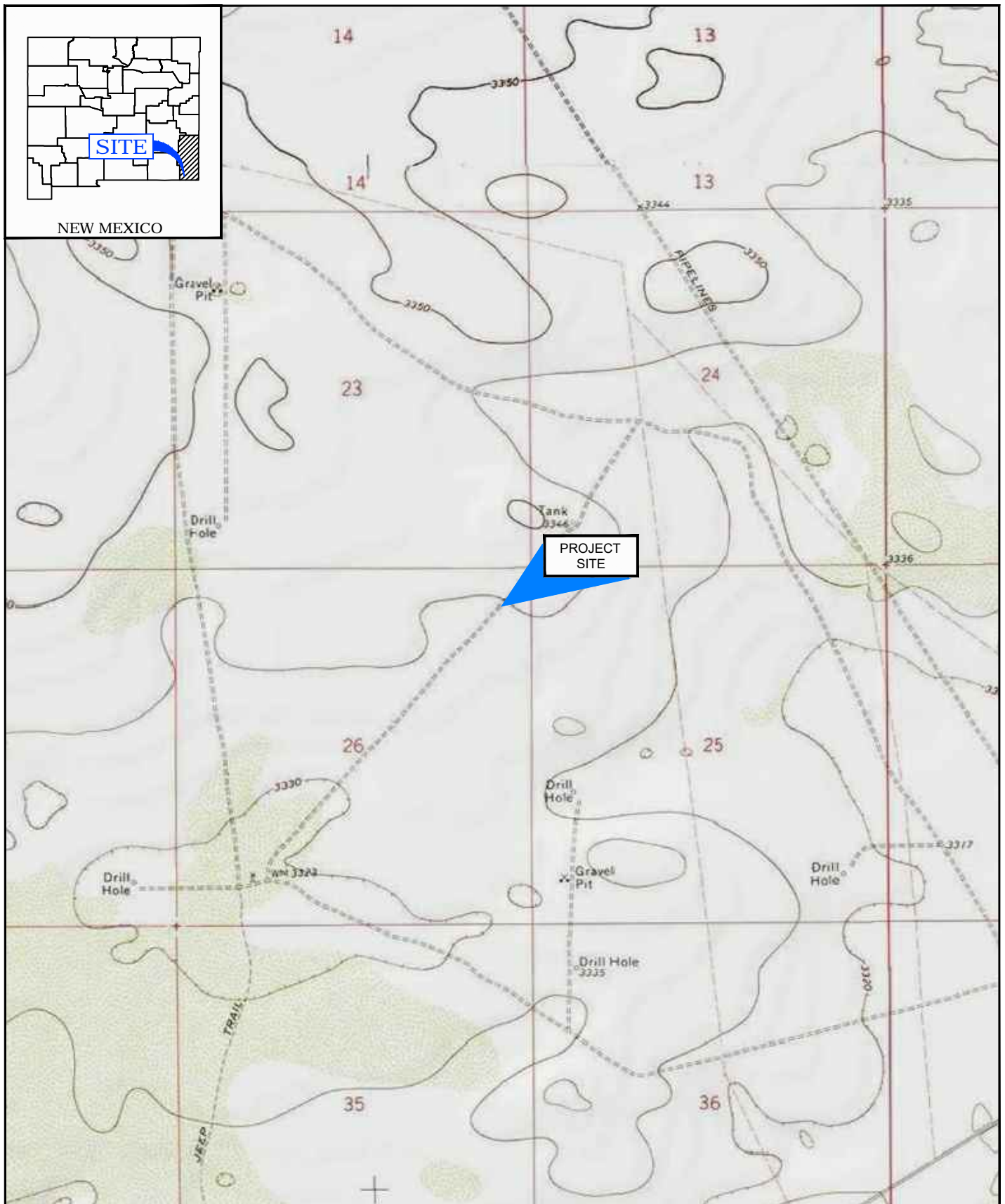


Christine Mathews
Project Scientist



Bernard Bockisch
Senior Project Manager

BB/mc/02



Source: USGS 7.5 Minute Quad "Paduca Breaks East, and Andrews Place, New Mexico"

Lat/Long: 32.1072083° North, 103.5357806° West

0 1000 2000ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)



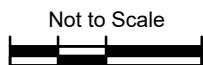
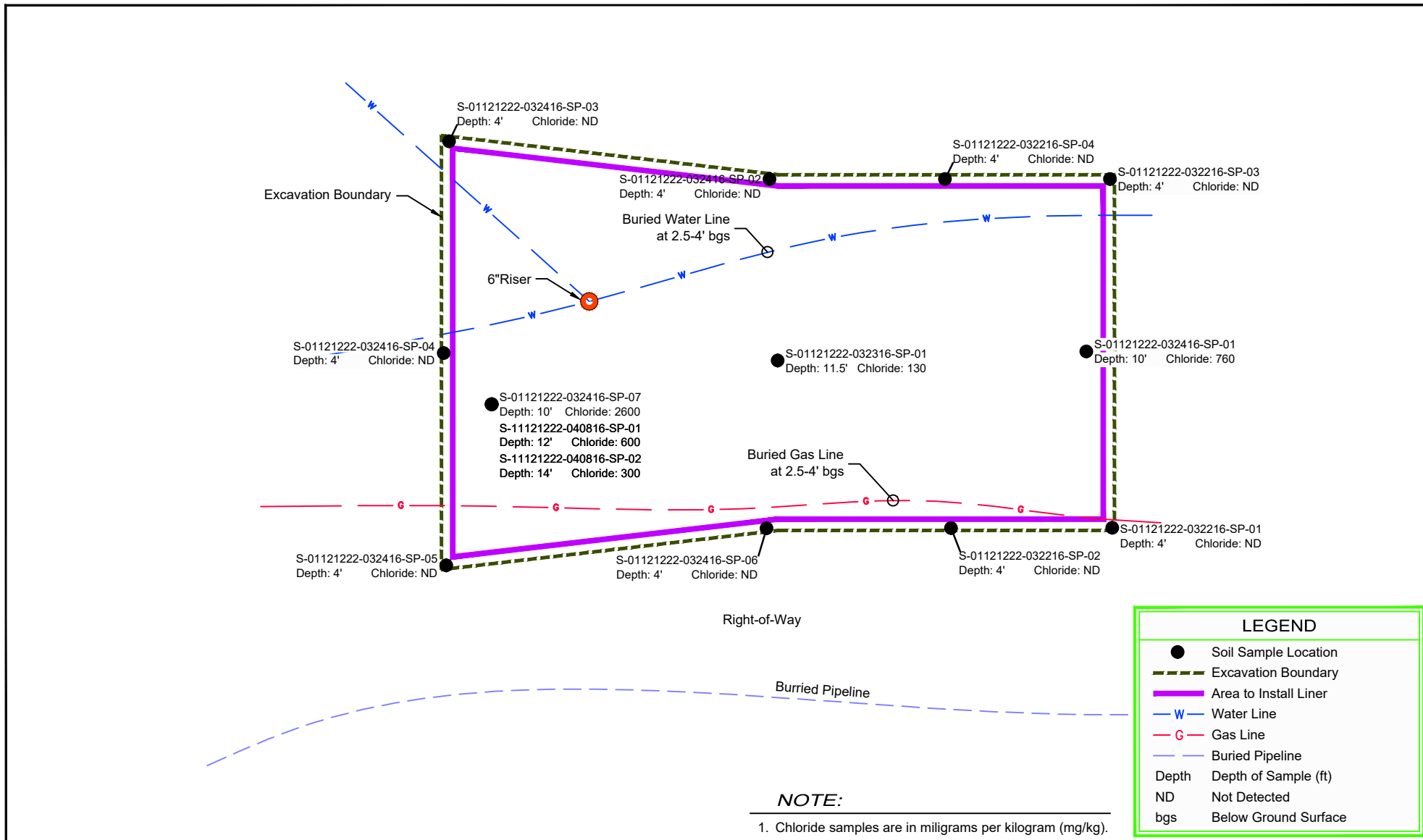
DUBOSE DRILLING INC.
LEA COUNTY, NEW MEXICO
LOMAS ROJAS 26 #701 RELEASE

SITE LOCATION MAP

11121222-00

Apr 12, 2016

FIGURE 1



DUBOSE DRILLING INC.
LEA COUNTY, NEW MEXICO
LOMAS ROJAS 26 #701 RELEASE

SITE DETAILS MAP

11121222-00
Apr 20, 2016

FIGURE 2

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	EOG Resources Inc.	Contact	Zane Kurtz
Address	5509 Champions Drive, Midland, TX 79706	Telephone No.	(432) 686-3667
Facility Name	Lomas Rojas 26 #703 spill area	Facility Type	6" Water Line Riser
Surface Owner	Private	Mineral Owner	Private
		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	26	25S	33E	770	North	1815	East	Lea

Latitude 32.10666 Longitude -103.5405

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	Approx. 300 bbls	Volume Recovered	120 BBLs
Source of Release	Poly line rupture	Date and Hour of Occurrence	2/18/16 approximately 12:00 am	Date and Hour of Discovery	2/18/16 approximately 12:00 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A poly flow line was being moved when it contacted a 6-inch diameter poly water line riser. The riser broke at the tee. The on-site crew had a backhoe available. They were able to berm the release to keep it from spreading. Free fluids were removed with a vacuum truck.

Describe Area Affected and Cleanup Action Taken.*

Impacted soil in the area of the release was excavated to an approximate depth of four to five feet below ground surface. Impacted soil was disposed of at an approved landfill. A 20 mil polyethylene liner was placed in the bottom of the excavation. The lined area was backfilled with clean soil, wheel compacted to grade, and revegetated with BLM seed mix.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Zane Kurtz</i>	OIL CONSERVATION DIVISION		
Printed Name: <i>Zane Kurtz</i>	Approved by Environmental Specialist:		
Title: <i>Environmental Rep EOG</i>	Approval Date:	Expiration Date:	
E-mail Address: <i>zane_kurtz@eogresources.com</i>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <i>11-8-16</i>	Phone: <i>432 686 3667</i>		

* Attach Additional Sheets If Necessary



Photo 1 - Liner placement



Photo 2 - Liner placement



Site Photographs

Mathews, Christine

From: Keyes, Jamie, EMNRD <Jamie.Keyes@state.nm.us>
Sent: Thursday, April 21, 2016 8:38 AM
To: Bockisch, Bernie
Cc: dubosedril@aol.com; rkingsbury@hetiservices.com; Zane Kurtz; Groves, Amber
Subject: RE: Lomas Rojas 26 #701 Release ~COR-11121222~ [Copy]

Good morning,

The work plan is approved as is.

Thank you,

Jamie

From: Bockisch, Bernie [<mailto:Bernard.Bockisch@ghd.com>]
Sent: Wednesday, April 20, 2016 10:42 AM
To: Keyes, Jamie, EMNRD; Groves, Amber
Cc: dubosedril@aol.com; rkingsbury@hetiservices.com; Zane Kurtz
Subject: Lomas Rojas 26 #701 Release

Jamie and Amber,

I have attached a map showing the analytical results of the sampling that was performed at the above referenced site. Based on the data, the vertical extent of the chlorides end at approximately 14 feet below ground surface. With this information, the vertical and horizontal extent of the petroleum hydrocarbon and chloride impacts have been assessed.

On behalf of Dubose Drilling, Inc., and EOG Resources, Inc., GHD is requesting to implement the work plan that was previously submitted to the NMOCD (see attached). The work plan discusses the installation of a 20 mil polyethylene liner in the bottom of the excavation prior to backfilling with clean soil. The area will be revegetated using a BLM-approved seed mix.

Please let me know if we may implement the work plan based on the attached map. A final report will be submitted following backfilling of the excavation. Feel free to contact me if you have any questions.

Bernie

Bernard Bockisch, PMP
Senior Project Manager

GHD

T: +1 505 884 0672 | M: +1 505 280 0572 | E: Bernard.Bockisch@ghd.com
6121 Indian School Rd. NE Albuquerque New Mexico 87110 | www.ghd.com

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Please consider our environment before printing this email

We are changing our name to GHD in July! To learn more about CRA's merger with GHD, visit www.CRAworld.com/ghd

My new email address will be bernard.bockisch@GHD.com beginning July 1.

This e-mail has been scanned for viruses

Mathews, Christine

From: Groves, Amber <agroves@slo.state.nm.us>
Sent: Friday, April 22, 2016 11:16 AM
To: Keyes, Jamie, EMNRD; Bockisch, Bernie
Cc: dubosedril@aol.com; rkingsbury@hetiservices.com; Zane Kurtz
Subject: RE: Lomas Rojas 26 #701 Release ~COR-11121222~ [Copy]

Bernie,

I am in agreement on work plan approval. I have included in this e-mail our new surface restoration policy for your information. Please note that it will need to be included in your work plans going forward and will have to have approval before implementation.

**NMSLO Surface Reclamation and Remediation:
Revegetation and Noxious Weed Management Plans**

Any site remediation or reclamation proposal involving State Trust Land, including any proposal requiring the authorization of the NMOCD, must be accompanied by a Revegetation and Noxious Weed Management Plan. The Plan must be approved by NMSLO staff prior to implementation. In addition, the NMSLO will NOT release the operator from the responsibility of revegetating the surface site until the final report has been submitted, the work approved, and all other requirements are met.

The goal is to achieve native plant cover and diversity levels equal to or exceeding the natural potential levels in undisturbed soils adjacent to the project area. The Plan should include the following:

Seed mix (native seed only), seeding rate/acre, method of dispersal, timing of dispersal, follow up monitoring plan, a re-seeding plan if initial efforts are unsuccessful, a plan for addressing noxious weeds, and a final report. The report should include a brief narrative of the seeding and monitoring efforts plus photos of the seeding process and of the revegetated area.

The Noxious Weed component of the Plan should include identification of the species of concern and the methods used to eradicate those species from the site. Eradication techniques may include mechanical treatment, chemical treatment, follow-up and monitoring. Submittals should be sent directly to Ms. Amber Groves, NMSLO Remediation Specialist, at agroves@slo.state.nm.us or call 575-392-3697 for more information.

All seed mixtures submitted for approval must specify pounds of pure live seed per acre. The seed shall contain no primary or secondary noxious weeds. Commercially sold seed will be either certified or registered seed.

Once the report has been submitted and the work approved, the NMSLO will provide acknowledgment that remediation requirements have been met.

Thank you,

Amber Groves

Remediation Specialist
Field Operations Division
(575)392-3697
(575)263-3209 cell
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88260



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CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is STRICTLY PROHIBITED. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

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For more information please visit <http://www.symanteccloud.com>

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This e-mail has been scanned for viruses



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

March 22, 2016

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Lomas Rojas 26 #701

OrderNo.: 1603884

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/17/2016 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603884

Date Reported: 3/22/2016

CLIENT: GHD

Client Sample ID: S-11121222-031516-SP-01

Project: Lomas Rojas 26 #701

Collection Date: 3/15/2016 4:43:00 PM

Lab ID: 1603884-001

Matrix: SOIL

Received Date: 3/17/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	7600	300		mg/Kg	200	3/22/2016 1:52:37 PM	24365
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/18/2016 12:26:05 PM	24325
Surr: DNOP	91.3	70-130		%Rec	1	3/18/2016 12:26:05 PM	24325
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2016 4:57:02 PM	24321
Surr: BFB	105	66.2-112		%Rec	1	3/18/2016 4:57:02 PM	24321
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/18/2016 4:57:02 PM	24321
Toluene	ND	0.048		mg/Kg	1	3/18/2016 4:57:02 PM	24321
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2016 4:57:02 PM	24321
Xylenes, Total	ND	0.096		mg/Kg	1	3/18/2016 4:57:02 PM	24321
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	3/18/2016 4:57:02 PM	24321

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603884**Date Reported: **3/22/2016****CLIENT:** GHD**Client Sample ID:** S-11121222-031516-SP-02**Project:** Lomas Rojas 26 #701**Collection Date:** 3/15/2016 5:15:00 PM**Lab ID:** 1603884-002**Matrix:** SOIL**Received Date:** 3/17/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	8300	300		mg/Kg	200	3/22/2016 2:05:01 PM	24365
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/18/2016 1:31:16 PM	24325
Surr: DNOP	85.8	70-130		%Rec	1	3/18/2016 1:31:16 PM	24325
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/18/2016 5:20:36 PM	24321
Surr: BFB	106	66.2-112		%Rec	1	3/18/2016 5:20:36 PM	24321
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/18/2016 5:20:36 PM	24321
Toluene	ND	0.049		mg/Kg	1	3/18/2016 5:20:36 PM	24321
Ethylbenzene	ND	0.049		mg/Kg	1	3/18/2016 5:20:36 PM	24321
Xylenes, Total	ND	0.099		mg/Kg	1	3/18/2016 5:20:36 PM	24321
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	3/18/2016 5:20:36 PM	24321

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603884

Date Reported: 3/22/2016

CLIENT: GHD

Client Sample ID: S-11121222-031516-SP-03

Project: Lomas Rojas 26 #701

Collection Date: 3/15/2016 5:20:00 PM

Lab ID: 1603884-003

Matrix: SOIL

Received Date: 3/17/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	4800	300		mg/Kg	200	3/22/2016 2:17:26 PM	24365
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/19/2016 10:22:28 AM	24325
Surr: DNOP	92.3	70-130		%Rec	1	3/19/2016 10:22:28 AM	24325
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/18/2016 5:44:19 PM	24321
Surr: BFB	104	66.2-112		%Rec	1	3/18/2016 5:44:19 PM	24321
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/18/2016 5:44:19 PM	24321
Toluene	ND	0.047		mg/Kg	1	3/18/2016 5:44:19 PM	24321
Ethylbenzene	ND	0.047		mg/Kg	1	3/18/2016 5:44:19 PM	24321
Xylenes, Total	ND	0.093		mg/Kg	1	3/18/2016 5:44:19 PM	24321
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	3/18/2016 5:44:19 PM	24321

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603884**Date Reported: **3/22/2016****CLIENT:** GHD**Client Sample ID:** S-11121222-031516-SP-04**Project:** Lomas Rojas 26 #701**Collection Date:** 3/15/2016 5:30:00 PM**Lab ID:** 1603884-004**Matrix:** SOIL**Received Date:** 3/17/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/22/2016 4:16:25 AM	24365
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	2700	93		mg/Kg	10	3/19/2016 10:43:33 AM	24325
Surr: DNOP	0	70-130	S	%Rec	10	3/19/2016 10:43:33 AM	24325
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2016 6:07:57 PM	24321
Surr: BFB	104	66.2-112		%Rec	1	3/18/2016 6:07:57 PM	24321
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/18/2016 6:07:57 PM	24321
Toluene	ND	0.048		mg/Kg	1	3/18/2016 6:07:57 PM	24321
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2016 6:07:57 PM	24321
Xylenes, Total	ND	0.096		mg/Kg	1	3/18/2016 6:07:57 PM	24321
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	3/18/2016 6:07:57 PM	24321

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	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#: 1603884

23-Mar-16

Client: GHD

Project: Lomas Rojas 26 #701

Sample ID	MB-24365		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	24365		RunNo:	32963				
Prep Date:	3/21/2016		Analysis Date:	3/21/2016		SeqNo:	1011048		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-24365		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 24365		RunNo: 32963					
Prep Date:	3/21/2016		Analysis Date: 3/21/2016		SeqNo: 1011049		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	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
R RPD outside accepted recovery limits
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603884

23-Mar-16

Client: GHD

Project: Lomas Rojas 26 #701

Sample ID	LCS-24325		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 24325		RunNo: 32886					
Prep Date:	3/18/2016		Analysis Date: 3/18/2016		SeqNo: 1008166		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.0	65.8	136			
Surr: DNOP	4.3		5.000		85.1	70	130			

Sample ID	MB-24325		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 24325		RunNo: 32886					
Prep Date:	3/18/2016		Analysis Date: 3/18/2016		SeqNo: 1008167		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.3		10.00		83.0	70	130			

Sample ID	1603884-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-11121222-031516-		Batch ID: 24325		RunNo: 32886					
Prep Date:	3/18/2016		Analysis Date: 3/19/2016		SeqNo: 1009659		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.1	45.66	0	82.0	31.2	162			
Surr: DNOP	4.3		4.566		93.2	70	130			

Sample ID	1603884-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	S-11121222-031516-		Batch ID:	24325		RunNo:	32886				
Prep Date:	3/18/2016		Analysis Date:	3/19/2016		SeqNo:	1009661		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	40	9.6	48.08	0	83.5	31.2	162	6.99	31.7		
Surr: DNOP	4.4		4.808		91.5	70	130	0	0		

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
R RPD outside accepted recovery limits
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603884

23-Mar-16

Client: GHD

Project: Lomas Rojas 26 #701

Sample ID	MB-24321		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 24321		RunNo: 32893					
Prep Date:	3/17/2016		Analysis Date: 3/18/2016		SeqNo: 1008613		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	1100		1000		108	66.2	112			

Sample ID	LCS-24321		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 24321		RunNo: 32893					
Prep Date:	3/17/2016		Analysis Date: 3/18/2016		SeqNo: 1008614		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80	120			
Surr: BFB	1200		1000		117	66.2	112			S

Sample ID	1603884-002AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	S-11121222-031516-		Batch ID: 24321		RunNo: 32893					
Prep Date:	3/17/2016		Analysis Date: 3/18/2016		SeqNo: 1008617		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.76	0	122	59.3	143			
Surr: BFB	1100		950.6		112	66.2	112			S

Sample ID	1603884-002AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	S-11121222-031516-		Batch ID:	24321		RunNo:	32893				
Prep Date:	3/17/2016		Analysis Date:	3/18/2016		SeqNo:	1008618		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	28	4.6	23.02	0	120	59.3	143	5.06	20		
Surr: BFB	1100		920.8		116	66.2	112	0	0	S	

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
R RPD outside accepted recovery limits
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603884

23-Mar-16

Client: GHD
Project: Lomas Rojas 26 #701

Sample ID MB-24321	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 24321		RunNo: 32893							
Prep Date: 3/17/2016	Analysis Date: 3/18/2016		SeqNo: 1008645	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	1.1		1.000		113	80	120			

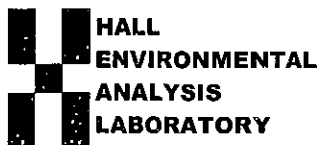
Sample ID LCS-24321	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 24321		RunNo: 32893							
Prep Date: 3/17/2016	Analysis Date: 3/18/2016		SeqNo: 1008646	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	114	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		121	80	120			S

Sample ID 1603884-001AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: S-11121222-031516-	Batch ID: 24321		RunNo: 32893							
Prep Date: 3/17/2016	Analysis Date: 3/18/2016		SeqNo: 1008648	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.024	0.9756	0	134	71.5	122			S
Toluene	1.2	0.049	0.9756	0	125	71.2	123			S
Ethylbenzene	1.2	0.049	0.9756	0	122	75.2	130			
Xylenes, Total	3.6	0.098	2.927	0	121	72.4	131			
Surr: 4-Bromofluorobenzene	1.2		0.9756		124	80	120			S

Sample ID 1603884-001AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: S-11121222-031516-	Batch ID: 24321		RunNo: 32893							
Prep Date: 3/17/2016	Analysis Date: 3/18/2016		SeqNo: 1008649	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.024	0.9407	0	134	71.5	122	3.85	20	S
Toluene	1.2	0.047	0.9407	0	122	71.2	123	5.63	20	
Ethylbenzene	1.1	0.047	0.9407	0	121	75.2	130	4.61	20	
Xylenes, Total	3.3	0.094	2.822	0	119	72.4	131	6.07	20	
Surr: 4-Bromofluorobenzene	1.1		0.9407		118	80	120	0	0	

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | 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 Number: 1603884

RcptNo: 1

Received by/date:

A 03/17/16

Logged By: Lindsay Mangin

3/17/2016 9:50:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

3/17/2016 9:55:05 AM

Lindsay Mangin

Reviewed By:

JA 03/17/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good	Yes			

Chain-of-Custody Record

Client: GHD - Albuquerque

Mailing Address: 6121 Indian School Blvd

NE200 Albuquerque, NM, 87110

Phone #: 505-884-0672

Mail or Fax#: Bernard.Bockisch@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard

☒ Rush 3 day

Project Name:

Lomas Rojas 26 #701

Project #:

11121222

Project Manager:

Bernard Bockisch
505-280-0572

Sampler:

Steve Perez

On Ice:

☒ Yes ☐ No

Sample Temperature: 5.4

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

HEAL No.

16038824

15-16 1643 Soil S-11121222-031516-SF-01 4oz glass-1 ICE -001

1715 ↓ S-11121222-031516-SF-02 ↓ -002

1720 ↓ S-11121222-031516-SF-03 ↓ -003

1730 ↓ S-11121222-031516-SF-04 ↓ -004

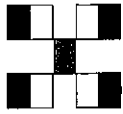
Date Time Relinquished by

Received by: [Signature] Date Time 3/16/16 0700

Date Time Relinquished by

Received by: [Signature] Date Time 03/17/16 0950

Remarks:



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

300.0 Chloride

8021 BTEX

THI 8015 GRO/DRO

Air Bubbles (Y or N)



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

March 31, 2016

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Lomas Rojas 26 #701

OrderNo.: 1603C30

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/24/2016 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603C30**

Date Reported: **3/31/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032216-SP-01

Project: Lomas Rojas 26 #701

Collection Date: 3/22/2016 1:05:00 PM

Lab ID: 1603C30-001

Matrix: SOIL

Received Date: 3/24/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/29/2016 3:24:35 PM	24484
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/29/2016 11:07:44 PM	24450
Surr: DNOP	106	70-130		%Rec	1	3/29/2016 11:07:44 PM	24450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/25/2016 1:30:44 PM	24428
Surr: BFB	106	66.2-112		%Rec	1	3/25/2016 1:30:44 PM	24428

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603C30**

Date Reported: **3/31/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032216-SP-02

Project: Lomas Rojas 26 #701

Collection Date: 3/22/2016 1:15:00 PM

Lab ID: 1603C30-002

Matrix: SOIL

Received Date: 3/24/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/29/2016 4:01:50 PM	24484
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/29/2016 11:28:55 PM	24450
Surr: DNOP	108	70-130		%Rec	1	3/29/2016 11:28:55 PM	24450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/25/2016 1:54:22 PM	24428
Surr: BFB	106	66.2-112		%Rec	1	3/25/2016 1:54:22 PM	24428

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603C30**

Date Reported: **3/31/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032216-SP-03

Project: Lomas Rojas 26 #701

Collection Date: 3/22/2016 1:20:00 PM

Lab ID: 1603C30-003

Matrix: SOIL

Received Date: 3/24/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/29/2016 4:14:14 PM	24484
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/29/2016 11:50:16 PM	24450
Surr: DNOP	109	70-130		%Rec	1	3/29/2016 11:50:16 PM	24450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/25/2016 2:17:56 PM	24428
Surr: BFB	105	66.2-112		%Rec	1	3/25/2016 2:17:56 PM	24428

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603C30

Date Reported: 3/31/2016

CLIENT: GHD

Client Sample ID: S-11121222-032216-SP-04

Project: Lomas Rojas 26 #701

Collection Date: 3/22/2016 1:25:00 PM

Lab ID: 1603C30-004

Matrix: SOIL

Received Date: 3/24/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/29/2016 4:26:39 PM	24484
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/30/2016 12:11:35 AM	24450
Surr: DNOP	108	70-130		%Rec	1	3/30/2016 12:11:35 AM	24450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/25/2016 2:41:21 PM	24428
Surr: BFB	107	66.2-112		%Rec	1	3/25/2016 2:41:21 PM	24428

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603C30

Date Reported: 3/31/2016

CLIENT: GHD

Client Sample ID: S-11121222-032316-SP-01

Project: Lomas Rojas 26 #701

Collection Date: 3/23/2016 12:35:00 PM

Lab ID: 1603C30-005

Matrix: SOIL

Received Date: 3/24/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	130	30		mg/Kg	20	3/29/2016 4:39:04 PM	24484
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/30/2016 12:32:53 AM	24450
Surr: DNOP	113	70-130		%Rec	1	3/30/2016 12:32:53 AM	24450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/25/2016 3:04:52 PM	24428
Surr: BFB	107	66.2-112		%Rec	1	3/25/2016 3:04:52 PM	24428

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	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#: 1603C30

31-Mar-16

Client: GHD

Project: Lomas Rojas 26 #701

Sample ID	MB-24484		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	24484		RunNo:	33158				
Prep Date:	3/29/2016		Analysis Date:	3/29/2016		SeqNo:	1018203		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-24484		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 24484		RunNo: 33158					
Prep Date:	3/29/2016		Analysis Date: 3/29/2016		SeqNo: 1018204		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	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
R RPD outside accepted recovery limits
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603C30

31-Mar-16

Client: GHD

Project: Lomas Rojas 26 #701

Sample ID	LCS-24450		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 24450		RunNo: 33126					
Prep Date:	3/25/2016		Analysis Date: 3/29/2016		SeqNo: 1017915		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.1	65.8	136			
Surr: DNOP	5.0		5.000		99.9	70	130			

Sample ID	MB-24450		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	24450		RunNo:	33126				
Prep Date:	3/25/2016		Analysis Date:	3/29/2016		SeqNo:	1017916		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	9.6		10.00		96.4	70	130				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603C30

31-Mar-16

Client: GHD

Project: Lomas Rojas 26 #701

Sample ID	MB-24428		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 24428		RunNo: 33067					
Prep Date:	3/24/2016		Analysis Date: 3/25/2016		SeqNo: 1015282		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	1100		1000		105	66.2	112			

Sample ID	LCS-24428		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 24428		RunNo: 33067					
Prep Date:	3/24/2016		Analysis Date: 3/25/2016		SeqNo: 1015283		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.2	80	120			
Surr: BFB	1100		1000		114	66.2	112			S

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
R RPD outside accepted recovery limits
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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1603C30

RcptNo: 1

Received by/date:

A *03/24/16*

Logged By: Lindsay Mangin

3/24/2016 9:50:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

3/24/2016 1:19:04 PM

Lindsay Mangin

Reviewed By:

A *03/24/16*

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Chain-of-Custody Record

Client: CHD - Albuquerque

Mailing Address: 6121 Indian School Rd NE

Box 200, Albuquerque NM 87110

Phone #: 505-884-0672

Email or Fax#: Bernard.Bockisch@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Lomas Rojas 26 #701

Project #:

1112-1222

Project Manager: Bernard Bockisch

505-280-8572

Sampler:

Steve Perez

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.1-1.0C F=1.1

Date Time Matrix Sample Request ID

22-16 1305 S-11121222-032216-SF-01
1315 S-11121222-032216-SF-02
1320 S-11121222-032216-SF-03
1325 S-11121222-032216-SF-04
23-16 1235 S-11121222-032316-SF-01

Container Type and #

6oz glass - 1
Ice
↓
↓
↓

Preservative Type

-001
-002
-003
-004
-005

HEAL No.

11023130

Date: 3-16

Relinquished by: Steve Perez

Received by: Michelle Navarro

Date: 3/23/16

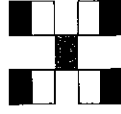
Date: 3-16

Relinquished by: Steve Perez

Received by: Steve Perez

Date: 03/24/16

0950



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	X 300.0 Chloride	X TPH 8015 - GRO/DRO	Air Bubbles (Y or N)
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Remarks:



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

April 12, 2016

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Lomas Rojas 26 701

OrderNo.: 1603D75

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/29/2016 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603D75**

Date Reported: **4/12/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032416-SP-01

Project: Lomas Rojas 26 701

Collection Date: 3/24/2016 9:15:00 AM

Lab ID: 1603D75-001

Matrix: SOIL

Received Date: 3/29/2016 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	760	30		mg/Kg	20	4/1/2016 2:04:10 AM	24568
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/31/2016 9:17:28 AM	24529
Surr: DNOP	102	70-130		%Rec	1	3/31/2016 9:17:28 AM	24529
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2016 1:53:58 PM	24489
Surr: BFB	95.3	66.2-112		%Rec	1	3/30/2016 1:53:58 PM	24489

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603D75**

Date Reported: **4/12/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032416-SP-02

Project: Lomas Rojas 26 701

Collection Date: 3/24/2016 10:00:00 AM

Lab ID: 1603D75-002

Matrix: SOIL

Received Date: 3/29/2016 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/1/2016 2:16:34 AM	24568
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/31/2016 9:38:53 AM	24529
Surr: DNOP	98.3	70-130		%Rec	1	3/31/2016 9:38:53 AM	24529
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2016 2:17:42 PM	24489
Surr: BFB	97.5	66.2-112		%Rec	1	3/30/2016 2:17:42 PM	24489

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603D75**

Date Reported: **4/12/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032416-SP-03

Project: Lomas Rojas 26 701

Collection Date: 3/24/2016 10:30:00 AM

Lab ID: 1603D75-003

Matrix: SOIL

Received Date: 3/29/2016 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/1/2016 2:28:59 AM	24568
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/31/2016 10:00:19 AM	24529
Surr: DNOP	100	70-130		%Rec	1	3/31/2016 10:00:19 AM	24529
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2016 2:41:24 PM	24489
Surr: BFB	97.0	66.2-112		%Rec	1	3/30/2016 2:41:24 PM	24489

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603D75**

Date Reported: **4/12/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032416-SP-04

Project: Lomas Rojas 26 701

Collection Date: 3/24/2016 11:05:00 AM

Lab ID: 1603D75-004

Matrix: SOIL

Received Date: 3/29/2016 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/1/2016 2:41:23 AM	24568
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/31/2016 10:21:51 AM	24529
Surr: DNOP	102	70-130		%Rec	1	3/31/2016 10:21:51 AM	24529
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2016 3:04:59 PM	24489
Surr: BFB	96.7	66.2-112		%Rec	1	3/30/2016 3:04:59 PM	24489

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603D75**

Date Reported: **4/12/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032416-SP-05

Project: Lomas Rojas 26 701

Collection Date: 3/24/2016 11:35:00 AM

Lab ID: 1603D75-005

Matrix: SOIL

Received Date: 3/29/2016 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/1/2016 11:42:49 AM	24575
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/31/2016 10:43:21 AM	24529
Surr: DNOP	101	70-130		%Rec	1	3/31/2016 10:43:21 AM	24529
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2016 3:28:35 PM	24489
Surr: BFB	99.2	66.2-112		%Rec	1	3/30/2016 3:28:35 PM	24489

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603D75**

Date Reported: **4/12/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032416-SP-06

Project: Lomas Rojas 26 701

Collection Date: 3/24/2016 12:00:00 PM

Lab ID: 1603D75-006

Matrix: SOIL

Received Date: 3/29/2016 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/1/2016 12:20:02 PM	24575
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/31/2016 11:04:56 AM	24529
Surr: DNOP	98.4	70-130		%Rec	1	3/31/2016 11:04:56 AM	24529
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2016 3:52:02 PM	24489
Surr: BFB	97.7	66.2-112		%Rec	1	3/30/2016 3:52:02 PM	24489

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1603D75**

Date Reported: **4/12/2016**

CLIENT: GHD

Client Sample ID: S-11121222-032416-SP-07

Project: Lomas Rojas 26 701

Collection Date: 3/24/2016 3:30:00 PM

Lab ID: 1603D75-007

Matrix: SOIL

Received Date: 3/29/2016 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2600	150		mg/Kg	100	4/4/2016 3:38:27 PM	24575
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/31/2016 11:26:23 AM	24529
Surr: DNOP	84.3	70-130		%Rec	1	3/31/2016 11:26:23 AM	24529
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2016 4:15:27 PM	24489
Surr: BFB	98.3	66.2-112		%Rec	1	3/30/2016 4:15:27 PM	24489

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	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#: 1603D75

12-Apr-16

Client: GHD

Project: Lomas Rojas 26 701

Sample ID	MB-24568	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	24568	RunNo:	33236					
Prep Date:	3/31/2016	Analysis Date:	3/31/2016	SeqNo:	1020845	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-24568	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	24568	RunNo:	33236					
Prep Date:	3/31/2016	Analysis Date:	3/31/2016	SeqNo:	1020846	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Sample ID	1603D03-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	24568	RunNo:	33236					
Prep Date:	3/31/2016	Analysis Date:	3/31/2016	SeqNo:	1020851	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	37	1.5	15.00	21.54	106	64.2	131			

Sample ID	1603D03-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	24568	RunNo:	33236					
Prep Date:	3/31/2016	Analysis Date:	3/31/2016	SeqNo:	1020852	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	38	1.5	15.00	21.54	107	64.2	131	0.501	20	

Sample ID	1603D09-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	24568	RunNo:	33236					
Prep Date:	3/31/2016	Analysis Date:	3/31/2016	SeqNo:	1020856	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	26	7.5	15.00	13.35	82.4	64.2	131			

Sample ID	1603D09-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	24568	RunNo:	33236					
Prep Date:	3/31/2016	Analysis Date:	3/31/2016	SeqNo:	1020857	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	27	7.5	15.00	13.35	90.3	64.2	131	4.47	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603D75

12-Apr-16

Client: GHD

Project: Lomas Rojas 26 701

Sample ID	MB-24575		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 24575		RunNo: 33247					
Prep Date:	4/1/2016		Analysis Date: 4/1/2016		SeqNo: 1021596		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-24575		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 24575		RunNo: 33247					
Prep Date:	4/1/2016		Analysis Date: 4/1/2016		SeqNo: 1021597		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	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#: 1603D75

12-Apr-16

Client: GHD

Project: Lomas Rojas 26 701

Sample ID	LCS-24529		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 24529		RunNo: 33190					
Prep Date:	3/30/2016		Analysis Date: 3/31/2016		SeqNo: 1019496		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	65.8	136			
Surr: DNOP	5.3		5.000		106	70	130			

Sample ID	MB-24529		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 24529		RunNo: 33190					
Prep Date:	3/30/2016		Analysis Date: 3/31/2016		SeqNo: 1019497		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		106	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603D75

12-Apr-16

Client: GHD

Project: Lomas Rojas 26 701

Sample ID	MB-24489		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 24489		RunNo: 33165					
Prep Date:	3/29/2016		Analysis Date: 3/30/2016		SeqNo: 1019143		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	1100		1000		108	66.2	112			

Sample ID	LCS-24489		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 24489		RunNo: 33165					
Prep Date:	3/29/2016		Analysis Date: 3/30/2016		SeqNo: 1019144		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	80	120			
Surr: BFB	1100		1000		114	66.2	112			S

Sample ID	1603D55-001AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	BatchQC		Batch ID: 24489		RunNo: 33165					
Prep Date:	3/29/2016		Analysis Date: 3/30/2016		SeqNo: 1019146		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.93	0	116	59.3	143			
Surr: BFB	1200		997.0		120	66.2	112			S

Sample ID	1603D55-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	BatchQC		Batch ID:	24489		RunNo:	33165				
Prep Date:	3/29/2016		Analysis Date:	3/30/2016		SeqNo:	1019147		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	5.0	24.85	0	105	59.3	143	9.69	20		
Surr: BFB	1200		994.0		118	66.2	112	0	0	S	

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
R RPD outside accepted recovery limits
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



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: 1603D75

ReptNo: 1

Received by/date:

Logged By: Lindsay Mangin

3/29/2016 9:10:00 AM

Completed By: Lindsay Mangin

3/29/2016 12:24:47 PM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 8.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good	Yes			



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

April 19, 2016

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Lomas Rojas 26 #701

OrderNo.: 1604661

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/15/2016 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: **1604661**

Date Reported: **4/19/2016**

CLIENT: GHD
Project: Lomas Rojas 26 #701

Lab Order: 1604661

Lab ID: 1604661-001 **Collection Date:** 4/8/2016 9:30:00 AM
Client Sample ID: S-1112122-040816-SP-01 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	600	30		mg/Kg	20	4/19/2016 2:47:53 PM	24866

Lab ID: 1604661-002 **Collection Date:** 4/8/2016 9:35:00 AM
Client Sample ID: S-11121220-040816-SP-02 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	300	30		mg/Kg	20	4/19/2016 3:00:17 PM	24866

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

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



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Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1604661

RcptNo: 1

Received by/date: JA 04/15/16

Logged By: Anne Thorne 4/15/2016 9:25:00 AM

Anne Thorne

Completed By: Anne Thorne 4/15/2016

Anne Thorne

Reviewed By: *JA* 04/15/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks: *Used collection times on sample JAS JA 04/15/16*

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Not Present			

