

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

August 21, 2018

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

Re:

Kleeman PB Battery 30-015-00253 Section 26, T18S-R26E Eddy County, New Mexico 2RP-4422 RECEIVED

AUG 2 7 2018

DISTRICT II-ARTESIA O.C.D.

Mr. Bratcher/Ms. Pruett,

EOG Y Resources, Inc. is submitting the enclosed remediation work plan for the above referenced site. The plan is being submitted accompanying the C-141 report dated on September 28, 2017

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 September 4, 2018.

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

Respectfully,

Chase Settle Rep Safety & Environmental II EOG Y Resources, Inc.



Kleeman PB Battery
Remediation Work Plan
Section 26, T18S-R26E
Eddy County, New Mexico
August 21, 2018
2RP-4422



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### I. Location

Take US 285 south for 9 miles and turn east onto E Kincaid Ranch Road and drive 2.1 miles, location will be on the left.

### II. Background

On September 28, 2017, EOG Y Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 27 B/O and 110 B/PW with 1 B/O and 0 B/PW recovered. The affected area is 40 feet by 20 feet around the tanks and extending north effecting an area of 50 feet by 6 feet. The release was caused by a hole in the bottom of the production tank. Initial vertical soil sampling was conducted at the location on December 4, 2017. Subsequent vertical soil sampling was conducted on March 6, 2018. Initial horizontal sampling was conducted on March 8, 2018. Further vertical sampling was conducted in two areas on April 3, 2018 with further horizontal sampling for two areas occurring on June 5, 2018.

### III. Surface and Ground Water

Area surface geology is Paleozoic Permian. Based on information from the New Mexico Office of the State Engineer (NMOSE) database and United States Geological Survey National Water Information System (USGS) regarding this location (Section 26, T18S-R26E), depth to groundwater is approximately 58' feet. Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being the Pecos River at 3 miles away.

### IV. NMOCD Assessment Criteria

The site assessment criteria is as follows:

Depth to ground water > 50-99'
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

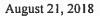
 BTEX
 50 mg/kg

 TPH
 2,500 mg/kg

 Chlorides
 10,000 mg/kg

### V. Soils

The area consists of soils that are loam based topsoil that lay atop clay layers with a beginning depth of approximately six (6) feet bgs that restrict further movement of contaminants into the subsurface.





### VI. Scope of Work

Based on enclosed analytical results, a decrease in chlorides, and a decrease in BTEX and TPH, EOG Y Resources, Inc. proposes to excavate the S1, S2, S3, and S4 areas to four (4) feet, and the S5 area to two (2) feet, hauling all excavated soil to a NMOCD approved facility for disposal. The S1, S2, S3, and S4 areas will have a 20ml synthetic liner installed then the lined areas will be backfilled with caliche to grade. The S5 area will not be lined since all contaminant will be removed with the excavation, but will be backfilled with caliche to grade. EOG Y Resources, Inc. has identified the horizontal extents of contamination and will excavate to these points. There will be no revegetation activities due to this site remaining an active battery. The TPH & BTEX for the remaining soil are within the RRAL's for BTEX (50 mg/kg) and TPH (2500 mg/kg), no further analytical testing of TPH and/or BTEX will be conducted. When remediation work is completed a C-141 Final Report will be submitted to the NMOCD requesting closure of the site.



## **Table 1**Soil Analytical Data

Kleeman PB Battery Remediation Work Plan 2RP-4422



August 21, 2018

Sample ID	Depth	Date	Benzene	Toluene	Soil Analytica	Xylenes	BTEX	TPH	TPH	TPH	Total	Chloride
Sample ID	(ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Aylenes	BIEX	(GRO)	(DRO)	EXT	TPH	Chioride
S1-1'	1'	12/4/17	<0.500	1.16	2.85	19.6	23.6	626	8510	1340	10476	128
S1-2'	2'	12/4/17	<0.050	0.082	<0.050	0.253	0.335	26.4	386	315	727.4	304
S1-3'	3'	12/4/17	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	13.0	<10.0	13.0	1330
S1-4'	4'	12/4/17	<0.050	<0.050	<0.050	< 0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2200
S1-5'	5'	3/6/18	-		-0.000	-	-0,000	- 10.0	-10.5	- 10,0	110.0	<16,0
S1-6'	6'	3/6/18	-			-		-	-	-		16
S1-7'	7'	3/6/18	-			-			-	-		<16.0
S1-8'	8'	3/6/18					-	-	-	-	-	
S1-0	9,		-				-	-	-	-	-	96
S1-9'		3/6/18	-	-	-	-	-		-	-	•	384
S1-10'	10'	3/6/18	-	-	-	-			-	-	•	320
S1-11'	11'	3/6/18	-	-	-	-	-		-	•		128
S2-1'	1'	12/4/17	1.52	90.6	115	189	396	4530	27500	3520	35550	1300
\$2-2'	2'	12/4/17	<1.00	18.2	23.3	106	148	1330	9940	1400	12670	1460
\$2-3'	3'	12/4/17	2.26	78.5	71.0	177	329	2280	12200	1540	16020	7200
S2-4'	4'	12/4/17	11.3	150	131	229	521	2010	7790	1110	10910	6000
S2-5'	5'	3/6/18	<0.050	<0.050	<0.050	< 0.150	<0.300	<10.0	<10.0	<10.0	0	3920
S2-6'	6'	3/6/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	4320
S2-7'	7'	3/6/18	<0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	0	2480
S2-8'	8'	3/6/18		-		-	112	-	-	-		2160
S2-9'	9'	3/6/18	-	-	-	-	-	-	-	-	-	1250
S2-10'	10'	3/6/18	-				-	-	-	-	-	1360
S2-13'	13'	4/3/18	-				-	-	-	-		1880
S2-14'	14'	4/3/18						-		-		1500
S2-15'	15'	4/3/18	-	-				-				2400
S2-16'	16'	4/3/18	-	-	-		-			-		1840
\$2-10	17'	4/3/18		-	-		-					3160
S2-17	18'	4/3/18						-	-	-	-	
			-	-	-		-	-	-	-	-	656
S2-19'	19'	4/3/18	-	-	-	-	-	-		-	-	2480
\$2-20'	20'	4/3/18	-	-	-	-	-	-	-		-	288
S3-1'	1'	12/4/17	<0.500	6.77	17.4	43.3	67.5	730	7000	955	8685	1440
S3-2'	2'	12/4/17	0.050	1.79	5.13	12.7	19.6	178	1430	122	1730	8530
S3-3'	3'	12/4/17	<0.050	0.075	0.208	0.443	0.727	16.1	396	61.3	473.4	9460
S3-4'	4'	12/4/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	6800
S3-5'	5'	3/6/18	-	-	-	-	-	-	-	-		8260
S3-6'	6'	3/6/18	-	-	-	-	-	-	-	-	•	4880
S3-7'	7'	3/6/18	-	-	-	-		-	-	-		14000
S3-8'	8'	3/6/18	-	-	-	-	I- I	-	-	-		4640
S3-9'	9'	3/6/18		-		-	-	-	-	-	-	1880
S3-14'	14'	4/3/18	-				-			-	-	4160
S3-16'	16'	4/3/18		-		-	-	-	-	-	-	688
S3-17'	17'	4/3/18		-				-		-		336
S3-18'	18'	4/3/18	-	_								304
\$3-19'	19'	4/3/18	-	-	-	-			<del>-</del>			208
S4-1'	1'	12/4/17	<0.050	0.342	3.49	11.2	15.0	254	3800	496	4550	4260
S4-2'	2'	12/4/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<del></del>	
		1	4		1	-					0	9460
\$4-3'	3'	12/4/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	4800
\$4-4'	4'	12/4/17	<0.050	<0.050	<0.050	0.185	<0.300	<10.0	28.6	14.9	43.5	8930
S4-5 <sup>1</sup>	5'	3/6/18	-	-	•	•	-	-	-	-	-	16
S4-6'	6'	3/6/18	-	-	-	-	-	•	-	-	-	32
S4-7	7'	3/6/18	-	-	-	-	-	•	-	-	-	32
S5-1'	1'	12/4/17	<0.500	1.90	8.82	33.5	44.2	1030	12500	1830	15360	320
\$5-2'	2'	12/4/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	16
S5-3'	3'	12/4/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	16
S5-4'	4'	12/4/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	32
H1	1'	3/8/18	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	16
H2	1'	3/8/18	<0.050	<0.050	<0.050	<0.150	< 0.300	115	32.2	<10.0	147.2	1170
H3	1'	3/8/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	159	<10.0	159	880
H4	1'	3/8/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	16
H5	1'	3/8/18	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	<50.0	<50.0	0	
												112
H6	1'	3/8/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	64
H7	1'	3/8/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	104	<10.0	104	48
H8	11'	3/8/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	0	192
H2+1'	1'	6/5/18	-		-	-	-	-	-	-	•	448
H3+1'	1'	6/5/18										48

energy opportunity growth



# Figure 1 Site Map with Vertical Sample Points

Kleeman PB Battery Remediation Work Plan 2RP-4422



August 21, 2018





# Figure 2 Site Map with Horizontal Sample Points

Kleeman PB Battery Remediation Work Plan 2RP-4422



August 21, 2018





### Appendix A NMOSE Well Log



### New Mexico Office of the State Engineer Wells with Well Log Information

(A CLIWATON In the POST purity indicates the POST has been replaced & an longer serves a water right	(R-POD here sep Overple Over fi close()	stoood, t	(dorn	lors and (=) {quarters					(NADS	D VIN is meters)				(in is	wo.	
		POB			444								Log File	Donth	Depth	Linemor
POD Nomber RA 64022	Code	Sabberla	CH	Artesian	64 16 4 2 L				540143	3419281*	Distance Stort Date	Finish Date	Date 67/23/1960	90'vit 336	Water Driller CAMPBELL	Number 289
BA 87242 -EXPL			ED.	Shellow	3 4	24	125	268	340843	3619682*	447 99(30/196)	10/30/1913	11/09/1911	183	SI KUCHES DIVILLING COMPANY	749
RA 87241 EXP			ED	Shalletr	1.4	26	LES	345	540163	3619642*	667 89020/1963	10/20/1943	11/06/1913	165	35	749
BA 07241 # XPL			ED	Shallo-	1.4	26	123	26E	340343	3619482*	667 43/01/1904	03/23/1984	67/27/1964	110	50 BRUGHES DELLENG COMPANY	749
BA 47741 EXP			ED	Shallow	3.4	34	183	36E	360343	3619682*	447 03/01/1984	03/25/1994	07/23/1984	118	36	749
RA 87143 EVPL			ED	Shallow	3.4	26	185	24E	362943	3419682*	467 DTA1/1984	07/25/1984	87/27/1984	110	io	749

UTMNADES Radius Search din meterale

Ending (X): 560232 Northing (V): 3619199.76

\*UTAI location was derived from P1.53 - see Help

The date is founded by the POIGES/SC and is accepted by the recipient with the experientar propose of the data.

10/23/17 11:03 AM

WELLS WITH WELL LOG INFORMATION



### Appendix B USGS Groundwater Information





National Water Information System: Web Interface

USG5 Water Resources

T United States ₹ GO

### Click to hideNews Bulletins

- Please see news on new formats
   Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324249104220601

Minimum number of levels = 1

Date range = 07/01/1993 . 10/23/2017

Save flie of selected sites to local disk for future upload

### USGS 324249104220601 185.26E.27.433333

Eddy County, New Mexico
Latitude 32°42'49", Longitude 104\*22'06" NAD27
Land-surface elevation 3,351 feet above NAVD88
The depth of the well is 744 feet below land surface.
This well is completed in the Grayburg Formation (313GRBG) local aquifer.

Debt seconated data Seech of data			Qutput formats		
Deb-separated data  Green of data	Table of data		v		
Sreph of data	Tab-separated data				
Reselect period	Reselect period	W .			

Date	Time	7 Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	7 Water- level accuracy	7 Status	? Hethod of measurement	7 Measuring agency	Source of measurement	7 Water- level approval status
1993-07-01		0	104,67				2		s		
1993-08-02			in a				2		S	U	Ä
1993-09-01		0	110.27				2		s	u	A
1994-02-08			44,65				2		S	u	A
1999-01-07			51.70				2		5	s	A
2003-01-23			57,61				2		s usc	5 5	
2004-01-30			58.10				2		s usg	5 A	A
2005-01-26	10:49 NST	m	50.72				2		s NMOO		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Hinute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Hethod of measurement	S	Steel-tape measurement,
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	A	Reported by another government agency (do not use "A" If reported by owner, use "O").
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	5	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown,
Water-level approval status	A	Approved for publication Processing and review completed,



### **Appendix C**Soil Sample Laboratory Data



December 13, 2017

CHASE SETTLE EOG Y RESOURCES, INC 105 SOUTH 4TH STREET ARTESIA, NM 88210

**RE: KLEEMAN PB BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 12/06/17 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

KLEEMAN PB BATTERY

Project Number:

oject Number.

Project Location:

4422 EDDY CO, NM Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S1 - 1' (H703375-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/11/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	1.16	0.500	12/11/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	2,85	0.500	12/11/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	19.6	1.50	12/11/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	23.6	3.00	12/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	111 9	% 72-148				ballana and			
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/11/2017	МD	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	626	50.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	8510	50.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	1340	50.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	178	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	138	% 34.7-15	7						

### Cardinal Laboratories

\*≃Accredited Analyte

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

Celley D. Kenne

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 24



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

KLEEMAN PB BATTERY

Project Number: 4422

Project Location:

EDDY CO, NM

Samp

Sampling Type:

12/04/2017

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Sampling Date:

Jodi Henson

Sample ID: S1 - 2' (H703375-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	0.082	0.050	12/09/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	0.253	0.150	12/09/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	0.335	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 72-148	10203114						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	26.4	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	386	10,0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	315	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	90.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.1	% 34.7-15	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTTZ: Liability and Damages. Cardinally Bability and client's exclusive remarky for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysiss. All claims, including those for negligence and any other claims white the incidental and the liability and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liabile for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliated or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. The report shall not be reproduced except in full with vertice approved of Cardinal Liboratories.

Celeg D. Kama



### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S1 - 3' (H703375-03)

BTEX 8021B	_ mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	<0.050	0.050	12/09/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	<0.150	0.150	12/09/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	<0.300	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	95.8	% 72-148			-				
hloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	13.0	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	97.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.0	% 34.7-15	7						

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Celley D. Keens

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 24



### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

**KLEEMAN PB BATTERY** 

Project Number: 4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: S1 - 4' (H703375-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	<0.050	0.050	12/09/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	<0.150	0.150	12/09/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	<0.300	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.9	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	<10.0	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO > C28-C36	<10.0	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	99.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	97.8	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

12/06/2017

EDDY CO, NM

Reported:

12/13/2017

Project Name:

KLEEMAN PB BATTERY

Project Number:

Project Location:

4422

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2 - 1' (H703375-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.52	1.00	12/11/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	90.6	1.00	12/11/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	115	1,00	12/11/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	189	3.00	12/11/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	396	6.00	12/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4530	50.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	27500	50.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	3520	50.0	12/12/2017	ND					
Surrogate: I-Chlorooctane	514	% 28.3-16	4		100 100				
Surrogate: 1-Chlorooctadecane	211	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name: Project Number: KLEEMAN PB BATTERY

Project Location:

4422

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2 - 2' (H703375-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	12/11/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	18.2	1,00	12/11/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	23.3	1.00	12/11/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	106	3.00	12/11/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	148	6.00	12/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 72-148							
loride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1330	50.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	9940	50.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	1400	50.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	226	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	139	% 34.7-15	7						

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Celleg D. Keene



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EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

12/06/2017

Reported:

12/13/2017

Project Name: Project Number: **KLEEMAN PB BATTERY** 

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2 - 3' (H703375-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.26	1.00	12/11/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	78.5	1.00	12/11/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	71.0	1.00	12/11/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	177	3.00	12/11/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	329	6.00	12/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102	% 72-148							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Апаlуzе	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2280	50.0	12/12/2017	МD	195	97.6	200	8.87	
DRO >C10-C28	12200	50.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	1540	50.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	298	% 28.3-16-	r						
Surrogate: 1-Chlorooctadecane	163	% 34.7-157	,						

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Celen D. Ken

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 24



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2 - 4' (H703375-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11,3	2,00	12/11/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	150	2.00	12/11/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	131	2.00	12/11/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	229	6.00	12/11/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	521	12.0	12/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 72-148							
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2010	50.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	7790	50.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	1110	50.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	223	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	126	% 34.7-15	7						

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Cellag D. Kum



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

EDDY CO, NM

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S3 - 1' (H703375-09)

BTEX 80218	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/11/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	6.77	0.500	12/11/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	17.4	0.500	12/11/2017	ND	1.60	80.1	2,00	0.651	
Total Xylenes*	43.3	1.50	12/11/2017	ИD	4.95	82.6	6.00	1.48	
Total BTEX	67.5	3.00	12/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	108	% 72-148							
Chloride, SM4500CI-B	mg,	/kg	Апајуге	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	730	50.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	7000	50.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	955	50.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	192	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	170	% 34.7-15	7						

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EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

4422

Project Location:

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

EDDY CO, NM

### Sample ID: \$3 - 2' (H703375-10)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	1.79	0.050	12/11/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	5.13	0.050	12/11/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	12,7	0.150	12/11/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	19.6	0.300	12/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	126	% 72-148							
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	lkg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	178	50.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	1430	50.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	122	50.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	126	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	122	% 34.7-15	7						

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EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

EDDY CO, NM

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

4422

Project Location:

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3 - 3' (H703375-11)

BTEX 80218	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2017	ND	1.73	86.5	2.00	0.626	
Toluene*	0.075	0.050	12/11/2017	ND	1.66	83.1	2.00	1.31	
Ethylbenzene*	0.208	0.050	12/11/2017	ND	1.60	80.1	2.00	0.651	
Total Xylenes*	0.443	0.150	12/11/2017	ND	4.95	82.6	6.00	1.48	
Total BTEX	0.727	0.300	12/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 72-148							
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9460	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16.1	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	396	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	61.3	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	100	% 28 3-16	4						
Surrogate: 1-Chlorooctadecane	110	% 34.7-15	7						

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Celley D. Kes



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

### Sample ID: S3 - 4' (H703375-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.75	87.3	2.00	6.85	
Toluene*	<0.050	0.050	12/09/2017	ND	1.78	88.8	2.00	6.96	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.84	92.0	2.00	6.76	
Total Xylenes*	<0.150	0.150	12/09/2017	ND	5.46	91.1	6.00	6.68	
Total BTEX	<0.300	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	<10.0	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	98.1	% 28.3-16	4						
Surrogate: I-Chlorooctadecane	94.4	% 34.7-15	7						

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Colleg D. Kame



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

**KLEEMAN PB BATTERY** 

mg/kg

Project Number:

4422

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Location: EDDY CO, NM

Sample :	ID: S	4 -	1'	(H7	0337	<b>'5</b> -	13)	
RTEV 9031	i itz							

Result :0.050 0.342 3.49 11.2	0.050 0.050 0.050 0.050 0.150	Analyzed 12/09/2017 12/09/2017 12/09/2017 12/09/2017	Method Blank ND ND ND	BS 1.75 1.78 1.84	% Recovery 87.3 88.8	True Value QC 2.00 2.00	RPD 6.85 6.96	Qualifier
).342 3,49 11,2	0.050 0.050 0.150	12/09/2017 12/09/2017	ND	1.78	88.8			
3.49 11,2	0.050 0.150	12/09/2017				2.00	6.96	
11,2	0.150		ND	1.84			0.50	
		12/09/2017		1,07	92.0	2.00	6.76	
15.0	0.300		ND	5.46	91.1	6.00	6.68	
	0.500	12/09/2017	ND					
103 %	6 72-148							
mg/l	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4260	16.0	12/11/2017	ND	432	108	400	0.00	QM-07
mg/l	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
254	50.0	12/12/2017	ND	195	97.6	200	8.87	
3800	50.0	12/12/2017	ND	197	98.3	200	14.8	
496	50.0	12/12/2017	ND					
	6 28.3-16	4						
149 %								
4: Re 2	esult 260 mg/l esult 254 800	260 16.0 mg/kg  esult Reporting Limit 554 50.0  800 50.0	260 16.0 12/11/2017  mg/kg Analyzed  esult Reporting Limit Analyzed  esult Reporting Limit Analyzed  254 50.0 12/12/2017  800 50.0 12/12/2017	260 16.0 12/11/2017 ND  mg/kg Analyzed By: MS  esult Reporting Limit Analyzed By: MS  esult Reporting Limit Analyzed Method Blank 254 50.0 12/12/2017 ND  800 50.0 12/12/2017 ND  196 50.0 12/12/2017 ND	260 16.0 12/11/2017 ND 432  mg/kg Analyzed By: MS  esult Reporting Limit Analyzed By: MS  esult Reporting Limit Analyzed Method Blank BS  254 50.0 12/12/2017 ND 195  800 50.0 12/12/2017 ND 197	260 16.0 12/11/2017 ND 432 108  mg/kg Analyzed By: MS  esult Reporting Limit Analyzed By: MS  esult Reporting Limit Analyzed Method Blank BS % Recovery 254 50.0 12/12/2017 ND 195 97.6  800 50.0 12/12/2017 ND 197 98.3	esult Reporting Limit Analyzed Method Blank BS % Recovery True Value QC  260 16.0 12/11/2017 ND 432 108 400  mg/kg Analyzed By: MS  esult Reporting Limit Analyzed Method Blank BS % Recovery True Value QC  254 50.0 12/12/2017 ND 195 97.6 200  800 50.0 12/12/2017 ND 197 98.3 200  196 50.0 12/12/2017 ND	Pesult Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16.0 12/11/2017 ND 432 108 400 0.00 mg/kg Analyzed By: MS  Pesult Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 154 50.0 12/12/2017 ND 195 97.6 200 8.87 800 50.0 12/12/2017 ND 197 98.3 200 14.8 196 50.0 12/12/2017 ND

Analyzed By: MS

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Colony D. Kum

Celey D. Keene, Lab Director/Quality Manager

Page 14 of 24

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S4 - 2' (H703375-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.75	87.3	2.00	6.85	
Toluene*	<0.050	0.050	12/09/2017	ND	1.78	88.8	2.00	6.96	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.84	92.0	2.00	6.76	
Total Xylenes*	<0.150	0.150	12/09/2017	ND	5.46	91.1	6.00	6.68	
Total BTEX	<0,300	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9460	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	<10.0	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	92.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.8	% 34.7-15	7						

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Celley D. Keene

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S4 - 3' (H703375-15)

BTEX 8021B	mg,	/kg	Analyze	d By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.75	87.3	2.00	6.85	
Toluene*	<0.050	0.050	12/09/2017	ND	1.78	88.8	2.00	6.96	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.84	92.0	2.00	6.76	
Total Xylenes*	<0.150	0.150	12/09/2017	ND	5.46	91.1	6.00	6.68	
Total BTEX	<0.300	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 72-148							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	<10.0	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO > C28-C36	<10.0	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	80.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.0	% 34.7-15	7						

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alex & Kenne



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: S4 - 4' (H703375-16)

3TEX 8021B	mg,	/kg	Analyze	d By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.75	87.3	2.00	6.85	
Foluene*	<0.050	0.050	12/09/2017	ND	1.78	88.8	2.00	6.96	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.84	92.0	2.00	6.76	
Total Xylenes*	0.185	0.150	12/09/2017	ND	5.46	91.1	6.00	6.68	
Total BTEX	<0.300	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (Pi	T 109	% 72-148	3						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	12/11/2017	ND	432	108	400	0.00	
ГРН 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	28.6	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	14.9	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	98.6	% 28.3-10	54						-1 -20 - 1100
Surrogate: 1-Chlorooctadecane	99.1	% 34.7-15	57						
Surrogate: 1-Chlorooctane	98.6	% 28.3-16	54	ОИ					

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Celeg D. Kame



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Reported: 12/13/2017

Project Name: KLEEMAN PB BATTERY

12/06/2017

Project Number: 4422
Project Location: EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: \$5 - 1' (H703375-17)

Received:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.500	0.500	12/11/2017	ND	1.75	87.3	2.00	6.85	
Toluene*	1.90	0.500	12/11/2017	ND	1.78	88.8	2,00	6.96	
Ethylbenzene*	8.82	0.500	12/11/2017	ND	1,84	92.0	2.00	6.76	
Total Xylenes*	33.5	1.50	12/11/2017	ND	5.46	91.1	6.00	6.68	
Total BTEX	44.2	3.00	12/11/2017	ND					
Surrogate: 4-Bromosluorobenzene (PIE	112	% 72-148							
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1030	50.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	12500	50.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	1830	50.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	235	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	166	% 34.7-15	7						

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Celeg D. Kenne



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: S5 - 2' (H703375-18)

Analyte	mg/kg		Analyzed By: M5						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.75	87.3	2.00	6.85	
Toluene*	<0.050	0.050	12/09/2017	ND	1.78	88.8	2.00	6.96	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.84	92.0	2.00	6.76	
Total Xylenes*	<0.150	0.150	12/09/2017	ND	5.46	91.1	6.00	6.68	
Total BTEX	<0.300	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 72-148			727				
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	<10.0	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	92.6	% 28.3-16-	1						
Surrogate: 1-Chlorooctadecane	91.9	% 34.7-15	7						

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Celly D. Kenne



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S5 - 3' (H703375-19)

BTEX 8021B  Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.75	87.3	2.00	6.85	
Toluene*	<0.050	0.050	12/09/2017	ND	1.78	88.8	2.00	6.96	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.84	92.0	2.00	6.76	
Total Xylenes*	<0.150	0.150	12/09/2017	ND	5.46	91.1	6.00	6.68	
Total BTEX	<0.300	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	106	% 72-148	3						F FIRE LA
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: M5						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	<10.0	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO > C28-C36	<10.0	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	95.1 % 28.3-16		i4 - 3.						
Surrogate: 1-Chlorooctadecane	93.5	% 34.7-15	7						

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\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 20 of 24



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

12/06/2017

Reported:

12/13/2017

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

12/04/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S5 - 4' (H703375-20)

BTEX 8021B	mg,	kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2017	ND	1.75	87.3	2.00	6.85	
Toluene*	<0.050	0.050	12/09/2017	ND	1.78	88.8	2.00	6.96	
Ethylbenzene*	<0.050	0.050	12/09/2017	ND	1.84	92.0	2.00	6.76	
Total Xylenes*	<0.150	0.150	12/09/2017	ND	5.46	91.1	6.00	6.68	
Total BTEX	<0,300	0.300	12/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	105	% 72-148						-500000	
Chloride, SM4500Ci-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2017	ND	195	97.6	200	8.87	
DRO >C10-C28	<10.0	10.0	12/12/2017	ND	197	98.3	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	12/12/2017	ND					
Surrogate: 1-Chlorooctane	91.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.5	% 34.7-15	7						

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Celley Ditterne

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature,
×	Chloride by SM4500CHB does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Kame

## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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March 15, 2018

CHASE SETTLE EOG Y RESOURCES, INC 105 SOUTH 4TH STREET ARTESIA, NM 88210

RE: KLEEMAN PB BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/07/18 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/07/2018

Reported:

03/15/2018

Project Name:

**KLEEMAN PB BATTERY** 

EDDY CO, NM

Project Number:

4422

Project Location:

Analyte

Analyte

Sampling Date:

03/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S1 - 5' (H800680-01)

CHION	ae,	ЭM	430	MLI	-E
					_

mg/kg

Analyzed By: AC

Analyzed

03/15/2018

Analyzed

Method Blank

ND

% Recovery

True Value OC

Qualifier

Chloride

<16.0

Result

Result

16.0

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

464

BS

116

400

RPD 3.39

Sample ID: S1 - 6' (H800680-02)

mg/kg

Analyzed By: AC

% Recovery

True Value QC

RPD Qualifier

Chloride

Chloride

Chloride

16.0

16.0 03/15/2018 Method Blank ND

BS 464

464

116

116

400

3.39

Sample ID: S1 - 7' (H800680-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result <16.0 Analyzed

03/15/2018

Analyzed

03/15/2018

Method Blank ND

BS % Recovery

True Value OC

RPD 3.39

Qualifier

Qualifier

Sample ID: S1 - 8' (H800680-04)

Analyte

Chloride, SM4500CI-B

mg/kg

Result

96.0

Analyzed By: AC

Method Blank

ND

BS

464

% Recovery

116

True Value OC 400

400

RPD

3.39

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Celleg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 13



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/07/2018

Reported:

03/15/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

Analyte

Analyte

Project Location:

4422

EDDY CO, NM

Sampling Date:

03/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S1 - 9' (H800680-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Analyzed

Method Blank

BS % Recovery

True Value QC

Qualifier

RPD

3.39

3.39

Chloride

Result 384

16.0 03/15/2018

Reporting Limit

ND.

116

400

Quan

Sample ID: S1 - 10' (H800680-06)

Chloride, SM4500CI-B

mg/kg

Result

Analyzed By: AC

AC .

BS % Recovery

True Value QC

RPD Qualifier

Chloride

**320** 16.0 03/15/2018

Reporting Limit

Method Blank ND

464

464

116

400

Qualii

Sample ID: S1 - 11' (H800680-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/15/2018	ND	480	120	400	0.00	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 13



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/07/2018

Reported:

03/15/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

Project Location:

4422 EDDY CO, NM Sampling Date:

03/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: S2 - 5' (H800680-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2018	ND	2.11	105	2.00	1.42	
Toluene*	<0.050	0.050	03/08/2018	ND	2.06	103	2.00	0.754	
Ethylbenzene*	<0.050	0.050	03/08/2018	ND	1.98	99.1	2.00	0.734	
Total Xylenes*	<0.150	0.150	03/08/2018	ND	5.96	99.3	6.00	0.529	
Total BTEX	<0.300	0.300	03/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	36 72-148	3						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	03/11/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2018	ND	207	103	200	1.63	
DRO >C10-C28*	<10.0	10.0	03/08/2018	ND	193	96.7	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	03/08/2018	ND					
Surrogate: I-Chlorooctane	95.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.6	% 37.6-14	17						

Cardinal Laboratories

\*=Accredited Analyte

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Colleg D. Kanne

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 13



### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/07/2018

Reported:

03/15/2018

EDDY CO, NM

Project Name:

KLEEMAN PB BATTERY

Project Number:

Project Location:

4422

Sampling Date:

03/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S2 - 6' (H800680-09)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2018	ND	2.11	105	2.00	1.42	
Toluene*	<0.050	0.050	03/08/2018	ND	2.06	103	2.00	0.754	
Ethylbenzene*	<0.050	0.050	03/08/2018	ND	1.98	99.1	2.00	0.734	
Total Xylenes*	<0.150	0.150	03/08/2018	ND	5.96	99.3	6.00	0.529	
Total BTEX	<0.300	0.300	03/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	103	% 72-148							
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	03/11/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2018	ND	207	103	200	1.63	
DRO >C10-C28*	<10.0	10.0	03/08/2018	ND	193	96.7	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	03/08/2018	ND					
Surrogate: 1-Chlorooctane	94.5	% 41-142							
Surrogate: 1-Chlorooctadecane	79.2	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 13



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To: (575) 748-4131

Received:

03/07/2018

Reported:

03/15/2018

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

03/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S2 - 7' (H800680-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2018	ND	2.11	105	2.00	1.42	
Toluene*	<0.050	0.050	03/08/2018	ND	2.06	103	2.00	0.754	
Ethylbenzene*	<0.050	0.050	03/08/2018	ND	1.98	99.1	2.00	0.734	
Total Xylenes*	<0.150	0.150	03/08/2018	ND	5.96	99.3	6.00	0.529	
Total BTEX	<0.300	0.300	03/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 72-148	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	03/11/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10*	<10.0	10.0	03/08/2018	ND	207	103	200	1.63	
DRO >C10-C28*	<10.0	10.0	03/08/2018	ND	193	96.7	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	03/08/2018	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
Surrogate 1-Chlorooctadecane	84.8	% 37.6-14	7						

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### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

03/07/2018

Reported:

03/15/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

2160

Sampling Date:

03/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Sample ID: S2 - 8' (H800680-11)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

16.0

Analyzed 03/15/2018 Method Blank

ND

% Recovery

120

True Value QC 400

Qualifier

0.00

RPD

Sample ID: S2 - 9' (H800680-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Result 1250 16.0

Analyzed 03/15/2018 Method Blank ND

BS 480

BS

480

% Recovery 120

True Value QC 400

RPD 0.00

Qualifier

Sample ID: S2 - 10' (H800680-13)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Result

1360

Result

8260

Result

4880

Analyzed By: AC

Reporting Limit 16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 03/15/2018 Method Blank ND

BS 480

RS

480

BS

480

% Recovery 120

120

120

True Value QC 400

RPD

0.00

Sample ID: S3 - 5' (H800680-14)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

ND

% Recovery

True Value QC

400

RPD Qualifier

Qualifier

Sample ID: S3 - 6' (H800680-15)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Chloride

Analyzed

03/15/2018

03/15/2018

Method Blank ND

% Recovery

True Value QC

400

RPD

0.00

Qualifier 0.00

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by Cardinal within thirty (30) days after completion of the applicable service,

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 13



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

03/07/2018

Reported:

03/15/2018

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

4422

Project Location: EDDY CO, NM

Sampling Date:

03/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact
Tamara Oldaker

Sample ID: S3 - 7' (H800680-16)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	03/15/2018	ND	480	120	400	0.00	

### Sample ID: S3 - 8' (H800680-17)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	03/15/2018	ND	480	120	400	0.00	

### Sample ID: S3 - 9' (H800680-18)

Chloride, 5M4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	03/15/2018	ND	480	120	400	0.00	

### Sample ID: S4 - 5' (H800680-19)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/15/2018	ND	480	120	400	0.00	

### Sample ID: S4 - 6' (H800680-20)

Chloride, SM4500CI-B	mg	/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2018	ND	480	120	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/07/2018

Reported:

03/15/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

03/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: S4 - 7' (H800680-21)

Chioride, SM4500CI-B	mg/	kg	Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2018	ND	480	120	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix Interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

Insufficient time to reach temperature.

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

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

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Clay D. Keene

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					ALL			9.								FIELD CODE	000 000 U	2	no:	575-748-417	Artesia, NM 88210	ss: 104 South 4t	EOG Resources, Inc.	Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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April 06, 2018

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: KLEEMAN PB BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/04/18 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received: Reported: 04/04/2018

04/06/2018

KLEEMAN PB BATTERY

Project Number: Project Location:

Analyte

Project Name:

4422

Result

1880

EDDY CO, NM

Sampling Date:

04/03/2018

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By: Tamara Oldaker

Sample ID: S2 - 13' (H800932-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyzed

04/06/2018

Analyzed

Analyzed

04/06/2018

Analyzed

04/06/2018

Method Blank

% Recovery 104

True Value QC

RPD

Qualifier

0.00

Sample ID: \$2 - 14' (H800932-02)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

mg/kg

Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC

400

RPD Qualifier

1500

Result

Result

2400

Result

1840

16.0 04/06/2018 Method Blank ND

ND

BS 416

BS

416

% Recovery 104

True Value QC 400

0.00

0.00

0.00

Sample ID: S2 - 15' (H800932-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

BS

416

BS

416

% Recovery

104

% Recovery

104

True Value QC

400

RPD

Qualifier

Sample ID: S2 - 16' (H800932-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

ND

True Value QC

400

RPD

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Darr thin thirty (30) days after com

Celley D. Kuma

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



### Analytical Results For:

EQG Y RESOURCES, INC. CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Analyzed By: AC

Received:

04/04/2018

Sampling Date:

04/03/2018

Reported:

04/06/2018

Sampling Type:

Soil

Project Name:

KLEEMAN PB BATTERY

Sampling Condition:

\*\* (See Notes)

Project Number:

4422

Sample Received By:

Tamara Oldaker

Project Location:

EDDY CO, NM

mg/kg

Sample ID: S2 - 17' (H800932-05)

Chloride, 5	M4500CI-B
-------------	-----------

	11.5								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	04/06/2018	ND	416	104	400	0.00	
Sample ID; S2 - 18' (H80		40		d n 10					
Chloride, SM4500CI-B	mg	/kg	Anaiyze	d By: AC				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/06/2018	ND	416	104	400	0.00	
Sample ID: S2 - 19' (H80	0932-07)								
Chloride, SM4500Ci-B	mg	/kg	Analyze	d By: AC					<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	04/06/2018	ND	416	104	400	0.00	
Sample ID: S2 - 20' (H80	0932-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/06/2018	ND	416	104	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

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Celley D. Kee

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Kema

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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Date	Date	8/14/18	7														(	5	1171	Artesia, NM 88210	1 4th Street	EOG Resources, Inc.	i i i
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April 19, 2018

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: KLEEMAN PB BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/12/18 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: Reported: 04/12/2018

04/19/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

04/03/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S3 - 14' (H801018-01)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

4160

Result

688

Analyzed By: AC

Analyte

Analyte

Analyte

Analyte

Result Reporting Limit

16.0

Analyzed 04/18/2018

Analyzed

04/18/2018

Analyzed

Analyzed

04/18/2018

Method Blank ND

Method Blank

ND

BS 432 % Recovery True Value QC RPD

3.77

RPD

Qualifier

Sample ID: S3 - 16' (H801018-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS

432

% Recovery

108

108

400

Sample ID: S3 - 17' (H801018-03)

Chloride, SM4500CI-B

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC

400

True Value QC

3.77

RPD Qualifier

Qualifier

Chloride

Chloride

Result 336

mg/kg

16.0 04/18/2018 Method Blank ND

BS 432 % Recovery 108

True Value OC 400

3.77

Sample ID: S3 - 18' (H801018-04)

Chloride, SM4500CI-B

mg/kg

Result

304

Analyzed By: AC

Method Blank ND

B\$ 432 % Recovery 108

True Value QC 400

RPD Qualifier

3.77

**Cardinal Laboratories** 

\*=Accredited Analyte

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College D. Ken

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

04/12/2018

Reported:

04/19/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

Project Location:

4422

EDDY CO, NM

Sampling Date:

04/03/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S3 - 19' (H801018-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/18/2018	ND	432	108	400	3.77	

**Cardinal Laboratories** 

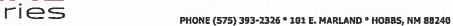
\*=Accredited Analyte

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

Celley D. Kenne

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5





ND

### **Notes and Definitions**

RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
•••	Insufficient time to reach temperature.
ž	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

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Clay D. Kume

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 5

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 383-2476

Relinquished by:	Relinquished by:	Relinquistifed	Special				5	-	n	2		LAB # (lab use only)	ORDER #:	(into one only)	מפון הפו						
shed by:	shed by:	Apply	Special Instructions:				S3-19'	S3-18'	S3-17"	S3-16'	S3-14 <sup>1</sup>	<b>a</b>	果 につつじん		only)	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address	Company Name	
Date	Date	#/12/18										FIELD CODE	8				575-748-4171	Artesia, NM 88210	Company Address: 104 South 4th Street	EOG Resources, Inc.	
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Time I	Time	//: 30		$\vdash$	7			$\vdash$				Ending Depth	1			L					
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OT:		Sten					11:49 AM	11:38 AM	11:33 AM	11:28 AM	11:23 AM	Time Sampled				e-mail:	Fax No:				
		2		_	+		-			-		Field Filtered  Total #. of Containers				llo	1				
		2	1	H	+		×	×	×	×	×	Ice	$\vdash$			Chase Settle@eogresources.com					
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		3 7		Ш				-			-	NP=Non-Potable Specify Other	I₹				Report Format:		70		
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		5				Ш					L	TPH: TX 1005 TX 1006		1	1	1	met	PO	Project Loc: Eddy County	Project #:	
#2	San	Circle Fig.	San			Ш					<u></u>	Calions (Ca, Mg, Na, K)			ı	1	_	PO #:	ŭ	*	
D P	SAS	g g g	be orat				×	×	×	×	×	Anions (CI)		1017		1	×	1205		4422	
7	Sample Hand Delivered by Sampler/Client Rep. ? UPS	Labels on container(s) Custody seals on container Custody seals on cooler(s)	Laboratory Comments: Sample Containers intact? VOCs Free of Headspace?	-		╬	_		⊢		1	SAR / ESP / CEC		<u>:  </u>	익	1	x Standard	205-0750	Ϋ́	120	
Ď.	Sep	2 S S	I HE COM		-	++	+		⊢	<b>├</b> -	-	Metals: As Ag Ba Cd Cr Pb H	150	+	4	3 3	ad	8	Iŝ		
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ece	P P P		nts: ntac		U!		+	╆	⊢	╀	╁	BTEX 8021B/5030 or BTEX 8	260	+		7l					
P.		Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	2 2	H		+	+	+		╁╾	$\vdash$	RCI			1		爿		İ		
20	물	100			+	+	+		-	+	$\vdash$	N.O.R.M.			1		TRRP				
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ô	ZZ	<b>Z) Z</b>	ZZ				n .					RUSH TAT (Pre-Schedule) 24	48, 72	hra			ŒS				
			Account to the		-	1-	×	×	×	×	×	Standard TAT	1					1	1	- 1	



March 19, 2018

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: KLEEMAN PB BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/12/18 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Kune

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/12/2018

Reported:

03/19/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

EDDY CO, NM

Sampling Date:

03/08/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 1 (H800717-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2018	ND	1.87	93.4	2.00	1.63	
Toluene*	< 0.050	0.050	03/13/2018	ND	1.90	95.1	2.00	0.918	
Ethylbenzene*	<0.050	0.050	03/13/2018	ND	1.88	93.9	2.00	1.17	
Total Xylenes*	<0.150	0.150	03/13/2018	ND	5.79	96.5	6.00	1.57	
Total BTEX	<0.300	0.300	03/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	90.8	% 72-148			20182				
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/14/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2018	ND	174	86.9	200	2.08	
DRO >C10-C28*	<10.0	10.0	03/13/2018	ND	155	77.3	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	03/13/2018	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142							
Surrogate: 1-Chlorooctadecane	75.5	% 37.6-14	7						

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\*=Accredited Analyte

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aleg D. Kanne

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/12/2018

Reported:

03/19/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location: EDDY CO, NM

Sampling Date:

03/08/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 2 (H800717-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2018	ND	1.87	93.4	2.00	1.63	
Toluene*	<0.050	0.050	03/13/2018	ND	1.90	95.1	2.00	0.918	
Ethylbenzene*	<0.050	0.050	03/13/2018	ND	1.88	93.9	2.00	1.17	
Total Xylenes*	<0.150	0.150	03/13/2018	ND	5.79	96.5	6.00	1.57	
Total BTEX	<0.300	0.300	03/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	91.3	% 72-148							
Chloride, SM4500Ci-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	03/14/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2018	ND	174	86.9	200	2.08	
DRO >C10-C28*	115	10.0	03/13/2018	ND	155	77.3	200	3.67	
EXT DRO >C28-C36	32.2	10.0	03/13/2018	ND					
Surrogate: 1-Chlorooctane	78.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	70.8	% 37.6-14	7						

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Clay D. Kenne

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 11



### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/12/2018

Reported:

03/19/2018

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

Project Location:

EDDY CO, NM

Sampling Date:

03/08/2018

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: H 3 (H800717-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2018	ND	1.87	93.4	2,00	1,63	
Toluene*	< 0.050	0.050	03/13/2018	ND	1.90	95.1	2.00	0.918	
Ethylbenzene*	<0.050	0.050	03/13/2018	ND	1.88	93.9	2.00	1.17	
Total Xylenes*	<0.150	0.150	03/13/2018	ND	5.79	96.5	6.00	1.57	
Total BTEX	<0.300	0.300	03/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	92.69	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	03/14/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2018	ND	174	86.9	200	2.08	
DRO >C10-C28*	159	10.0	03/13/2018	ND	155	77.3	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	03/13/2018	ND					
Surrogate: 1-Chlorooctane	88.1 9	% 41-142	}						
Surrogate: 1-Chlorooctadecane	81.0 9	% 37.6-14	7						

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Celley D. Kune

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

03/12/2018

Reported:

03/19/2018

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

Received:

4422

Project Location: EDDY CO, NM Sampling Date:

03/08/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: H 4 (H800717-04)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2018	ND	1.87	93.4	2.00	1.63	
Toluene*	<0.050	0.050	03/13/2018	ND	1.90	95.1	2.00	0.918	
Ethylbenzene*	<0.050	0.050	03/13/2018	ND	1.88	93.9	2.00	1.17	
Total Xylenes*	<0.150	0.150	03/13/2018	ND	5.79	96.5	6.00	1.57	
Total BTEX	<0.300	0.300	03/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	92.6	% 72-148							
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/14/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2018	ND	174	86.9	200	2.08	
DRO >C10-C28*	<10.0	10.0	03/13/2018	ND	155	77.3	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	03/13/2018	ND					
Surrogate: 1-Chlorooctane	94.4	% 41-142	?						0.00
Surrogate: 1-Chlorooctadecane	79.3	% 37.6-14	7						

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Celeg D. Kenne

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Fax

03/12/2018

Reported: 03/19/2018

Project Name: KLEEMAN PB BATTERY

Project Number: 4422

Project Location: EDDY CO, NM

Sampling Date:

03/08/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: H 5 (H800717-05)

Received:

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Umit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2018	ND	1.87	93.4	2.00	1.63	
Toluene*	<0.050	0.050	03/13/2018	ND	1.90	95.1	2.00	0.918	
Ethylbenzene*	<0.050	0.050	03/13/2018	ND	1.88	93.9	2.00	1.17	
Total Xylenes*	<0.150	0.150	03/13/2018	ND	5.79	96.5	6.00	1.57	
Total BTEX	<0.300	0.300	03/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	92.0	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/14/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/13/2018	ND	174	86.9	200	2.08	
DRO >C10-C28*	<50.0	50.0	03/13/2018	ND	155	77.3	200	3.67	
EXT DRO >C28-C36	<50.0	50.0	03/13/2018	ND					
Surrogate: 1-Chlorooctane	96.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	80.5	% 37.6-14	7						

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Celey D. Kema

Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To: (575) 748-4131

Received:

03/12/2018

Reported:

03/19/2018

Project Name:

**KLEEMAN PB BATTERY** 

Project Number: Project Location: 4422

EDDY CO, NM

Sampling Date:

03/08/2018

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: H 6 (H800717-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2018	ND	1.87	93.4	2.00	1.63	
Toluene*	<0.050	0.050	03/13/2018	ND	1.90	95.1	2.00	0.918	
Ethylbenzene*	<0.050	0.050	03/13/2018	ND	1.88	93.9	2.00	1.17	
Total Xylenes*	<0.150	0.150	03/13/2018	ND	5.79	96.5	6.00	1.57	
Total BTEX	<0.300	0.300	03/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.0	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/14/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2018	ND	174	86.9	200	2.08	
DRO >C10-C28*	<10.0	10.0	03/13/2018	ND	155	77.3	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	03/13/2018	ND					
Surrogate: 1-Chlorooctane	82.7	% 41-142	!						
Surrogate: 1-Chlorooctadecane	66.4	% 37.6-14	7						

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College D. Ken

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To: (575) 748-4131

Received:

03/12/2018

Reported:

03/19/2018

Project Name:

**KLEEMAN PB BATTERY** 

Project Number:

4422

Project Location: EDDY CO, NM Sampling Date:

03/08/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 7 (H800717-07)

BTEX 80218	mg,	kg	Analyze	d By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2018	ND	1.87	93.4	2.00	1.63	
Toluene*	<0.050	0.050	03/13/2018	ND	1.90	95.1	2.00	0.918	
Ethylbenzene*	<0.050	0.050	03/13/2018	ND	1.88	93.9	2.00	1.17	
Total Xylenes*	<0.150	0.150	03/13/2018	ND	5.79	96.5	6.00	1.57	
Total BTEX	<0,300	0.300	03/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	92.0	% 72-148	}						
Chloride, SM4500CI-B	mg,	lkg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/14/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/13/2018	ND	174	86.9	200	2.08	
DRO >C10-C28*	104	50.0	03/13/2018	ND	155	77.3	200	3.67	
EXT DRO >C28-C36	<50.0	50.0	03/13/2018	ND					
Surrogate: 1-Chlorooctane	91.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.3	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Bability and chere's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitesoever shall be deemed welved unless made in writing and received by Cardinal within thiny [30] days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential damages, including, without firstiman, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reviews or related to the performance of the services hereunder by Cardinal, regardless of whether such

Celleg D. Keens



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

03/12/2018

Reported:

03/19/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

Project Location:

4422

EDDY CO, NM

Sampling Date:

03/08/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 8 (H800717-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2018	ND	1.87	93.4	2.00	1.63	
Toluene*	<0.050	0.050	03/13/2018	ND	1.90	95.1	2.00	0.918	
Ethylbenzene*	<0.050	0.050	03/13/2018	ND	1.88	93.9	2.00	1.17	
Total Xylenes*	<0.150	0.150	03/13/2018	ND	5.79	96.5	6.00	1.57	
Total BTEX	<0.300	0.300	03/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	92.7	% 72-148	•						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/14/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2018	ND	174	86.9	200	2.08	
DRO >C10-C28*	<10.0	10.0	03/13/2018	ND	155	77.3	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	03/13/2018	ND					
Surrogate: 1-Chlorooctane	88.7	% 41-142						- 1272	
Surrogate: 1-Chlorooctadecane	69.8	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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Cellen D. Kanne

Celey D. Keene, Lab Director/Quality Manager

Page 9 of 11

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em	ET ET	Sample Hand Delivered		VOCs Free of Headspace?	aboratory Comments:	832-6	Large.	200	5.X mm.*	1000	10.00	2000	-	1,512.57	Indiana.	Catlons (Ca, Mg, Na, K)			П		_	PO #:	្តន	34	嘉	¥
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June 11, 2018

CHASE SETTLE EOG Y RESOURCES, INC 105 SOUTH 4TH STREET ARTESIA, NM 88210

**RE: KLEEMAN PB BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 06/06/18 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

06/06/2018

Reported:

06/11/2018

Project Name:

KLEEMAN PB BATTERY

Project Number:

4422

Project Location:

Analyte

EDDY CO, NM

Result

448

48.0

Sampling Date:

BS

432

06/05/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 2 +1' (H801541-01)

Chloride, SM4500CI-B

Chloride

mg/kg

Reporting Limit

16.0

Analyzed By: AC

Analyzed

06/07/2018

Method Blank

% Recovery 108

True Value QC 400

**RPD** 

0.00

Qualifier

Qualifier

Sample ID: H 3 +1' (H801541-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Chloride

Reporting Limit Result

Analyzed 16.0 06/07/2018 Method Blank ND

ND

BS. 432 % Recovery 108

True Value QC 400

RPD

0.00

\*=Accredited Analyte Cardinal Laboratories

any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, atfliates or successors arising out of or related to the perform claim is based upon any of the above stated researcs or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley D. Kuma

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celley D. Keman

ARDINA PAGE 4 Of 4

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Relinquished by:	Relinquished by:	Resingujarigs by	Special Instructions:								₩3+1"	/ H2+1*	LA	+	ORDER #: H801541	(lab use only)		Sampler Signature:	lelephone No.		City/State/Zip:	Company Addre	Company Name	Project Manager:
Data	Date	8 /9/9	ALL results in mg/kg. TPH EXTENDED.										HELD CODE		541			ure:	0/0-/40-1/1	70 749	Artesia, NM 88210	Company Address: 104 South 4th Street	EOG Resources, Inc.	Chase Settle
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### Appendix D Form C-141 Initial

### NM OIL CONSERVATION

ARTESIA DISTRICT

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

State of New Mexico
Energy Minerals and Natural Resources

SEP 28 2017

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submir Peoply to appropriate District Office in accordance with 19.15.29 NMAC.

	Relea	se Notificati	<del>-</del>		ction	1							
NAB17272540	<b>አ</b> በ	0	PERATOR			⊠ Initi	al Report	☐ Final Repor					
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EOG Y Resources, Inc.	25	5575	Chase Settle										
Address			Telephone No.										
104 S. 4th Street Artesia NN Facility Name	1 88210		575-748-1471 Facility Type										
Kleeman PD & Platt PA Ba	lterv		Battery										
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Surface Owner Private		Mineral Owne Private											
E11440			30-015-00253										
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Unit Letter Section Tow L 26 18S	nship Renge 1 26B		outh	990		est Line	County Eddy	3.9					
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Type of Release			Volume of	Release			Recovered						
Crude Oil/Produced Water Source of Release			27 B/O, 1	O B/PW Tour of Occurrent		1 B/O, 0		CONTROLL					
Tank		26		7:42 AM		Date and Hour of Discovery 9/12/2017; 7:42 AM							
Was Immediate Notice Given?		No 🔲 Not Require	If YES, To Whom? Mike Bratcher and Crystal Weaver										
By Whom?			Date and Hour										
Robert Asher Was a Watercourse Reached?				: 12, 2017, 1:40 P. plume Impacting (				59					
Was a Materconise Meached	☐ Yes 🔯 1	No	II IES, V	olume impacing	ING WATE	rcourse.							
If a Watercourse was Impacted	, Describe Fully.*	N/A											
Describe Cause of Problem and The cause of the release was de	Remedial Action		of the product	ion tank.									
Describe Area Affected and Cl	eanup Action Taker	լ.•											
The release occurred within	the battery berm	the exact area impa											
NMOCD, Vertical and horizo													
results for TPH & BTEX are us results are above the RRAL's a	work plan will be	which is 10, a rine.	Report, C141 Denth to Gri	wiii be submitted ound Water: >50	-99' (5	8º. Section	n 26. T189	. R26E. ner					
NMOSE & USGS), Wellher	d Protection Area	: No, Distance to St	rface Water B	ody: >1000', SI7	E RAN	KING IS	10.	, xcor, per					
I hereby certify that the information	ation given above is	true and complete to	the best of my	knowledge and u	inderstan	d that puri	ment to NMC						
regulations all operators are rec public health or the environmen													
should their operations have fa													
or the environment. In addition	, NMOCD accepta	nce of a C-141 repor	does not reliev	e the operator of	responsi	bility for c	ompliance w	ith any other					
federal, state, or local laws and	or regulations.			OIL CON	CDD7/	ATTON	DIVIGIO	AY.					
Signature:	$\sim$												
Printed Name: Chase Settle			Approved by	Signed I	By pecialist	1/4 L	Scarrece	<u>k</u>					
Title: Rep Safety & Environme	ental II		Approval Da	MAGL	$\overline{}$	Expiration 1	Date: N/	A					
E-mail Address: chase settle@	cogresources.com		Conditions of Approval:										
Date: September 28, 2017	Pho	one:575-748-4171		See	Otto	ichec	1	RP-4422					
* Attach Additional Sheets If I	NECESBAITY												