



EOG Resources, Inc.  
Artesia Division Office  
104 S. 4<sup>th</sup> Street  
Artesia, N. M. 88210

March 29, 2021

NMOCD District II  
811 S. First St.  
Artesia, NM 88210

Re: Goat Roper LP #1  
30-015-23059  
P-30-17S-26E  
Eddy County, NM  
Incident #NRM2035039644

EOG Resources, Inc. is submitting the enclosed remediation work plan for the above referenced site. The plan is being submitted in reference to the C-141 report submitted on December 3, 2020.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

A handwritten signature in black ink that reads "Chase Settle".

Chase Settle  
Rep Safety & Environmental Sr  
EOG Resources, Inc.

**Goat Roper LP #1**  
**Remediation Work Plan**  
**30-015-23059**  
**P-30-17S-26E**  
**Eddy County, NM**  
**March 29, 2021**  
**NRM2035039644**



---

**Table of Contents**

I.	Location.....	1
II.	Background.....	1
III.	Surface and Ground Water.....	1
IV.	NMOCD Assessment Criteria.....	1
V.	Soils.....	2
VI.	Scope of Work.....	2

**Tables:**

Table 1: Soil Analytical Data

**Figures:**

Figure 1: Site Map with Sample Points

**Photos**

**Appendices:**

Appendix A: Soil Sample Laboratory Data

Appendix B: NMOSE Groundwater Data

Appendix C: NRCS Soil Data

Appendix D: FEMA Flood Map

Appendix E: Form C-141

**I. Location**

From the intersection of Fairgrounds Road and 13<sup>th</sup> Street, head west on Fairgrounds Road for 0.5 mile, then turn north on the lease road to the location.

**II. Background**

During a site inspection, EOG personnel discovered a release from the condensate tank. EOG drained and removed the tank once discovered, then began excavating the impacted soils stockpiling the excavated soil within a lined, bermed holding cell. Initial sampling was conducted on January 7, 2021, with a notification sent to NMOCD on December 31, 2020. After removing the impacted soil to a depth of 25 feet below grade surface (bgs), EOG submitted a sampling notification to NMOCD on January 11, 2021, for sampling activities that occurred on January 13, 2021. Confirmation samples, vertical and horizontal, were collected at this event to verify that all impacted soil had been excavated. Approximately 200 cubic yards of impacted soil was stockpiled in the lined and bermed treatment cell on location.

**III. Surface and Ground Water**

Area surface geology is Cenozoic Quaternary. Based on information from the New Mexico Office of the State Engineer (NMOSE) regarding this location (Section 30, T17S-R26E), the closest wells within a half mile of the release site with data from the last 20 years have groundwater depths of 130 to 200 feet bgs. Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of significant surface water being the Pecos River at 5.25 miles away. The site is not within a High or Critical Karst area, nor within a 100 year flood plain according to FEMA.

**IV. NMOCD Assessment Criteria**

The site assessment criteria are as follows:

Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

Based on the assessment criteria, the NMOCD established RRALs for this site are:

Benzene	10 mg/kg
BTEX	50 mg/kg
TPH	2,500 mg/kg
GRO + DRO	1,000 mg/kg
Chlorides	20,000 mg/kg

**V. Soils**

USDA Natural Resources Conservation Service (NRCS) classifies soil in the area as Reagan loam, with 0-1% slope.

## **VI. Scope of Work**

Stockpiled soils, approximately 200 cubic yards, have already begun bioremediation procedures with a microbial product (Liquid Remediate). The bioremediation product was administered to the stockpiled material on February 1, 2021. This consisted of mixing 20 gallons of the product with 200 gallons of water and applying the mixture to the soil within the lined and bermed treatment cell. The impacted material is in approximately an 8 inch lift. In order to create greater contact with the mixture, the soil was turned immediately following application. Based on the treatment date, EOG performed the first confirmation sampling of the bioremediated soil on March 15, 2021. 5 point composite samples were collected with 1 sample representative of 25 cubic yards of soil. The treated soil has yet to reach guidelines for NMAC 19.15.29.13, therefore another treatment with Liquid Remediate is scheduled to occur in April 2021, following the same protocols as previously used. The next confirmation sampling will occur approximately 60 days following treatment. Once all samples confirm that soils are below the requirements of NMAC 19.15.29.13, the excavation will be backfilled with the remediated soil.

At the completion of the remediation project, the area will not be reseeded since the battery is still active. When remediation work is completed, a C-141 Closure Report will be submitted to the NMOCD requesting closure of the site.

# Table 1

## Soil Analytical Data





March 29, 2021

### Soil Analytical Data

Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT DRO	Total TPH	Chlorides
V1-20'	20	1/7/21	ND	ND	ND	2.6	2.6	290	2600	ND	2890	ND
V1-25'	25	1/7/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
V1C-25'	25	1/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HS 0-13'	0-13	1/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HS 13-25'	13-25	1/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HN 0-13'	0-13	1/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
HN 13-25'	13-25	1/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HE 0-13'	0-13	1/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	160
HE 13-25'	13-25	1/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HW 0-13'	0-13	1/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	95
HW 13-25'	13-25	1/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Confirmation Results												
C1	<1	3/15/21	ND	ND	ND	ND	ND	120	1200	ND	1320	63
C2	<1	3/15/21	ND	ND	ND	ND	ND	ND	300	ND	300	100
C3	<1	3/15/21	ND	ND	ND	ND	ND	5.7	110	ND	115.7	150
C4	<1	3/15/21	ND	ND	ND	ND	ND	37	850	ND	887	62
C5	<1	3/15/21	ND	ND	ND	ND	ND	89	660	ND	749	66
C6	<1	3/15/21	ND	ND	ND	ND	ND	31	420	ND	451	94
C7	<1	3/15/21	ND	ND	ND	ND	ND	32	1200	ND	1232	66
C8	<1	3/15/21	ND	ND	ND	ND	ND	ND	300	ND	300	84

# Figure 1

## Site Map with Sample Points



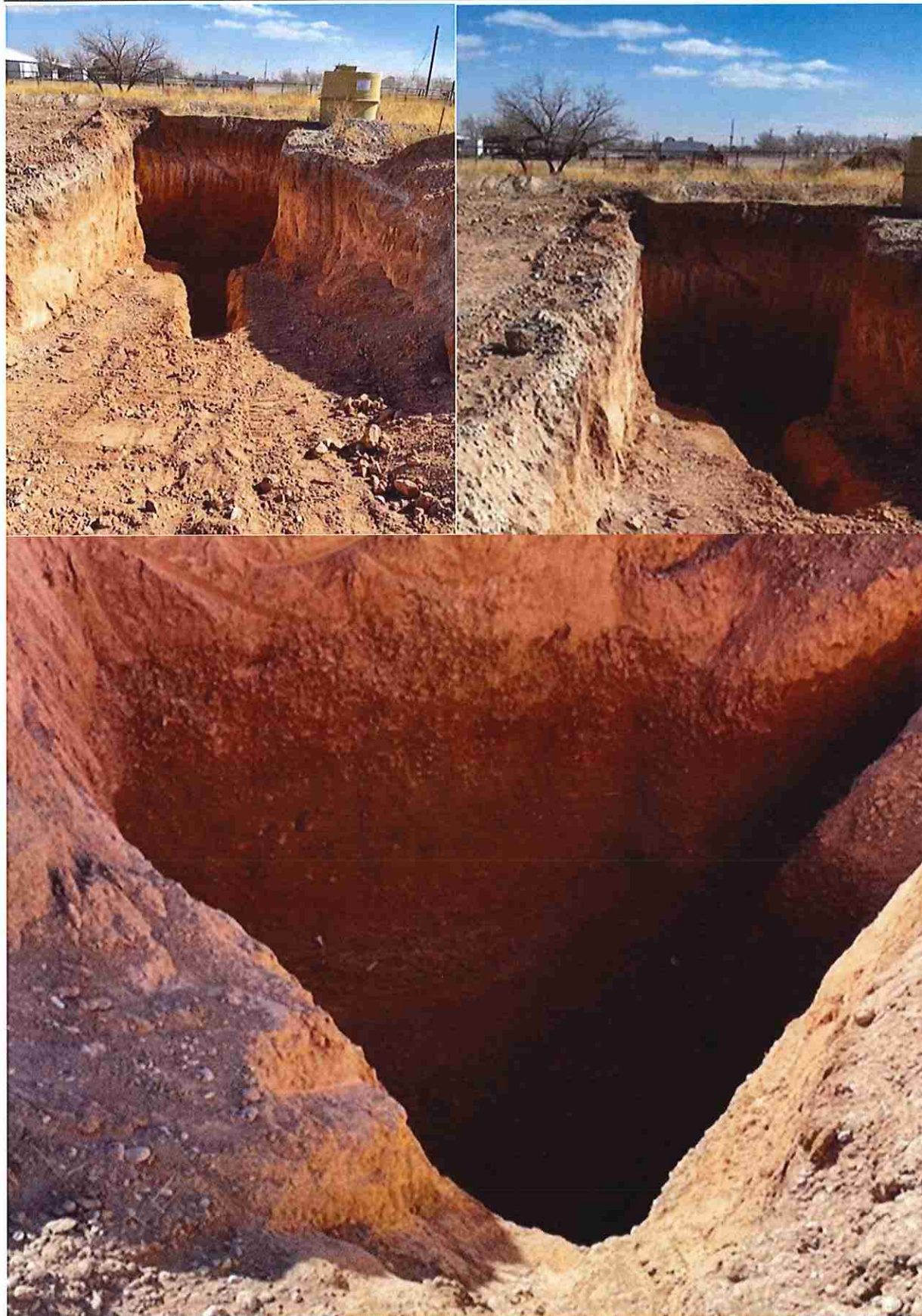
Goat Roper LP #1  
Remediation Work Plan  
#NRM2035039644



March 29, 2021



# Photos





# Appendix A

## Soil Sample Laboratory Data



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

January 12, 2021

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Goat Roper LP 1

OrderNo.: 2101342

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/9/2021 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](http://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 #NM0901

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

**Analytical Report**  
 Lab Order 2101342  
 Date Reported: 1/12/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG **Client Sample ID:** V1-20'  
**Project:** Goat Roper LP 1 **Collection Date:** 1/7/2021 9:43:00 AM  
**Lab ID:** 2101342-001 **Matrix:** MEOH (SOIL) **Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/10/2021 11:44:01 AM	57441
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	2600	90		mg/Kg	10	1/11/2021 9:23:46 AM	57445
Motor Oil Range Organics (MRO)	ND	450	D	mg/Kg	10	1/11/2021 9:23:46 AM	57445
Surr: DNOP	0	30.4-154	S	%Rec	10	1/11/2021 9:23:46 AM	57445
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	290	17		mg/Kg	5	1/9/2021 12:05:08 PM	G74508
Surr: BFB	690	75.3-105	S	%Rec	5	1/9/2021 12:05:08 PM	G74508
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.084		mg/Kg	5	1/9/2021 12:05:08 PM	B74508
Toluene	ND	0.17		mg/Kg	5	1/9/2021 12:05:08 PM	B74508
Ethylbenzene	ND	0.17		mg/Kg	5	1/9/2021 12:05:08 PM	B74508
Xylenes, Total	2.6	0.33		mg/Kg	5	1/9/2021 12:05:08 PM	B74508
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	5	1/9/2021 12:05:08 PM	B74508

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2101342

Date Reported: 1/12/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: V1-25'

Project: Goat Roper LP 1

Collection Date: 1/7/2021 11:51:00 AM

Lab ID: 2101342-002

Matrix: MEOH (SOIL)

Received Date: 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	ND	60		mg/Kg	20	1/10/2021 11:56:26 AM	57441
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/11/2021 9:00:07 AM	57445
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/11/2021 9:00:07 AM	57445
Surr: DNOP	90.4	30.4-154		%Rec	1	1/11/2021 9:00:07 AM	57445
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.6		mg/Kg	1	1/9/2021 1:39:43 PM	G74508
Surr: BFB	108	75.3-105	S	%Rec	1	1/9/2021 1:39:43 PM	G74508
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.013		mg/Kg	1	1/9/2021 1:39:43 PM	B74508
Toluene	ND	0.026		mg/Kg	1	1/9/2021 1:39:43 PM	B74508
Ethylbenzene	ND	0.026		mg/Kg	1	1/9/2021 1:39:43 PM	B74508
Xylenes, Total	ND	0.052		mg/Kg	1	1/9/2021 1:39:43 PM	B74508
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	1/9/2021 1:39:43 PM	B74508

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 6

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101342

12-Jan-21

Client: EOG  
Project: Goat Roper LP 1

Sample ID: MB-57441		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 57441		RunNo: 74509						
Prep Date: 1/10/2021		Analysis Date: 1/10/2021		SeqNo: 2630317			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-57441		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 57441		RunNo: 74509						
Prep Date: 1/10/2021		Analysis Date: 1/10/2021		SeqNo: 2630318		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	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 Quantitative 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 Limit

Page 3 of 6

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101342

12-Jan-21

Client: EOG  
Project: Goat Roper LP I

Sample ID: MB-57445	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 57445	RunNo: 74518								
Prep Date: 1/11/2021	Analysis Date: 1/11/2021	SeqNo: 2630575 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	8.8		10.00		87.8	30.4	154			

Sample ID: LCS-57445	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 57445	RunNo: 74518								
Prep Date: 1/11/2021	Analysis Date: 1/11/2021	SeqNo: 2630576 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.7	68.9	141			
Surr: DNOP	4.4		5.000		88.0	30.4	154			

## 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 Quantitative 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 Limit

Page 4 of 6

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101342

12-Jan-21

Client: EOG  
Project: Goat Roper LP 1

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G74508	RunNo: 74508								
Prep Date:	Analysis Date: 1/9/2021	SeqNo: 2630293 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		113	75.3	105			S

Sample ID: 2.5ug ug lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G74508	RunNo: 74508								
Prep Date:	Analysis Date: 1/9/2021	SeqNo: 2630294 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	104	72.5	106			
Surr: BFB	1100		1000		115	75.3	105			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  
PQL Practical Quantitative 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 Limit

Page 5 of 6

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101342

12-Jan-21

Client: EOG  
Project: Goat Roper LP 1

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>B74508</b>		RunNo: <b>74508</b>							
Prep Date:	Analysis Date: <b>1/9/2021</b>		SeqNo: <b>2630309</b>		Units: <b>mg/Kg</b>					
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		109	80	120			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B74508	RunNo: 74508								
Prep Date:	Analysis Date: 1/9/2021	SeqNo: 2630310 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.8	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

## 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 Quantitative 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 Limit

Page 6 of 6



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

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2101342

RcptNo: 1

Received By: Emily Mocho 1/9/2021 8:40:00 AM

Completed By: Emily Mocho 1/9/2021 8:57:26 AM

Reviewed By:

### Chain of Custody

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

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
 4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
 5. Sample(s) in proper container(s)? Yes ☒ No ☐  
 6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
 7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
 8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
 9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒  
 10. Were any sample containers received broken? Yes ☐ No ☒  
 11. Does paperwork match bottle labels?  
 (Note discrepancies on chain of custody) Yes ☒ No ☐  
 12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
 13. Is it clear what analyses were requested? Yes ☒ No ☐  
 14. 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: EM 1/9/21

### Special Handling (if applicable)

15. 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:

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good				



## Chain-of-Custody Record

Client: EOG Resources, Inc.

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ Other  
☐ NELAC

☐ EDD (Type)[illegible]

Date:	Time:	Relinquished by:
-------	-------	------------------

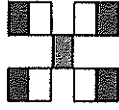
1-8-21 9:00<sup>PM</sup>

Date:	Time:	Relinquished by:
-------	-------	------------------

15/12	1900	Column
-------	------	--------

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

Released to Imaging: 7/7/2021 11:22:00 AM



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

Remarks:

1917



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

January 22, 2021

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Goat Roper LP 1

OrderNo.: 2101593

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 9 sample(s) on 1/15/2021 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](http://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 #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2101593

Date Reported: 1/22/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: VIC-25'

Project: Goat Roper LP 1

Collection Date: 1/13/2021 1:00:00 PM

Lab ID: 2101593-001

Matrix: SOIL

Received Date: 1/15/2021 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	ND	60		mg/Kg	20	1/18/2021 10:15:53 PM	57587
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/17/2021 4:57:22 AM	57568
Surr: BFB	105	70-130		%Rec	1	1/17/2021 4:57:22 AM	57568
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/19/2021 2:51:20 PM	57593
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/19/2021 2:51:20 PM	57593
Surr: DNOP	92.9	30.4-154		%Rec	1	1/19/2021 2:51:20 PM	57593
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	1/17/2021 4:57:22 AM	57568
Toluene	ND	0.049		mg/Kg	1	1/17/2021 4:57:22 AM	57568
Ethylbenzene	ND	0.049		mg/Kg	1	1/17/2021 4:57:22 AM	57568
Xylenes, Total	ND	0.097		mg/Kg	1	1/17/2021 4:57:22 AM	57568
Surr: 1,2-Dichloroethane-d4	99.3	70-130		%Rec	1	1/17/2021 4:57:22 AM	57568
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	1/17/2021 4:57:22 AM	57568
Surr: Dibromofluoromethane	109	70-130		%Rec	1	1/17/2021 4:57:22 AM	57568
Surr: Toluene-d8	98.9	70-130		%Rec	1	1/17/2021 4:57:22 AM	57568

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 15

## Analytical Report

Lab Order 2101593

Date Reported: 1/22/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: HS 0-13'

Project: Goat Roper LP 1

Collection Date: 1/13/2021 1:05:00 PM

Lab ID: 2101593-002

Matrix: SOIL

Received Date: 1/15/2021 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	ND	59		mg/Kg	20	1/18/2021 10:28:18 PM	57587
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/17/2021 5:25:42 AM	57568
Surr: BFB	104	70-130		%Rec	1	1/17/2021 5:25:42 AM	57568
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/19/2021 4:02:16 PM	57593
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/19/2021 4:02:16 PM	57593
Surr: DNOP	106	30.4-154		%Rec	1	1/19/2021 4:02:16 PM	57593
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	1/17/2021 5:25:42 AM	57568
Toluene	ND	0.049		mg/Kg	1	1/17/2021 5:25:42 AM	57568
Ethylbenzene	ND	0.049		mg/Kg	1	1/17/2021 5:25:42 AM	57568
Xylenes, Total	ND	0.098		mg/Kg	1	1/17/2021 5:25:42 AM	57568
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	1/17/2021 5:25:42 AM	57568
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	1/17/2021 5:25:42 AM	57568
Surr: Dibromofluoromethane	101	70-130		%Rec	1	1/17/2021 5:25:42 AM	57568
Surr: Toluene-d8	102	70-130		%Rec	1	1/17/2021 5:25:42 AM	57568

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 15

## Analytical Report

Lab Order 2101593

Date Reported: 1/22/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: HS 13-25'

Project: Goat Roper LP 1

Collection Date: 1/13/2021 1:03:00 PM

Lab ID: 2101593-003

Matrix: SOIL

Received Date: 1/15/2021 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	ND	60		mg/Kg	20	1/18/2021 10:40:42 PM	57568
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/17/2021 5:54:07 AM	57568
Surr: BFB	108	70-130		%Rec	1	1/17/2021 5:54:07 AM	57568
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/19/2021 4:25:49 PM	57593
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/19/2021 4:25:49 PM	57593
Surr: DNOP	114	30.4-154		%Rec	1	1/19/2021 4:25:49 PM	57593
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	1/17/2021 5:54:07 AM	57568
Toluene	ND	0.048		mg/Kg	1	1/17/2021 5:54:07 AM	57568
Ethylbenzene	ND	0.048		mg/Kg	1	1/17/2021 5:54:07 AM	57568
Xylenes, Total	ND	0.096		mg/Kg	1	1/17/2021 5:54:07 AM	57568
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	1/17/2021 5:54:07 AM	57568
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/17/2021 5:54:07 AM	57568
Surr: Dibromofluoromethane	105	70-130		%Rec	1	1/17/2021 5:54:07 AM	57568
Surr: Toluene-d8	99.7	70-130		%Rec	1	1/17/2021 5:54:07 AM	57568

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 15

## Analytical Report

Lab Order 2101593

Date Reported: 1/22/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: HN 0-13'

Project: Goat Roper LP 1

Collection Date: 1/13/2021 1:10:00 PM

Lab ID: 2101593-004

Matrix: SOIL

Received Date: 1/15/2021 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	170	60		mg/Kg	20	1/18/2021 10:53:07 PM	57587
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/17/2021 6:22:26 AM	57568
Surr: BFB	106	70-130		%Rec	1	1/17/2021 6:22:26 AM	57568
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/19/2021 4:49:13 PM	57593
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/19/2021 4:49:13 PM	57593
Surr: DNOP	98.9	30.4-154		%Rec	1	1/19/2021 4:49:13 PM	57593
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	1/17/2021 6:22:26 AM	57568
Toluene	ND	0.049		mg/Kg	1	1/17/2021 6:22:26 AM	57568
Ethylbenzene	ND	0.049		mg/Kg	1	1/17/2021 6:22:26 AM	57568
Xylenes, Total	ND	0.098		mg/Kg	1	1/17/2021 6:22:26 AM	57568
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/17/2021 6:22:26 AM	57568
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	1/17/2021 6:22:26 AM	57568
Surr: Dibromofluoromethane	109	70-130		%Rec	1	1/17/2021 6:22:26 AM	57568
Surr: Toluene-d8	96.6	70-130		%Rec	1	1/17/2021 6:22:26 AM	57568

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 15



## Analytical Report

Lab Order 2101593

Date Reported: 1/22/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: HN 13-25'

Project: Goat Roper LP 1

Collection Date: 1/13/2021 1:08:00 PM

Lab ID: 2101593-005

Matrix: SOIL

Received Date: 1/15/2021 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	ND	60		mg/Kg	20	1/19/2021 12:17:18 PM	57609
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2021 8:22:28 PM	57572
Surr: BFB	92.4	70-130		%Rec	1	1/18/2021 8:22:28 PM	57572
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/19/2021 5:12:35 PM	57593
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/19/2021 5:12:35 PM	57593
Surr: DNOP	92.2	30.4-154		%Rec	1	1/19/2021 5:12:35 PM	57593
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	1/18/2021 8:22:28 PM	57572
Toluene	ND	0.049		mg/Kg	1	1/18/2021 8:22:28 PM	57572
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2021 8:22:28 PM	57572
Xylenes, Total	ND	0.097		mg/Kg	1	1/18/2021 8:22:28 PM	57572
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	1/18/2021 8:22:28 PM	57572
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/18/2021 8:22:28 PM	57572
Surr: Dibromofluoromethane	83.9	70-130		%Rec	1	1/18/2021 8:22:28 PM	57572
Surr: Toluene-d8	97.0	70-130		%Rec	1	1/18/2021 8:22:28 PM	57572

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 15

## Analytical Report

Lab Order 2101593

Date Reported: 1/22/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: HE 0-13'

Project: Goat Roper LP 1

Collection Date: 1/13/2021 1:15:00 PM

Lab ID: 2101593-006

Matrix: SOIL

Received Date: 1/15/2021 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	160	60		mg/Kg	20	1/19/2021 12:29:42 PM	57609
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/18/2021 9:44:02 PM	57572
Surr: BFB	92.7	70-130		%Rec	1	1/18/2021 9:44:02 PM	57572
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/19/2021 5:35:52 PM	57593
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/19/2021 5:35:52 PM	57593
Surr: DNOP	80.8	30.4-154		%Rec	1	1/19/2021 5:35:52 PM	57593
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	1/18/2021 9:44:02 PM	57572
Toluene	ND	0.050		mg/Kg	1	1/18/2021 9:44:02 PM	57572
Ethylbenzene	ND	0.050		mg/Kg	1	1/18/2021 9:44:02 PM	57572
Xylenes, Total	ND	0.10		mg/Kg	1	1/18/2021 9:44:02 PM	57572
Surr: 1,2-Dichloroethane-d4	89.4	70-130		%Rec	1	1/18/2021 9:44:02 PM	57572
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/18/2021 9:44:02 PM	57572
Surr: Dibromofluoromethane	78.7	70-130		%Rec	1	1/18/2021 9:44:02 PM	57572
Surr: Toluene-d8	103	70-130		%Rec	1	1/18/2021 9:44:02 PM	57572

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 15

Analytical Report  
 Lab Order 2101593  
 Date Reported: 1/22/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: HE 13-25'

Project: Goat Roper LP 1

Collection Date: 1/13/2021 1:13:00 PM

Lab ID: 2101593-007

Matrix: SOIL

Received Date: 1/15/2021 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	ND	60		mg/Kg	20	1/19/2021 12:42:07 PM	57609
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/18/2021 11:05:49 PM	57572
Surr: BFB	89.0	70-130		%Rec	1	1/18/2021 11:05:49 PM	57572
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/19/2021 5:59:06 PM	57593
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/19/2021 5:59:06 PM	57593
Surr: DNOP	114	30.4-154		%Rec	1	1/19/2021 5:59:06 PM	57593
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	1/18/2021 11:05:49 PM	57572
Toluene	ND	0.050		mg/Kg	1	1/18/2021 11:05:49 PM	57572
Ethylbenzene	ND	0.050		mg/Kg	1	1/18/2021 11:05:49 PM	57572
Xylenes, Total	ND	0.099		mg/Kg	1	1/18/2021 11:05:49 PM	57572
Surr: 1,2-Dichloroethane-d4	88.1	70-130		%Rec	1	1/18/2021 11:05:49 PM	57572
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/18/2021 11:05:49 PM	57572
Surr: Dibromofluoromethane	79.7	70-130		%Rec	1	1/18/2021 11:05:49 PM	57572
Surr: Toluene-d8	99.7	70-130		%Rec	1	1/18/2021 11:05:49 PM	57572

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 15

## Analytical Report

Lab Order 2101593

Date Reported: 1/22/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: HW 0-13'

Project: Goat Roper LP 1

Collection Date: 1/13/2021 1:17:00 PM

Lab ID: 2101593-008

Matrix: SOIL

Received Date: 1/15/2021 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	95	60		mg/Kg	20	1/19/2021 12:54:31 PM	57609
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2021 11:33:01 PM	57572
Surr: BFB	91.0	70-130		%Rec	1	1/18/2021 11:33:01 PM	57572
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/19/2021 6:22:18 PM	57593
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/19/2021 6:22:18 PM	57593
Surr: DNOP	124	30.4-154		%Rec	1	1/19/2021 6:22:18 PM	57593
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	1/18/2021 11:33:01 PM	57572
Toluene	ND	0.049		mg/Kg	1	1/18/2021 11:33:01 PM	57572
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2021 11:33:01 PM	57572
Xylenes, Total	ND	0.098		mg/Kg	1	1/18/2021 11:33:01 PM	57572
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%Rec	1	1/18/2021 11:33:01 PM	57572
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	1/18/2021 11:33:01 PM	57572
Surr: Dibromofluoromethane	81.2	70-130		%Rec	1	1/18/2021 11:33:01 PM	57572
Surr: Toluene-d8	95.1	70-130		%Rec	1	1/18/2021 11:33:01 PM	57572

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 8 of 15

Analytical Report  
Lab Order 2101593  
Date Reported: 1/22/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: HW 13-25'

Project: Goat Roper LP 1

Collection Date: 1/13/2021 1:20:00 PM

Lab ID: 2101593-009

Matrix: SOIL

Received Date: 1/15/2021 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	ND	61		mg/Kg	20	1/19/2021 1:06:56 PM	57609
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2021 12:00:09 AM	57572
Surr: BFB	87.1	70-130		%Rec	1	1/19/2021 12:00:09 AM	57572
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/19/2021 8:37:30 PM	57592
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2021 8:37:30 PM	57592
Surr: DNOP	126	30.4-154		%Rec	1	1/19/2021 8:37:30 PM	57592
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	1/19/2021 12:00:09 AM	57572
Toluene	ND	0.049		mg/Kg	1	1/19/2021 12:00:09 AM	57572
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2021 12:00:09 AM	57572
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2021 12:00:09 AM	57572
Surr: 1,2-Dichloroethane-d4	88.7	70-130		%Rec	1	1/19/2021 12:00:09 AM	57572
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	1/19/2021 12:00:09 AM	57572
Surr: Dibromofluoromethane	81.9	70-130		%Rec	1	1/19/2021 12:00:09 AM	57572
Surr: Toluene-d8	97.5	70-130		%Rec	1	1/19/2021 12:00:09 AM	57572

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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

WO#: 2101593

22-Jan-21

**Client:** EOG  
**Project:** Goat Roper LP 1

Sample ID: <b>MB-57587</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57587</b>	RunNo: <b>74690</b>								
Prep Date: <b>1/18/2021</b>	Analysis Date: <b>1/18/2021</b>	SeqNo: <b>2636028</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-57587		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 57587		RunNo: 74690						
Prep Date: 1/18/2021		Analysis Date: 1/18/2021		SeqNo: 2636029		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Sample ID: MB-57609	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 57609	RunNo: 74716								
Prep Date: 1/19/2021	Analysis Date: 1/19/2021	SeqNo: 2636793 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-57609	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 57609	RunNo: 74716								
Prep Date: 1/19/2021	Analysis Date: 1/19/2021	SeqNo: 2636794 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.4	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 Quantitative 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 Limit

Page 10 of 15



## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101593

22-Jan-21

Client: EOG  
Project: Goat Roper LP 1

Sample ID: MB-57593	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 57593	RunNo: 74697								
Prep Date: 1/18/2021	Analysis Date: 1/19/2021	SeqNo: 2637248 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	10		10.00		105	30.4	154			

Sample ID: LCS-57593	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 57593	RunNo: 74697								
Prep Date: 1/18/2021	Analysis Date: 1/19/2021	SeqNo: 2637249 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	68.9	141			
Surr: DNOP	5.2		5.000		104	30.4	154			

Sample ID: MB-57585	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 57585	RunNo: 74697								
Prep Date: 1/18/2021	Analysis Date: 1/19/2021	SeqNo: 2637290 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	30.4	154			

Sample ID: LCS-57585	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 57585	RunNo: 74697								
Prep Date: 1/18/2021	Analysis Date: 1/20/2021	SeqNo: 2637291 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		112	30.4	154			

Sample ID: LCS-57592	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 57592	RunNo: 74729								
Prep Date: 1/18/2021	Analysis Date: 1/19/2021	SeqNo: 2637435 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.00	0	125	68.9	141			
Surr: DNOP	6.3		5.000		125	30.4	154			

Sample ID: MB-57592	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 57592	RunNo: 74729								
Prep Date: 1/18/2021	Analysis Date: 1/19/2021	SeqNo: 2637438 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

## 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 Quantitative 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 Limit

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

WO#: 2101593

22-Jan-21

**Client:** EOG  
**Project:** Goat Roper LP 1

Sample ID: <b>MB-57592</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57592</b>	RunNo: <b>74729</b>								
Prep Date: <b>1/18/2021</b>	Analysis Date: <b>1/19/2021</b>	SeqNo: <b>2637438</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	14		10.00		144	30.4	154			

**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 Quantitative 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 Limit

Page 12 of 15

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101593

22-Jan-21

Client: EOG  
Project: Goat Roper LP 1

Sample ID: mb-57568	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 57568	RunNo: 74670								
Prep Date: 1/15/2021	Analysis Date: 1/16/2021	SeqNo: 2635273 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: 1,2-Dichloroethane-d4	0.47		0.5000		93.5	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.49		0.5000		98.3	70	130			

Sample ID: lcs-57568	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 57568	RunNo: 74670								
Prep Date: 1/15/2021	Analysis Date: 1/16/2021	SeqNo: 2635274 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	110	80	120			
Toluene	1.1	0.050	1.000	0	112	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.5	0.10	3.000	0	117	80	120			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.50		0.5000		99.4	70	130			

Sample ID: mb-57572	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 57572	RunNo: 74676								
Prep Date: 1/15/2021	Analysis Date: 1/18/2021	SeqNo: 2635771 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: 1,2-Dichloroethane-d4	0.49		0.5000		98.2	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.41		0.5000		82.1	70	130			
Surr: Toluene-d8	0.53		0.5000		105	70	130			

## Qualifiers:

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

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101593

22-Jan-21

Client: EOG  
Project: Goat Roper LP 1

Sample ID: lcs-57572	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 57572	RunNo: 74676								
Prep Date: 1/15/2021	Analysis Date: 1/18/2021	SeqNo: 2635773 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.6	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	110	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.8	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Dibromofluoromethane	0.41		0.5000		82.0	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: 2101593-005ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: HN 13-25'	Batch ID: 57572	RunNo: 74712								
Prep Date: 1/15/2021	Analysis Date: 1/18/2021	SeqNo: 2636729 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9940	0	88.3	71.1	115			
Toluene	0.95	0.050	0.9940	0	95.5	79.6	132			
Ethylbenzene	1.0	0.050	0.9940	0	101	83.8	134			
Xylenes, Total	2.9	0.099	2.982	0	97.5	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.46		0.4970		92.4	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.4970		105	70	130			
Surr: Dibromofluoromethane	0.40		0.4970		79.7	70	130			
Surr: Toluene-d8	0.47		0.4970		95.3	70	130			

Sample ID: 2101593-005amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: HN 13-25'	Batch ID: 57572	RunNo: 74712								
Prep Date: 1/15/2021	Analysis Date: 1/18/2021	SeqNo: 2636730 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	71.1	115	0.819	20	
Toluene	0.97	0.050	1.000	0	97.1	79.6	132	2.29	20	
Ethylbenzene	1.0	0.050	1.000	0	101	83.8	134	1.24	20	
Xylenes, Total	2.9	0.10	3.000	0	95.1	82.4	132	1.85	20	
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130	0	0	
Surr: Dibromofluoromethane	0.39		0.5000		78.2	70	130	0	0	
Surr: Toluene-d8	0.50		0.5000		99.3	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
- PQL Practical Quantitative 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 Limit

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101593

22-Jan-21

Client: EOG  
Project: Goat Roper LP 1

Sample ID: mb-57568	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 57568	RunNo: 74670								
Prep Date: 1/15/2021	Analysis Date: 1/16/2021	SeqNo: 2635301 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	530		500.0		106	70	130			

Sample ID: lcs-57568	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 57568	RunNo: 74670								
Prep Date: 1/15/2021	Analysis Date: 1/16/2021	SeqNo: 2635302 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.2	70	130			
Surr: BFB	530		500.0		105	70	130			

Sample ID: mb-57572	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 57572	RunNo: 74676								
Prep Date: 1/15/2021	Analysis Date: 1/18/2021	SeqNo: 2635776 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	460		500.0		92.1	70	130			

Sample ID: lcs-57572	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 57572	RunNo: 74676								
Prep Date: 1/15/2021	Analysis Date: 1/18/2021	SeqNo: 2635777 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.2	70	130			
Surr: BFB	430		500.0		86.3	70	130			

## Qualifiers:

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

Page 15 of 15



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

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2101593

RcptNo: 1

Received By: Isaiah Ortiz

1/15/2021 7:36:00 AM

*IOX*

Completed By: Isalah Ortiz

1/15/2021 8:32:24 AM

*IOX*

Reviewed By: *SGC 1/15/21*

### Chain of Custody

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

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. 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: *JR 1/15/21*

### Special Handling (if applicable)

15. 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:

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present			



## Chain-of-Custody Record

Client: EOG Resources, INC.Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ AZ Compliance☐ NELAC ☐ Other☐ EDD (Type)Turn-Around Time: 5 Day  
☐ Standard ☐ Rush

Project Name:

Grant Roper LP #1

Project #:

Project Manager:

Chase SettleSampler: Chase SettleOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including cp): 0.3 ± 0 (°C)

Container Type and #

Preservative Type

HEAL No. 2101593

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Relinquished by:

Date:

Relinquished by:

Date:

Received by:

Date:

Via:

Time

Received by:

Date:

Via:

Time

Remarks:

## Analysis Request

BTEX / MTBE / TMBs (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

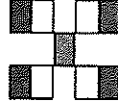
RCRA 8 Metals

F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 25, 2021

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Goat Roper LP #1

OrderNo.: 2103751

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/16/2021 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](http://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 #NM0901

Sincerely,



Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2103751

Date Reported: 3/25/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C1

Project: Goat Roper LP #1

Collection Date: 3/15/2021 8:00:00 AM

Lab ID: 2103751-001

Matrix: SOIL

Received Date: 3/16/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	63	60		mg/Kg	20	3/19/2021 7:26:17 PM	58816
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	1200	99		mg/Kg	10	3/18/2021 12:05:54 PM	58778
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	3/18/2021 12:05:54 PM	58778
Surr: DNOP	0	70-130	S	%Rec	10	3/18/2021 12:05:54 PM	58778
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	120	24		mg/Kg	5	3/19/2021 4:03:00 AM	58771
Surr: BFB	151	75.3-105	S	%Rec	5	3/19/2021 4:03:00 AM	58771
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.12		mg/Kg	5	3/19/2021 4:03:00 AM	58771
Toluene	ND	0.24		mg/Kg	5	3/19/2021 4:03:00 AM	58771
Ethylbenzene	ND	0.24		mg/Kg	5	3/19/2021 4:03:00 AM	58771
Xylenes, Total	ND	0.48		mg/Kg	5	3/19/2021 4:03:00 AM	58771
Surr: 4-Bromofluorobenzene	144	80-120	S	%Rec	5	3/19/2021 4:03:00 AM	58771

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 14

## Analytical Report

Lab Order 2103751

Date Reported: 3/25/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C2

Project: Goat Roper LP #1

Collection Date: 3/15/2021 8:05:00 AM

Lab ID: 2103751-002

Matrix: SOIL

Received Date: 3/16/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	100	60		mg/Kg	20	3/19/2021 7:38:41 PM	58816
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	300	9.3		mg/Kg	1	3/18/2021 10:58:34 AM	58778
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2021 10:58:34 AM	58778
Surr: DNOP	75.5	70-130		%Rec	1	3/18/2021 10:58:34 AM	58778
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/19/2021 4:23:00 AM	58771
Surr: BFB	108	75.3-105	S	%Rec	5	3/19/2021 4:23:00 AM	58771
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.12		mg/Kg	5	3/19/2021 4:23:00 AM	58771
Toluene	ND	0.24		mg/Kg	5	3/19/2021 4:23:00 AM	58771
Ethylbenzene	ND	0.24		mg/Kg	5	3/19/2021 4:23:00 AM	58771
Xylenes, Total	ND	0.48		mg/Kg	5	3/19/2021 4:23:00 AM	58771
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	5	3/19/2021 4:23:00 AM	58771

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 14

## Analytical Report

Lab Order 2103751

Date Reported: 3/25/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C3

Project: Goat Roper LP #1

Collection Date: 3/15/2021 8:11:00 AM

Lab ID: 2103751-003

Matrix: SOIL

Received Date: 3/16/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	150	60		mg/Kg	20	3/19/2021 7:51:06 PM	58816
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	110	9.8		mg/Kg	1	3/18/2021 11:08:27 AM	58778
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2021 11:08:27 AM	58778
Surr: DNOP	90.2	70-130		%Rec	1	3/18/2021 11:08:27 AM	58778
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	5.7	4.9		mg/Kg	1	3/19/2021 4:42:00 AM	58771
Surr: BFB	124	75.3-105	S	%Rec	1	3/19/2021 4:42:00 AM	58771
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/19/2021 4:42:00 AM	58771
Toluene	ND	0.049		mg/Kg	1	3/19/2021 4:42:00 AM	58771
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2021 4:42:00 AM	58771
Xylenes, Total	ND	0.099		mg/Kg	1	3/19/2021 4:42:00 AM	58771
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/19/2021 4:42:00 AM	58771

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 14

Analytical Report  
 Lab Order 2103751  
 Date Reported: 3/25/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C4

Project: Goat Roper LP #1

Collection Date: 3/15/2021 8:16:00 AM

Lab ID: 2103751-004

Matrix: SOIL

Received Date: 3/16/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	62	60		mg/Kg	20	3/19/2021 8:03:31 PM	58816
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	850	9.8		mg/Kg	1	3/18/2021 11:18:19 AM	58778
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2021 11:18:19 AM	58778
Surr: DNOP	88.6	70-130		%Rec	1	3/18/2021 11:18:19 AM	58778
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	37	24		mg/Kg	5	3/19/2021 5:02:00 AM	58771
Surr: BFB	166	75.3-105	S	%Rec	5	3/19/2021 5:02:00 AM	58771
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.12		mg/Kg	5	3/19/2021 5:02:00 AM	58771
Toluene	ND	0.24		mg/Kg	5	3/19/2021 5:02:00 AM	58771
Ethylbenzene	ND	0.24		mg/Kg	5	3/19/2021 5:02:00 AM	58771
Xylenes, Total	ND	0.48		mg/Kg	5	3/19/2021 5:02:00 AM	58771
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	5	3/19/2021 5:02:00 AM	58771

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 14



## Analytical Report

Lab Order 2103751

Date Reported: 3/25/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C5

Project: Goat Roper LP #1

Collection Date: 3/15/2021 8:20:00 AM

Lab ID: 2103751-005

Matrix: SOIL

Received Date: 3/16/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	66	60		mg/Kg	20	3/19/2021 8:15:56 PM	58816
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	660	9.4		mg/Kg	1	3/18/2021 8:33:25 AM	58794
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2021 8:33:25 AM	58794
Surr: DNOP	80.0	70-130		%Rec	1	3/18/2021 8:33:25 AM	58794
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	89	25		mg/Kg	5	3/20/2021 4:36:18 PM	58791
Surr: BFB	246	75.3-105	S	%Rec	5	3/20/2021 4:36:18 PM	58791
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/20/2021 4:36:18 PM	58791
Toluene	ND	0.25		mg/Kg	5	3/20/2021 4:36:18 PM	58791
Ethylbenzene	ND	0.25		mg/Kg	5	3/20/2021 4:36:18 PM	58791
Xylenes, Total	ND	0.49		mg/Kg	5	3/20/2021 4:36:18 PM	58791
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	5	3/20/2021 4:36:18 PM	58791

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 14

## Analytical Report

Lab Order 2103751

Date Reported: 3/25/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C6

Project: Goat Roper LP #1

Collection Date: 3/15/2021 8:26:00 AM

Lab ID: 2103751-006

Matrix: SOIL

Received Date: 3/16/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: VP
Chloride	94	60		mg/Kg	20	3/19/2021 8:28:20 PM	58816
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	420	8.6		mg/Kg	1	3/18/2021 8:42:54 AM	58794
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/18/2021 8:42:54 AM	58794
Surr: DNOP	70.7	70-130		%Rec	1	3/18/2021 8:42:54 AM	58794
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	31	24		mg/Kg	5	3/20/2021 1:49:53 AM	58791
Surr: BFB	150	75.3-105	S	%Rec	5	3/20/2021 1:49:53 AM	58791
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/20/2021 1:49:53 AM	58791
Toluene	ND	0.24		mg/Kg	5	3/20/2021 1:49:53 AM	58791
Ethylbenzene	ND	0.24		mg/Kg	5	3/20/2021 1:49:53 AM	58791
Xylenes, Total	ND	0.49		mg/Kg	5	3/20/2021 1:49:53 AM	58791
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	5	3/20/2021 1:49:53 AM	58791

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 14

# Hall Environmental Analysis Laboratory, Inc.

**Analytical Report**  
 Lab Order 2103751  
 Date Reported: 3/25/2021

**CLIENT:** EOG **Client Sample ID:** C7  
**Project:** Goat Roper LP #1 **Collection Date:** 3/15/2021 8:31:00 AM  
**Lab ID:** 2103751-007 **Matrix:** SOIL **Received Date:** 3/16/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	66	60		mg/Kg	20	3/19/2021 8:40:44 PM	58816
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	1200	93		mg/Kg	10	3/18/2021 10:29:18 AM	58794
Motor Oil Range Organics (MRO)	ND	460		mg/Kg	10	3/18/2021 10:29:18 AM	58794
Surr: DNOP	0	70-130	S	%Rec	10	3/18/2021 10:29:18 AM	58794
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	32	24		mg/Kg	5	3/20/2021 2:36:51 AM	58791
Surr: BFB	145	75.3-105	S	%Rec	5	3/20/2021 2:36:51 AM	58791
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	3/20/2021 2:36:51 AM	58791
Toluene	ND	0.24		mg/Kg	5	3/20/2021 2:36:51 AM	58791
Ethylbenzene	ND	0.24		mg/Kg	5	3/20/2021 2:36:51 AM	58791
Xylenes, Total	ND	0.49		mg/Kg	5	3/20/2021 2:36:51 AM	58791
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	5	3/20/2021 2:36:51 AM	58791

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report  
 Lab Order 2103751  
 Date Reported: 3/25/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: C8  
 Project: Goat Roper LP #1 Collection Date: 3/15/2021 8:36:00 AM  
 Lab ID: 2103751-008 Matrix: SOIL Received Date: 3/16/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Analyst: VP							
Chloride	84	59		mg/Kg	20	3/19/2021 8:53:09 PM	58816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: JME							
Diesel Range Organics (DRO)	300	9.7		mg/Kg	1	3/18/2021 9:01:54 AM	58794
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2021 9:01:54 AM	58794
Surr: DNOP	74.4	70-130		%Rec	1	3/18/2021 9:01:54 AM	58794
EPA METHOD 8015D: GASOLINE RANGE Analyst: NSB							
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/20/2021 3:00:25 AM	58791
Surr: BFB	109	75.3-105	S	%Rec	5	3/20/2021 3:00:25 AM	58791
EPA METHOD 8021B: VOLATILES Analyst: NSB							
Benzene	ND	0.12		mg/Kg	5	3/20/2021 3:00:25 AM	58791
Toluene	ND	0.24		mg/Kg	5	3/20/2021 3:00:25 AM	58791
Ethylbenzene	ND	0.24		mg/Kg	5	3/20/2021 3:00:25 AM	58791
Xylenes, Total	ND	0.48		mg/Kg	5	3/20/2021 3:00:25 AM	58791
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	5	3/20/2021 3:00:25 AM	58791

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103751

25-Mar-21

Client: EOG  
Project: Goat Roper LP #1

Sample ID: MB-58816		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 58816		RunNo: 76062						
Prep Date: 3/18/2021		Analysis Date: 3/19/2021		SeqNo: 2693200		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-58816		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 58816		RunNo: 76062						
Prep Date: 3/18/2021		Analysis Date: 3/19/2021		SeqNo: 2693201			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

## Qualifiers:

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

Page 9 of 14

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103751

25-Mar-21

Client: EOG  
Project: Goat Roper LP #1

Sample ID: MB-58778	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 58778	RunNo: 76025								
Prep Date: 3/17/2021	Analysis Date: 3/18/2021	SeqNo: 2691572 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.8	70	130			

Sample ID: MB-58794	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 58794	RunNo: 76025								
Prep Date: 3/17/2021	Analysis Date: 3/18/2021	SeqNo: 2691573 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.5	70	130			

Sample ID: LCS-58778	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 58778	RunNo: 76025								
Prep Date: 3/17/2021	Analysis Date: 3/18/2021	SeqNo: 2691574 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	49	10	50.00	0	99.0	68.9	141			
Surr: DNOP	4.3		5.000		85.8	70	130			

Sample ID: LCS-58794	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 58794	RunNo: 76025								
Prep Date: 3/17/2021	Analysis Date: 3/18/2021	SeqNo: 2691575 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	49	10	50.00	0	98.1	68.9	141			
Surr: DNOP	4.2		5.000		83.3	70	130			

Sample ID: MB-58798	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 58798	RunNo: 76064								
Prep Date: 3/18/2021	Analysis Date: 3/19/2021	SeqNo: 2693658 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP	9.7		10.00		97.0	70	130			
------------	-----	--	-------	--	------	----	-----	--	--	--

## Qualifiers:

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

Page 10 of 14



## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103751

25-Mar-21

Client: EOG  
Project: Goat Roper LP #1

Sample ID: LCS-58798	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 58798	RunNo: 76064								
Prep Date: 3/18/2021	Analysis Date: 3/19/2021	SeqNo: 2693659 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.8	70	130			

## Qualifiers:

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

Page 11 of 14

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103751

25-Mar-21

Client: EOG  
Project: Goat Roper LP #1

Sample ID: LCS-58771	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 58771	RunNo: 76060								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2692502 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	117	80	120			
Surr: BFB	1000		1000		104	75.3	105			

Sample ID: MB-58771	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 58771	RunNo: 76060								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2692503 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	910		1000		90.9	75.3	105			

Sample ID: mb-58791	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 58791	RunNo: 76071								
Prep Date: 3/17/2021	Analysis Date: 3/19/2021	SeqNo: 2693921 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	980		1000		97.5	75.3	105			

Sample ID: lcs-58791	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 58791	RunNo: 76071								
Prep Date: 3/17/2021	Analysis Date: 3/19/2021	SeqNo: 2693922 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	97.4	80	120			
Surr: BFB	1100		1000		108	75.3	105			S

Sample ID: mb-58863	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 58863	RunNo: 76109								
Prep Date: 3/20/2021	Analysis Date: 3/22/2021	SeqNo: 2695161 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		94.6	75.3	105			

Sample ID: lcs-58863	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 58863	RunNo: 76109								
Prep Date: 3/20/2021	Analysis Date: 3/22/2021	SeqNo: 2695162 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	75.3	105			

## 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 Quantitative 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 Limit

Page 12 of 14

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103751

25-Mar-21

Client: EOG  
Project: Goat Roper LP #1

Sample ID: LCS-58771	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 58771		RunNo: 76060							
Prep Date: 3/16/2021	Analysis Date: 3/18/2021		SeqNo: 2692508		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	80	120			

Sample ID: MB-58771	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 58771	RunNo: 76060								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2692509 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	0.97		1.000		96.5	80	120			

Sample ID: mb-58791	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 58791	RunNo: 76071								
Prep Date: 3/17/2021	Analysis Date: 3/19/2021	SeqNo: 2693972 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	0.98		1.000		98.2	80	120			

Sample ID: LCS-58791	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 58791		RunNo: 76071							
Prep Date: 3/17/2021	Analysis Date: 3/19/2021		SeqNo: 2693973		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.5	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

## 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 Quantitative 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 Limit

Page 13 of 14

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103751

25-Mar-21

Client: EOG  
Project: Goat Roper LP #1

Sample ID: mb-58863	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 58863	RunNo: 76109								
Prep Date: 3/20/2021	Analysis Date: 3/22/2021	SeqNo: 2695199			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	80	120			

Sample ID: LCS-58863	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 58863	RunNo: 76109								
Prep Date: 3/20/2021	Analysis Date: 3/22/2021	SeqNo: 2695200			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	80	120			

## 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 Quantitative 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 Limit

Page 14 of 14



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

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2103751

RcptNo: 1

Received By: Juan Rojas

3/16/2021 7:30:00 AM

Completed By: Cheyenne Cason

3/16/2021 8:54:15 AM

Reviewed By: SPA 3.16.21

### Chain of Custody

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

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐ Not required
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $\leq 2$  or  $>12$  unless noted)

Adjusted?

Checked by:

TO

3/16/21

### Special Handling (if applicable)

15. 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:

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good				
2	16.2	Good				
3	2.4	Good				

## Chain-of-Custody Record

Client: EOC Resources Inc.Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type) \_\_\_\_\_Turn-Around Time: 5 Day☒ Standard ☐ Rush

Project Name:

Cont Roger LP #1

Project #:

Project Manager:

Chase Suttle

Sampler:

Chase SuttleOn Ice: ☒ Yes ☐ No# of Coolers: 3Cooler Temp (including CP): See Check List (°C)

Container Type and #

Preservative Type

HEAL No.

4oz Class 1ICE2103751001007003004005006007008Date: 3-15-21Time: 11:30Relinquished by: [Signature]Date: 3-15-21Time: 1900Relinquished by: [Signature]

Received by:

Via:

Date:

Time:

Received by:

Via:

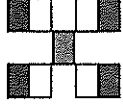
Date:

Time:

Remarks:

83 / of 11.9 + 0.1 = 2.016.1 + 0.1 = 16.22.3 + 0.1 = 2.4

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

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

BTX / MTBE / TMBs (8021)

TPH: 8015D (GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

(C) F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

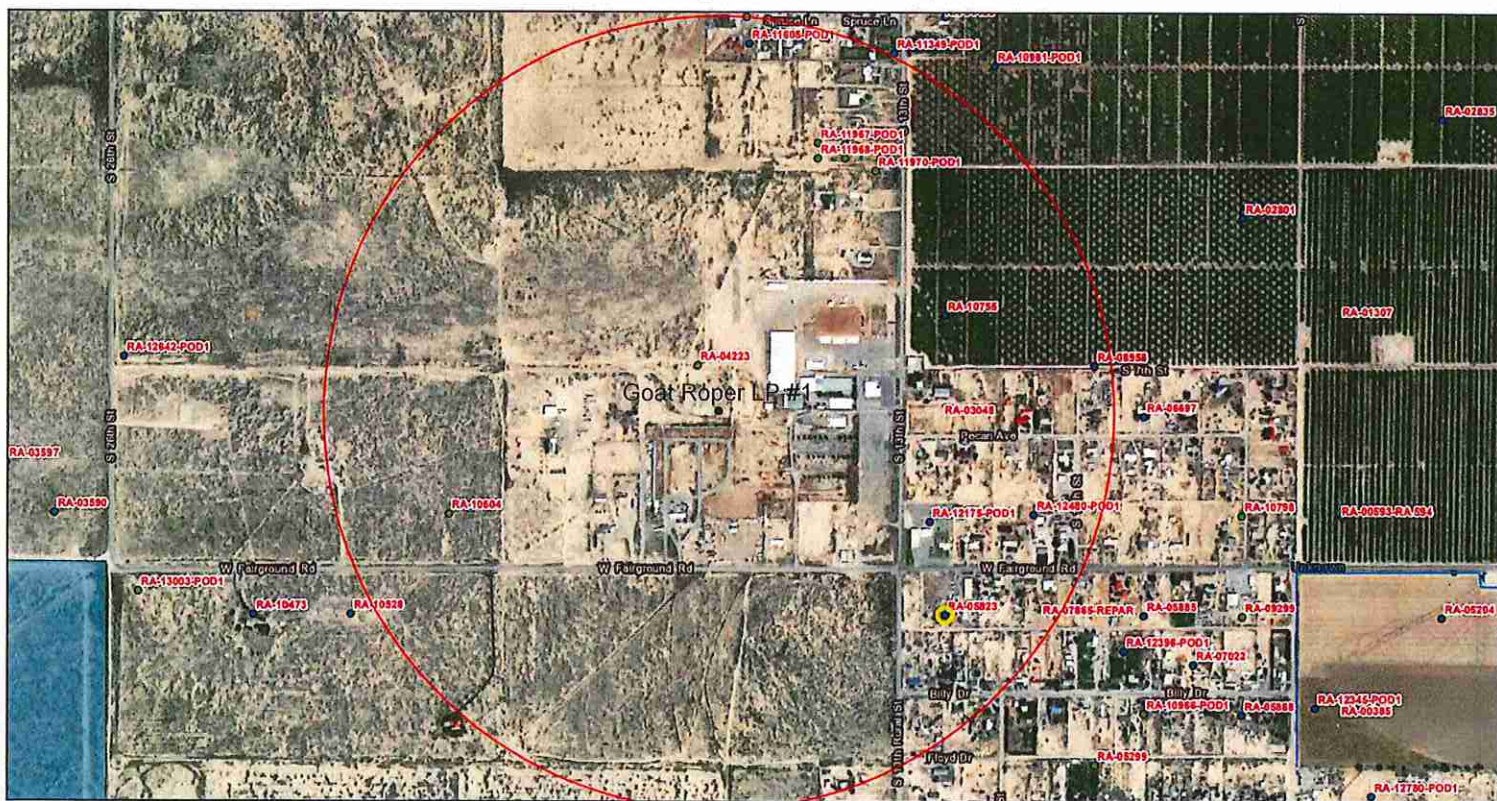
Total Coliform (Present/Absent)



# Appendix B



## NMOSE Groundwater Data

## Publicly Generated Map

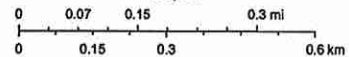


3/31/2021, 11:59:23 AM

GIS WATERS PODs  OSE District Boundary Conveyances

-  Active
  Pending
  Ditch
  Both Estates
  Site Boundaries

1:9,028



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

The New Mexico Office of the State Engineer (OSE) provides this geographic data and any associated metadata "as is" without warranty of any kind, including but not limited to its completeness, fitness for a particular use, or accuracy of its content, positional or otherwise. It is the sole responsibility of the user to



# New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64Q16Q4	Sec	Tws	Rng	X	Y
RA 11605	POD1	1	4	2	30 17S 26E	554681	3630208

Driller License: 1064

Driller Company: DELFORD W. MARTIN

Driller Name: MARTIN, DELFORD

Drill Start Date: 05/02/2010

Drill Finish Date: 05/05/2010

Plug Date:

Log File Date: 05/20/2010

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 15 GPM

Casing Size: 5.00

Depth Well: 240 feet

Depth Water: 148 feet

Water Bearing Stratifications:	Top	Bottom	Description
	148	240	Sandstone/Gravel/Conglomerate

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.

3/31/21 11:57 AM POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
RA	11349 POD1	2	30	17S	26E	554975	3630191

Driller License:	1400	Driller Company:	SOUTHEAST DRILLING COMPANY		
Driller Name:	HAMMOND, MARK				
Drill Start Date:	06/17/2008	Drill Finish Date:	06/23/2008	Plug Date:	
Log File Date:	07/01/2008	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	20 GPM
Casing Size:	7.00	Depth Well:	240 feet	Depth Water:	143 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	5	Other/Unknown
	5	25	Shale/Mudstone/Siltstone
	25	40	Sandstone/Gravel/Conglomerate
	40	90	Shale/Mudstone/Siltstone
	90	175	Shale/Mudstone/Siltstone
	175	230	Sandstone/Gravel/Conglomerate
	230	240	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	182	240

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.

3/31/21 11:58 AM

POINT OF DIVERSION SUMMARY





## New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64Q16Q4	Sec	Tws	Rng	X	Y
RA	10755	3	1	3	29 17S 26E	555081	3629663*

Driller License: 1448 Driller Company: KENNARD DRILLING  
Driller Name: KENNARD, DALE  
Drill Start Date: 05/17/2005 Drill Finish Date: 05/23/2005 Plug Date:  
Log File Date: 06/02/2005 PCW Rcv Date: Source: Shallow  
Pump Type: Pipe Discharge Size: Estimated Yield: 30 GPM  
Casing Size: 5.00 Depth Well: 287 feet Depth Water: 130 feet

Water Bearing Stratifications:	Top	Bottom	Description
	180	185	Limestone/Dolomite/Chalk
	195	205	Limestone/Dolomite/Chalk
	210	220	Limestone/Dolomite/Chalk
	265	287	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	207	287

\*UTM location was derived from PLSS - see Help

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

3/31/21 11:50 AM

POINT OF DIVERSION SUMMARY



## New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64Q16Q4	Sec	Tws	Rng	X	Y
RA 12175	POD1	3	3	3	29 17S 26E	555054	3629244

Driller License: 1632	Driller Company: HOPPER PUMP & DRILLING, INC.	
Driller Name: CURRY, CALEB		
Drill Start Date: 10/01/2014	Drill Finish Date: 10/08/2014	Plug Date:
Log File Date: 10/23/2014	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 60 GPM
Casing Size: 5.00	Depth Well: 260 feet	Depth Water: 200 feet

Water Bearing Stratifications:	Top	Bottom	Description
	200	220	Sandstone/Gravel/Conglomerate
	220	230	Sandstone/Gravel/Conglomerate
	230	260	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	260

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.

3/31/21 11:50 AM

POINT OF DIVERSION SUMMARY



## New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 12480	POD1	4	3	3	29	17S	26E	555266	3629260

Driller License: 1632 Driller Company: HOPPER PUMP & DRILLING, INC.  
Driller Name: CURRY, CALEB

Drill Start Date: 06/21/2017 Drill Finish Date: 06/23/2017 Plug Date:  
Log File Date: 07/05/2017 PCW Rcv Date: Source: Shallow  
Pump Type: Pipe Discharge Size: Estimated Yield: 50 GPM  
Casing Size: 5.00 Depth Well: 260 feet Depth Water: 142 feet

Water Bearing Stratifications:	Top	Bottom	Description
	60	190	Sandstone/Gravel/Conglomerate
	200	260	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	260

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.

3/31/21 11:58 AM

POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
RA 10528		Q64	Q16	Q4	Sec Tws Rng	553878	3629049*
		1	2	1	31 17S 26E		

Driller License: 1229		Driller Company: CARTER'S WELL DRILLING	
Driller Name:			
Drill Start Date: 06/25/2004		Drill Finish Date: 07/01/2004	
Log File Date: 08/12/2004		Plug Date: Shallow	
Pump Type: SUBMER		Source: Shallow	
Casing Size: 4.50		Pipe Discharge Size: 30 GPM	
Depth Well: 331 feet		Estimated Yield: 30 GPM	
		Depth Water: 150 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	185	210	
			Sandstone/Gravel/Conglomerate
Casing Perforations:	Top	Bottom	
	100	331	

\*UTM location was derived from PLSS - see Help

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

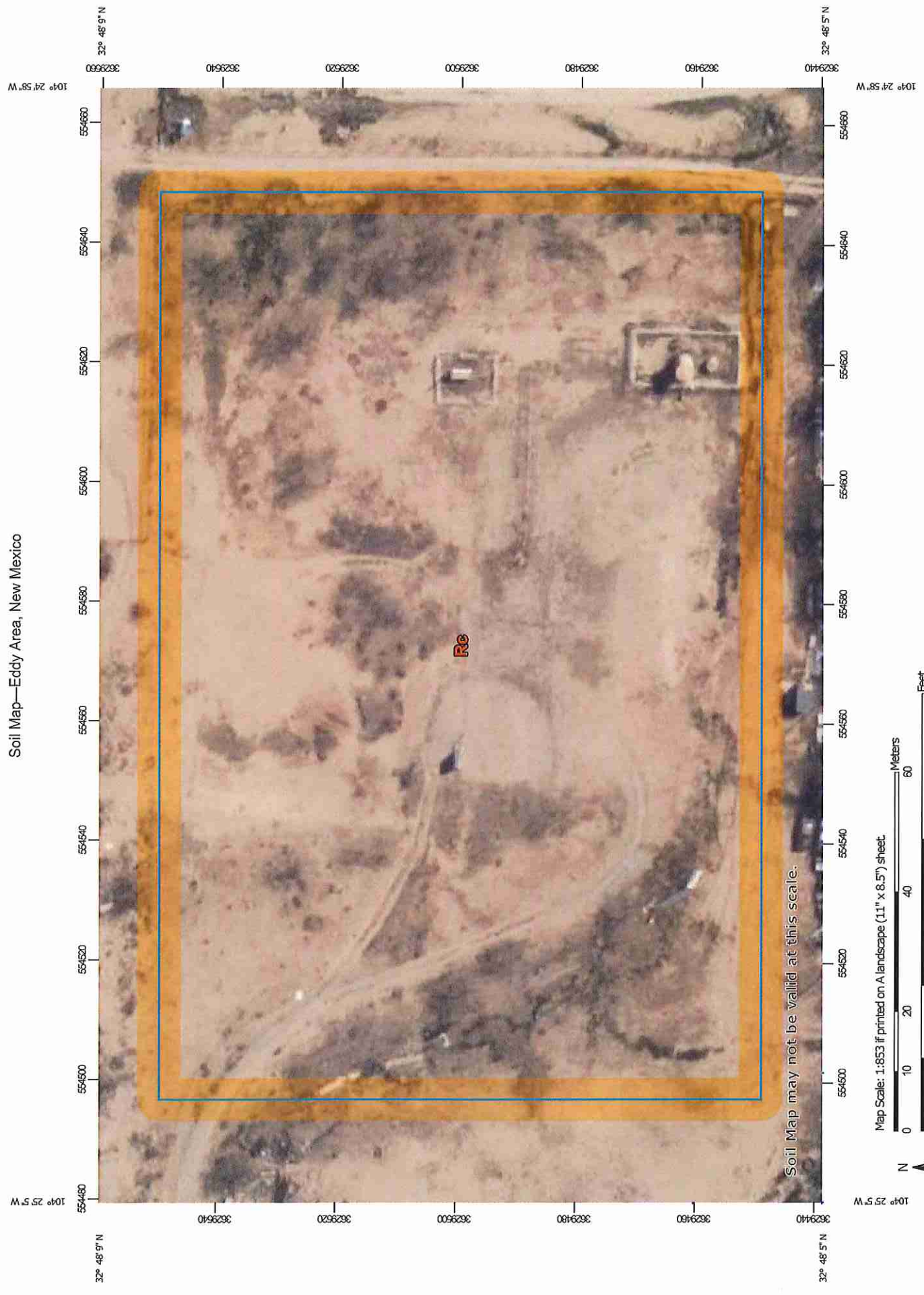
3/31/21 11:50 AM

POINT OF DIVERSION SUMMARY

# Appendix C

## NRCS Soil Data

Soil Map—Eddy Area, New Mexico







































































Map Scale: 1:853 if printed on A landscape (11" x 8.5") sheet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

## Soil Map—Eddy Area, New Mexico

## MAP LEGEND

<b>Area of Interest (AOI)</b>		<b>Area of Interest (AOI)</b>	
<b>Soils</b>		<b>Soils</b>	
	Soil Map Unit Polygons		Soil Map Unit Polygons
	Soil Map Unit Lines		Soil Map Unit Lines
	Soil Map Unit Points		Soil Map Unit Points
<b>Special Point Features</b>		<b>Special Point Features</b>	
	Blowout		Blowout
	Borrow Pit		Borrow Pit
	Clay Spot		Clay Spot
	Closed Depression		Closed Depression
	Gravel Pit		Gravel Pit
	Gravelly Spot		Gravelly Spot
	Landfill		Landfill
	Lava Flow		Lava Flow
	Marsh or swamp		Marsh or swamp
	Mine or Quarry		Mine or Quarry
	Miscellaneous Water		Miscellaneous Water
	Perennial Water		Perennial Water
	Rock Outcrop		Rock Outcrop
	Saline Spot		Saline Spot
	Sandy Spot		Sandy Spot
	Severely Eroded Spot		Severely Eroded Spot
	Sinkhole		Sinkhole
	Slide or Slip		Slide or Slip
	Sodic Spot		Sodic Spot
<b>Water Features</b>		<b>Water Features</b>	
	Streams and Canals		Streams and Canals
<b>Transportation</b>		<b>Transportation</b>	
	Rails		Rails
	Interstate Highways		Interstate Highways
	US Routes		US Routes
	Major Roads		Major Roads
	Local Roads		Local Roads
<b>Background</b>		<b>Background</b>	
	Aerial Photography		Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 16, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Rc	Reagan loam, 0 to 1 percent slopes	3.8	100.0%
Totals for Area of Interest		3.8	100.0%



# Appendix D

## FEMA Flood Map



# FEMA Flood Map Service Center: Search By Address

Navigation

Search

Languages

MSC Home ([/portal/](#))

MSC Search by Address  
([/portal/search](#))

MSC Search All Products  
([/portal/advanceSearch](#))

▼ MSC Products and Tools  
([/portal/resources/productsandtools](#))

Hazus  
([/portal/resources/hazus](#))

LOMC Batch Files  
([/portal/resources/lomc](#))

Product Availability  
([/portal/productAvailability](#))

MSC Frequently Asked  
Questions (FAQs)  
([/portal/resources/faq](#))

MSC Email Subscriptions  
([/portal/subscriptionHome](#))

Contact MSC Help  
([/portal/resources/contact](#))

Enter an address, place, or coordinates: ?

Eddy County New Mexico

Search

Whether you are in a high risk zone or not, you may need [flood insurance \(https://www.fema.gov/national-flood-insurance-program\)](https://www.fema.gov/national-flood-insurance-program) because most homeowners insurance doesn't cover flood damage. If you live in an area with low or moderate flood risk, you are 5 times more likely to experience flood than a fire in your home over the next 30 years. For many, a National Flood Insurance Program's flood insurance policy could cost less than \$400 per year. Call your insurance agent today and protect what you've built.

Learn more about [steps you can take \(https://www.fema.gov/what-mitigation\)](https://www.fema.gov/what-mitigation) to reduce flood risk damage.



[Share This Page.](#)

[Home \(/www.fema.gov/\)](http://www.fema.gov/) [Download Plug-ins \(/www.fema.gov/download-plug-ins\)](http://www.fema.gov/download-plug-ins) [About Us \(/www.fema.gov/about-agency\)](http://www.fema.gov/about-agency) [Privacy Policy \(/www.fema.gov/privacy-policy\)](http://www.fema.gov/privacy-policy) [FOIA \(/www.fema.gov/foia\)](http://www.fema.gov/foia) [Office of the Inspector General \(/www.oig.dhs.gov/\)](http://www.oig.dhs.gov/) [Strategic Plan \(/www.fema.gov/fema-strategic-plan\)](http://www.fema.gov/fema-strategic-plan) [Whitehouse.gov \(/www.whitehouse.gov\)](http://www.whitehouse.gov) [DHS.gov \(/www.dhs.gov\)](http://www.dhs.gov) [Ready.gov \(/www.ready.gov\)](http://www.ready.gov) [USA.gov \(/www.usa.gov\)](http://www.usa.gov) [DisasterAssistance.gov \(/www.disasterassistance.gov/\)](http://www.disasterassistance.gov)



Official website of the Department of Homeland Security



# Appendix E

## Form C-141

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 Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NRM2035039644
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # (assigned by OCD)
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

### Location of Release Source

Latitude 32.80201 Longitude -104.41693  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Goat Roper LP #1	Site Type Battery
Date Release Discovered 12/01/2020	API# (if applicable) 30-015-23059

Unit Letter	Section	Township	Range	County
P	30	17S	26E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 19	Volume Recovered (bbls) 0
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

A pinhole was discovered approximately 8 inches up from the bottom of the tank. The tank had previously been gauged so the lost volume was 16 inches of the tank capacity which calculates to 1.16 barrels per inch, making the total volume lost to be just under 19 barrels of condensate.

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2035039644
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Chase Settle</u> Signature: <u><i>Chase Settle</i></u> email: <u>Chase_Settle@eogresources.com</u>	Title: <u>Rep Safety &amp; Environmental II</u> Date: <u>12/03/2020</u> Telephone: <u>575-748-1471</u>
<b>OCD Only</b>  Received by: _____ Date: _____	

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2035039644
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	130 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2035039644
District RP	
Facility ID	
Application ID	

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

Printed Name: Chase SettleTitle: Rep Safety & Environmental SrSignature: *Chase Settle*Date: 3/29/2021email: Chase\_Settle@eogresources.comTelephone: 575-748-1471**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2035039644
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Chase Settle

Title: Rep Safety & Environmental Sr

Signature: Chase Settle

Date: 3/29/2021

email: Chase\_Settle@eogresources.com

Telephone: 575-748-1471

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



State of New Mexico  
Oil Conservation Division

Incident ID	NRM2035039644
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Chase Settle

Title: Rep Safety & Environmental Sr

Signature: Chase Settle

Date: 3/29/2021

email: Chase\_Settle@eogresources.com

Telephone: 575-748-1471

**OCD Only**

Received by: Robert Hamlet

Date: 7/7/2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Robert Hamlet

Date: 7/7/2021

**District I**

1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 22487

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 22487
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Workplan/Remediation Plan is approved with the following conditions: When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. Please make sure all groundwater data is included in closure report summary. Soil contamination limits need to meet closure criteria standards for proven depth to water determination. Please make sure the contaminated material not meeting OCD closure criteria standards is delineated, removed, and hauled off site to a division-approved facility within 90 days of remediation plan approval.	7/7/2021