

EOG Resources, Inc. Artesia Division Office 105 S. 4th Street Artesia, N. M. 88210

January 6, 2017

Mr. Mike Bratcher/Ms. Crystal Weaver NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

Amole AMM State #3

30-015-28552

Section 16, T19S-R25E 660' FSL & 1980' FWL Eddy County, New Mexico

2RP-4029

Mr. Bratcher/Ms. Weaver,

EOG Y Resources, Inc. is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated December 8, 2016.

If there are no objections with the scope of work described in the plan, EOG Y Resources, Inc. will have a contractor begin work on or after January 21, 2017.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

EOG Y Resources, Inc.

Chase Settle
Rep Safety & Environmental II

EOG Y Resources, Inc.

Amole AMM State #3 Work Plan

Section 16, T19S-R25E

Eddy County, New Mexico

January 6, 2017

2RP-4029

I. Location

From the intersection of US 285 and Rocking R Red Road, take Rocking R Red Road west for 6 miles, then turn north onto lease road and follow for 500 feet, then turn east on lease road for 1250 feet to the entrance of the location.

II. Background

On December 8, 2016, EOG Y Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 12 B/O & 8 B/PW with 11 B/O & 7 B/PW recovered. The affected area is approximately 75 feet by 50 feet around the wellhead on the production pad. Failure of a pressure gauge on the wellhead caused the release. Initial delineation samples were taken (12/15/2016) and sent to a NMOCD approved laboratory (12/29/2016, results enclosed).

III. Surface and Ground Water

Area surface geology is Cenozoic Quaternary. The ChevronTexaco Trend Map displays at this location (Section 16, T19S-R25E) that depth to groundwater is approximately 70 feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the as following:

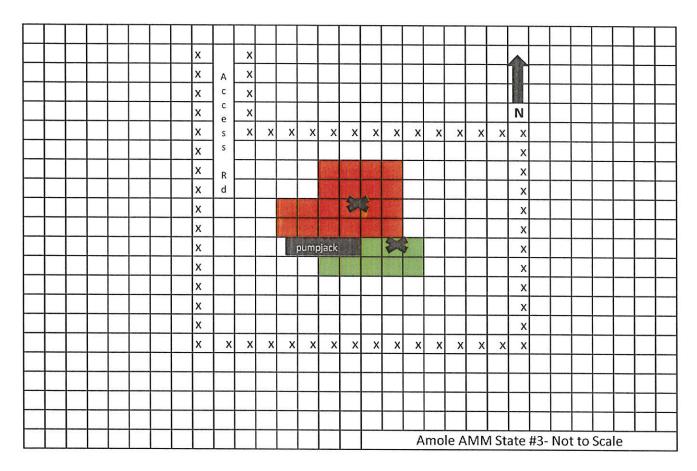
Depth to ground water 50-99'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

IV. Soils

The area consists of soils that are loam based topsoil on top of a caliche layer that is further interspersed with clay seams providing a low permeability barrier to prohibit further migration of contaminants into the subsurface.

V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (70'), and a decrease in chlorides, EOG Y Resources, Inc. will excavate four (4) feet of impacted soil from the release area, hauling all excavated soil to a NMOCD approved facility for disposal. EOG Y Resources, Inc. will then backfill the excavated area with four (4) feet of caliche. There will be no re-vegetative measures taken since the release occurred on the production pad of an actively producing well. The TPH & BTEX for the remaining soil are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141 Final Report will be submitted to the NMOCD requesting closure of the site.



Site Ranking is **TEN** (10). DTGW 50-99' (approximately 70', Section 16, T19S-R25E, per Trend Map) All results are ppm. Chlorides for documentation

Released: 12 B/O & 8 B/PW; Recovered: 11 B/O & 7 B/PW Release Date: 12/2/2016

Sample ID	Analytical ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	1612939	12/15/2016	Backhoe	1'	ND	ND	ND	990
S1-2'	1612939	12/15/2016	Backhoe	2'	ND	ND	ND	980
S1-3'	1612939	12/15/2016	Backhoe	3'	ND	ND	ND	1200
S1-4'	1612939	12/15/2016	Backhoe	4'	ND	ND	ND	840
S1-6'	1612939	12/15/2016	Backhoe	6'	ND	ND	ND	150
S1-8'	1612939	12/15/2016	Backhoe	8'	ND	ND	ND	180
S1-10'	1612939	12/15/2016	Backhoe	10'	ND	ND	ND	300
S2-1 [']	1612939	12/15/2016	Backhoe	1'	71.3	430	1500	10000
S2-2 [']	1612939	12/15/2016	Backhoe	2'	0.79	5.3	78	12000
S2-3'	1612939	12/15/2016	Backhoe	3'	ND	ND	ND	300
S2-4'	1612939	12/15/2016	Backhoe	4'	ND	ND	13	1400
S2-6'	1612939	12/15/2016	Backhoe	6'	ND	ND	ND	470
S2-8 [']	1612939	12/15/2016	Backhoe	8'	ND	ND	ND	170
S2-10'	1612939	12/15/2016	Backhoe	10'	ND	ND	ND	150



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

December 29, 2016

Chase Settle
EOG Resources
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

FAX

RE: Amole AMM State 3

OrderNo.: 1612939

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 14 sample(s) on 12/16/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

and the

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-1'

Project: Amole AMM State 3

Collection Date: 12/15/2016 7:53:00 AM

Lab ID:

1612939-001

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	990	75	mg/Kg	50	12/27/2016 7:30:33 PM	29334
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	8			Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	12/21/2016 3:09:00 AM	29273
Surr: DNOP	85.5	70-130	%Rec	1	12/21/2016 3:09:00 AM	29273
EPA METHOD 8015D: GASOLINE RANG	SE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/20/2016 11:36:21 PM	1 29265
Surr: BFB	95.5	68.3-144	%Rec	1	12/20/2016 11:36:21 PM	1 29265
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	12/20/2016 11:36:21 PM	1 29265
Toluene	ND	0.048	mg/Kg	1	12/20/2016 11:36:21 PM	1 29265
Ethylbenzene	ND	0.048	mg/Kg	1	12/20/2016 11:36:21 PM	A 29265
Xylenes, Total	ND	0.096	mg/Kg	1	12/20/2016 11:36:21 PM	A 29265
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	12/20/2016 11:36:21 PM	A 29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 19 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-2'

Project:

Amole AMM State 3

Collection Date: 12/15/2016 7:55:00 AM

Lab ID:

1612939-002

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: LGT
Chloride	980	75	mg/Kg	50	12/27/2016 7:42:57 I	PM 29334
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANIC	S			Anal	st: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	12/21/2016 3:30:29	AM 29273
Surr: DNOP	71.7	70-130	%Rec	1	12/21/2016 3:30:29	AM 29273
EPA METHOD 8015D: GASOLINE RA	NGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/20/2016 11:59:30	PM 29265
Surr: BFB	87.0	68.3-144	%Rec	1	12/20/2016 11:59:30	PM 29265
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.023	mg/Kg	1	12/20/2016 11:59:30	PM 29265
Toluene	ND	0.047	mg/Kg	1	12/20/2016 11:59:30	PM 29265
Ethylbenzene	ND	0.047	mg/Kg	1	12/20/2016 11:59:30	PM 29265
Xylenes, Total	ND	0.093	mg/Kg	1	12/20/2016 11:59:30	PM 29265
Surr: 4-Bromofluorobenzene	94.8	80-120	%Rec	1	12/20/2016 11:59:30	PM 29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 19 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-3'

Project:

Amole AMM State 3

Collection Date: 12/15/2016 7:57:00 AM

Lab ID:

1612939-003

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	1200	75	mg/Kg	50	12/27/2016 7:55:21 F	PM 29334
EPA METHOD 8015M/D: DIESEL RAN	NGE ORGANIC	8			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/28/2016 6:30:20 F	PM 29384
Surr: DNOP	117	70-130	%Rec	1	12/28/2016 6:30:20 F	M 29384
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/21/2016 12:22:47	AM 29265
Surr: BFB	85.6	68.3-144	%Rec	1	12/21/2016 12:22:47	AM 29265
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.023	mg/Kg	1	12/21/2016 12:22:47	AM 29265
Toluene	ND	0.046	mg/Kg	1	12/21/2016 12:22:47	AM 29265
Ethylbenzene	ND	0.046	mg/Kg	1	12/21/2016 12:22:47	AM 29265
Xylenes, Total	ND	0.092	mg/Kg	1	12/21/2016 12:22:47	AM 29265
Surr: 4-Bromofluorobenzene	92.5	80-120	%Rec	1	12/21/2016 12:22:47	AM 29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 19 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-4'

Project:

Amole AMM State 3

Collection Date: 12/15/2016 7:58:00 AM

Lab ID:

1612939-004

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: MRA
Chloride	840	30	mg/Kg	20	12/22/2016 12:15:45	PM 29361
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/28/2016 7:39:47	PM 29384
Surr: DNOP	102	70-130	%Rec	1	12/28/2016 7:39:47	PM 29384
EPA METHOD 8015D: GASOLINE RA	ANGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2016 12:46:03	AM 29265
Surr: BFB	83.9	68.3-144	%Rec	1	12/21/2016 12:46:03	AM 29265
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.024	mg/Kg	1	12/21/2016 12:46:03	AM 29265
Toluene	ND	0.048	mg/Kg	1	12/21/2016 12:46:03	AM 29265
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2016 12:46:03	AM 29265
Xylenes, Total	ND	0.095	mg/Kg	1	12/21/2016 12:46:03	AM 29265
Surr: 4-Bromofluorobenzene	89.6	80-120	%Rec	1	12/21/2016 12:46:03	AM 29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-6'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:04:00 AM

Lab ID: 1612939-005 Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	150	30	mg/Kg	20	12/22/2016 12:52:59	PM 29361
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/21/2016 4:35:20 A	M 29273
Surr: DNOP	70.1	70-130	%Rec	1	12/21/2016 4:35:20 A	M 29273
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2016 1:09:21 A	M 29265
Surr: BFB	85.1	68.3-144	%Rec	1	12/21/2016 1:09:21 A	M 29265
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.025	mg/Kg	1	12/21/2016 1:09:21 A	M 29265
Toluene	ND	0.049	mg/Kg	1	12/21/2016 1:09:21 A	M 29265
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2016 1:09:21 A	M 29265
Xylenes, Total	ND	0.099	mg/Kg	1	12/21/2016 1:09:21 A	M 29265
Surr: 4-Bromofluorobenzene	89.7	80-120	%Rec	1	12/21/2016 1:09:21 A	M 29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 19 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-8'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:10:00 AM

Lab ID: 1612939-006

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qua	ıl Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	180	30	mg/Kg	20	12/22/2016 1:30:13 PM	29361
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	\$			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/24/2016 3:36:13 AM	29273
Surr: DNOP	109	70-130	%Rec	1	12/24/2016 3:36:13 AM	29273
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2016 1:32:31 AM	29265
Surr: BFB	85.0	68.3-144	%Rec	1	12/21/2016 1:32:31 AM	29265
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	12/21/2016 1:32:31 AM	29265
Toluene	ND	0.049	mg/Kg	1	12/21/2016 1:32:31 AM	29265
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2016 1:32:31 AM	29265
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2016 1:32:31 AM	29265
Surr: 4-Bromofluorobenzene	91.6	80-120	%Rec	1	12/21/2016 1:32:31 AM	29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 19
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-10'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:16:00 AM

Lab ID: 1612939-007

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	300	30	mg/Kg	20	12/22/2016 1:42:38 PM	29361
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/21/2016 5:18:25 AM	29273
Surr: DNOP	72.2	70-130	%Rec	1	12/21/2016 5:18:25 AM	29273
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2016 1:55:44 AM	29265
Surr: BFB	85.0	68.3-144	%Rec	1	12/21/2016 1:55:44 AM	29265
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	12/21/2016 1:55:44 AM	29265
Toluene	ND	0.048	mg/Kg	1	12/21/2016 1:55:44 AM	29265
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2016 1:55:44 AM	29265
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2016 1:55:44 AM	29265
Surr: 4-Bromofluorobenzene	91.2	80-120	%Rec	1	12/21/2016 1:55:44 AM	29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-1'

Project:

Amole AMM State 3

Collection Date: 12/15/2016 8:21:00 AM

Lab ID: 1613

1612939-008

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LGT
Chloride	10000	750		mg/Kg	500	12/27/2016 8:07:46 PM	29361
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	: TOM
Diesel Range Organics (DRO)	1500	97		mg/Kg	10	12/21/2016 5:39:56 AM	29273
Surr: DNOP	0	70-130	S	%Rec	10	12/21/2016 5:39:56 AM	29273
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	430	98		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Surr: BFB	157	68.3-144	S	%Rec	20	12/21/2016 2:18:51 AM	29265
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	1.3	0.49		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Toluene	23	0.98		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Ethylbenzene	22	0.98		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Xylenes, Total	25	2.0		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	20	12/21/2016 2:18:51 AM	29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources Client Sample ID: S2-2'

Project: Amole AMM State 3 Collection Date: 12/15/2016 8:23:00 AM

Lab ID: 1612939-009 Matrix: SOIL Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	12000	750	mg/Kg	500	12/27/2016 8:20:11 P	M 29361
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANIC	S			Analy:	st: TOM
Diesel Range Organics (DRO)	78	10	mg/Kg	1	12/22/2016 9:49:55 P	M 29270
Surr: DNOP	93.8	70-130	%Rec	1	12/22/2016 9:49:55 P	M 29270
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: NSB
Gasoline Range Organics (GRO)	5.3	5.0	mg/Kg	1	12/21/2016 2:41:56 A	M 29265
Surr: BFB	106	68.3-144	%Rec	1	12/21/2016 2:41:56 A	M 29265
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.025	mg/Kg	1	12/21/2016 2:41:56 A	M 29265
Toluene	0.13	0.050	mg/Kg	1	12/21/2016 2:41:56 A	M 29265
Ethylbenzene	0.26	0.050	mg/Kg	1	12/21/2016 2:41:56 A	M 29265
Xylenes, Total	0.40	0.10	mg/Kg	1	12/21/2016 2:41:56 A	M 29265
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	12/21/2016 2:41:56 A	M 29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 9 of 19
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-3'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:25:00 AM

Lab ID:

1612939-010

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	300	30	mg/Kg	20	12/22/2016 2:19:52 F	M 29361
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANIC	8			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/22/2016 10:13:07	PM 29270
Surr: DNOP	89.5	70-130	%Rec	1	12/22/2016 10:13:07	PM 29270
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/21/2016 3:05:02 A	M 29265
Surr: BFB	87.0	68.3-144	%Rec	1	12/21/2016 3:05:02 A	M 29265
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.024	mg/Kg	1	12/21/2016 3:05:02 A	M 29265
Toluene	ND	0.047	mg/Kg	1	12/21/2016 3:05:02	M 29265
Ethylbenzene	ND	0.047	mg/Kg	1	12/21/2016 3:05:02 A	M 29265
Xylenes, Total	ND	0.095	mg/Kg	1	12/21/2016 3:05:02	M 29265
Surr: 4-Bromofluorobenzene	94.3	80-120	%Rec	1	12/21/2016 3:05:02 A	M 29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 10 of 19 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-4'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:27:00 AM

Lab ID: 1612939-011 Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	1400	750	mg/Kg	500	12/27/2016 8:32:36 PM	1 29361
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	3			Analys	t: TOM
Diesel Range Organics (DRO)	13	9.6	mg/Kg	1	12/24/2016 3:57:40 AM	1 29274
Surr: DNOP	89.2	70-130	%Rec	1	12/24/2016 3:57:40 AM	1 29274
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/21/2016 12:22:41 P	M 29265
Surr: BFB	92.8	68.3-144	%Rec	1	12/21/2016 12:22:41 P	M 29265
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	12/21/2016 12:22:41 P	M 29265
Toluene	ND	0.047	mg/Kg	1	12/21/2016 12:22:41 P	M 29265
Ethylbenzene	ND	0.047	mg/Kg	1	12/21/2016 12:22:41 P	M 29265
Xylenes, Total	ND	0.093	mg/Kg	1	12/21/2016 12:22:41 P	M 29265
Surr: 4-Bromofluorobenzene	99.5	80-120	%Rec	1	12/21/2016 12:22:41 P	M 29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limit Page 11 of 19 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-6'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:31:00 AM

Lab ID: 1612939-012

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF D	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	470	30	mg/Kg	20	12/22/2016 2:44:42 PM	29361
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/24/2016 5:02:03 AM	29274
Surr: DNOP	92.9	70-130	%Rec	1	12/24/2016 5:02:03 AM	29274
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/21/2016 12:46:01 PM	A 29265
Surr: BFB	88.5	68.3-144	%Rec	1	12/21/2016 12:46:01 Pi	A 29265
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	12/21/2016 12:46:01 PM	d 29265
Toluene	ND	0.046	mg/Kg	1	12/21/2016 12:46:01 PM	M 29265
Ethylbenzene	ND	0.046	mg/Kg	1	12/21/2016 12:46:01 PM	и 29265
Xylenes, Total	ND	0.092	mg/Kg	1	12/21/2016 12:46:01 PI	и 29265
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	1	12/21/2016 12:46:01 PI	M 29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-8'

Project:

Analyses

Amole AMM State 3

Collection Date: 12/15/2016 9:36:00 AM Received Date: 12/16/2016 9:05:00 AM

Lab ID: 1612939-013

Matrix: SOIL

PQL Qual Units Result DF Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA

Chloride	170	30	mg/Kg	20	12/22/2016 2:57:06 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/24/2016 5:23:36 AM	29274
Surr: DNOP	93.4	70-130	%Rec	1	12/24/2016 5:23:36 AM	29274
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2016 1:09:37 PM	29265
Surr: BFB	89.7	68.3-144	%Rec	1	12/21/2016 1:09:37 PM	29265
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	12/21/2016 1:09:37 PM	29265
Toluene	ND	0.049	mg/Kg	1	12/21/2016 1:09:37 PM	29265
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2016 1:09:37 PM	29265
Xylenes, Total				4	12/21/2016 1:09:37 PM	00005
Aylenes, Total	ND	0.097	mg/Kg	1	12/21/2016 1:09:37 PM	29265
Surr: 4-Bromofluorobenzene	ND 97.2	0.097 80-120	mg/Kg %Rec	1	12/21/2016 1:09:37 PM 12/21/2016 1:09:37 PM	

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 13 of 19 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-10'

Project: Amole AMM State 3

Collection Date: 12/15/2016 9:42:00 AM

Lab ID:

1612939-014

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	150	30	mg/Kg	20	12/22/2016 3:09:31 PM	29361
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/24/2016 5:45:03 AM	29274
Surr: DNOP	90.6	70-130	%Rec	1	12/24/2016 5:45:03 AM	29274
EPA METHOD 8015D: GASOLINE RANG	SE .				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/21/2016 1:33:02 PM	29265
Surr: BFB	88.7	68.3-144	%Rec	1	12/21/2016 1:33:02 PM	29265
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	12/21/2016 1:33:02 PM	29265
Toluene	ND	0.047	mg/Kg	1	12/21/2016 1:33:02 PM	29265
Ethylbenzene	ND	0.047	mg/Kg	1	12/21/2016 1:33:02 PM	29265
Xylenes, Total	ND	0.095	mg/Kg	1	12/21/2016 1:33:02 PM	29265
Surr: 4-Bromofluorobenzene	95.4	80-120	%Rec	1	12/21/2016 1:33:02 PM	29265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limit Page 14 of 19 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612939

29-Dec-16

Client:

EOG Resources

Project:

Amole AMM State 3

Sample ID MB-29361

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 29361

RunNo: 39626

Analysis Date: 12/22/2016

SeqNo: 1241411

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Qual

Analyte Chloride

PQL ND 1.5

Sample ID LCS-29361

Prep Date: 12/22/2016

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 29361

Result

RunNo: 39626

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

Prep Date: 12/22/2016 Analysis Date: 12/22/2016

PQL

SeqNo: 1241412

LowLimit HighLimit

Analyte Chloride

Result 14 SPK value SPK Ref Val 15.00

92.2

%REC

90 110 %RPD **RPDLimit** Qual

Sample ID MB-29334

Client ID: LCSS

Client ID: PBS

Result

ND

14

SampType: mblk Batch ID: 29334

PQL

1.5

1.5

TestCode: EPA Method 300.0: Anions RunNo: 39630

Units: mg/Kg

Analyte

Prep Date: 12/21/2016

Analysis Date: 12/22/2016

SeqNo: 1241440 SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

Qual

Chloride

Sample ID LCS-29334

SampType: Ics Batch ID: 29334

15.00

TestCode: EPA Method 300.0: Anions RunNo: 39630

Units: mg/Kg

RPDLimit

Analyte

Prep Date: 12/21/2016

Analysis Date: 12/22/2016 PQL

1.5

SeqNo: 1241441

HighLimit

%RPD

Qual

Chloride

Result

SPK value SPK Ref Val 0

%REC LowLimit 92.9

90

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

RPD outside accepted recovery limits R

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified

Page 15 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612939

29-Dec-16

Client:

EOG Resources

Project: Amole A	AMM State 3			
Sample ID LCS-29273	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: LCSS	Batch ID: 29273	RunNo: 39526		
Prep Date: 12/19/2016	Analysis Date: 12/20/2016	SeqNo: 1238583	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	45 10 50.00	19929 242	116	
Surr: DNOP	4.7 5.000	94.4 70	130	No. 2011
Sample ID MB-29273	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 29273	RunNo: 39526		
Prep Date: 12/19/2016	Analysis Date: 12/20/2016	SeqNo: 1238584	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 10			-
Surr: DNOP	10 10.00	99.6 70	130	
Sample ID LCS-29274	SampType: LCS	TestCode: EPA Method	l 8015M/D: Diesel Range	Organics
Client ID: LCSS	Batch ID: 29274	RunNo: 39554		
Prep Date: 12/19/2016	Analysis Date: 12/21/2016	SeqNo: 1239312	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	48 10 50.00		116	
Surr: DNOP	4.2 5.000	84.6 70	130	
Sample ID MB-29274	SampType: MBLK	TestCode: EPA Method	l 8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 29274	RunNo: 39554		
Prep Date: 12/19/2016	Analysis Date: 12/21/2016	SeqNo: 1239313	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	000	2.00	
Surr: DNOP	8.2 10.00	82.2 70	130	
Sample ID MB-29270	SampType: MBLK	TestCode: EPA Method	d 8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 29270	RunNo: 39590		
Prep Date: 12/19/2016	Analysis Date: 12/22/2016	SeqNo: 1240365	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	000 70	400	
Surr: DNOP	8.7 10.00	86.6 70	130	
Sample ID LCS-29270	SampType: LCS	TestCode: EPA Method	d 8015M/D: Diesel Range	Organics
Client ID: LCSS	Batch ID: 29270	RunNo: 39590		
Prep Date: 12/19/2016	Analysis Date: 12/22/2016	SeqNo: 1240399	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 16 of 19

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612939

29-Dec-16

Client:

EOG Resources

Project:

Amole AMM State 3

Project: Amole	AMM State 3			
Sample ID LCS-29270	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: LCSS	Batch ID: 29270	RunNo: 39590		
Prep Date: 12/19/2016	Analysis Date: 12/22/2016	SeqNo: 1240399	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 85.4 63.8	116	
Surr: DNOP	3.8 5.000	77.0 70	130	
Sample ID LCS-29384	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: LCSS	Batch ID: 29384			
Prep Date: 12/23/2016	Analysis Date: 12/28/2016	SeqNo: 1243438	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	45 10 50.00	0 89.2 63.8	116	
Surr: DNOP	4.1 5.000	82.6 70	130	
Sample ID MB-29384	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 29384	RunNo: 39672		
Prep Date: 12/23/2016	Analysis Date: 12/28/2016	SeqNo: 1243440	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 10			
Surr: DNOP	8.7 10.00	86.6 70	130	

Qualifiers:

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

Page 17 of 19

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612939

29-Dec-16

Client:

EOG Resources

Project:

Amole AMM State 3

Sample ID MB-29265	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range											
Client ID: PBS	Batch	ID: 29	265	R	RunNo: 3	9531									
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	SeqNo: 1238292 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	900		1000		89.5										

Sample ID LCS-29265	SampT	pe: LC	S	Test	Code: El	PA Method	8015D: Gaso	line Rang	e					
Client ID: LCSS	Batch	ID: 292	265	R	unNo: 3	9531								
Prep Date: 12/19/2016	Analysis Date: 12/20/2016 SeqNo: 1238293 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	106	74.6	123			***************************************				
Surr: BFB	1100	Transfer of the Control of the Contr												

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 18 of 19

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612939

29-Dec-16

Client:

EOG Resources

Project:

Amole AMM State 3

Sample ID MB-29265	SampT	ype: ME	BLK	Test	Code: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: 29	265	R	tunNo: 3	9531				
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	S	eqNo: 1	238327	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID LCS-29265	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batch	1D: 29 :	265	F	RunNo: 3	9531									
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	S	SeqNo: 1	238328	Units: mg/K	(g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	0.96	0.025	1.000	0	95.6	75.2	115	***************************************							
Toluene	1.0	0.050	1.000	0	99.6	80.7	112								
Ethylbenzene	1.0	0.050	1.000	0	101	78.9	117								
Xylenes, Total	3.1	0.10	3.000	0	102	79.2	115								
Surr: 4-Bromofluorobenzene	1.1		1.000	106 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

Page 19 of 19

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com RcptNo: 1 Work Order Number: 1612939 EOG/Yates Client Name: Received by/date: 12/16/2016 9:05:00 AM Ashley Gallegos Logged By: 12/19/2016 8:46:52 AM Ashley Gallegos Completed By: Reviewed By: Chain of Custody Not Present No [Yes [] 1. Custody seals intact on sample bottles? Not Present No L Yes V 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In NA [] No [] Yes 🗹 4. Was an attempt made to cool the samples? NA [] No 🗔 Yes 🔽 Were all samples received at a temperature of >0° C to 6.0°C No [Yes 🗸 6. Sample(s) in proper container(s)? No [] Yes 7. Sufficient sample volume for indicated test(s)? No [V 8. Are samples (except VOA and ONG) properly preserved? Yes NA ... No V Yes 9. Was preservative added to bottles? No VOA Vials 🗹 No [Yes 🗌 10. VOA vials have zero headspace? Yes No V 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 Yes V 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 13. Are matrices correctly identified on Chain of Custody? No [] Yes 🔽 14. Is it clear what analyses were requested? Checked by: No 🗌 Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA V Yes 🗌 No [] 16. Was client notified of all discrepancies with this order? Date Person Notified: eMail Phone Fax In Person Via: By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By Good

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X Standarc Project Name:	500	Project Manager		-	Sampler. On Ice:	Ter	Container Type and #	1 - 402	1 - 4oz.	1 - 4oz.	1 - 4oz.	1 - 40z.	1 - 4oz.	1 - 4oz.	1 - 4oz.	1 - 4oz.	1 - 40z.	1 - 4oz.	1 - 4oz.	Received by:	Received by:
cord	5 South 4th Street Artesia, NM 88210	settle@eogresources.com	Verdischillary III. The state of the state o	☐ Level 4 (Full Validation)			Sample Request ID	\$1-1	\$1-2'	S1-3'	S1-4'	S1-6'	\$1-8'	81-10	.S2-1	\$2-2.	\$2-3'	S2-4'	S2-6'	by:	Time: Relinquished by:
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HALL ENVIRONMENTAL	ANALYSIS LABORAIORT	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analy	eel)	eiG\a	9) H (Gassel) (Gassel) (Gassel) (Gassel)	19T - 19T - 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OA' (1) (2) (3) (4) (4) (5) (6) (7) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	bord bord; bord; bord fo; fo; AOV	BTEX + N HGT HGM HGT HGM (Mei BGM) (PN BGM) (PN BGM) (PO BSGOB (N BSGOB (N BSGOB (N BSGOB) (N BS	×		×						Remarks: Results needed by 12/27/2016.			In additional 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.
Turn-Around Time:	X Standarc	Project Name:	Amole AMM State #3	Project #:	30-015-28552		Chase Settle	PO # 205. 0750	r: Chase Settle	7 6 INC	Sample Temperature: 23.0	Container Preservative HEAL No. X Type and # Type 11019039 E	Ü		1-40z. ICE CE X						Date Time	Sandward hur Date Time	Lecender by	contracted to other accredited laboratories. This serves as notice of this p
Chain-of-Custody Record			ailing Address:		14th Street Artesia, NM 88210	5/5-/U3-653/	nail or Fax#: chase settle@eogresources.com	Standard Level 4 (Full Validation)		1 NELAP 🗆 Other	j EDD (Type)	Date Time Matrix Sample Request ID		12H5Z016 9:36A Soil 32-0	32-10' Soil							4-30 P	Date: Time: Relinquished by:	Is negative complete submitted to Hall Environmental may be sub