

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

March 27, 2018

Ms. Olivia Yu NMOCD District I 1625 N. French Drive Hobbs, NM 88210

Re: Judson AUU State Com #2 1RP-4826 30-025-36886 Section 26, T10S-R34E Lea County, New Mexico

PRELIMINARY RESULTS

Dear Ms. Yu,

EOG Y Resources, Inc. is submitting the enclosed remediation work plan for the above referenced site.

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 before April 10, 2018.

If you have any questions call me at (575) 748-4217

Thank you.

Robert Asher Environmental Supervisor EOG Y Resources, Inc.



V. Soils

The area consists of soils that are loam based topsoil with deeper layers of consisting of a cemented hardpan caliche layer in the subsurface that is impenetrable, which provides a permeability barrier to prohibit percolation of contaminants into the subsurface water system.

VI. Scope of work

During the sampling (GPS coordinates below), of 2/6/2018, backhoe refusal did not allow EOG Y to sample any further than the point of four (4) feet below surface. Based off of that fact, the enclosed analytical results and the site ranking of zero, EOG Y Resources, Inc. will excavate four (4) feet of impacted soils from the release area to the hardpan caliche layer. A six (6) inch layer of clean native or like soil will be placed in the bottom of the excavation to cushion a 20 millimeter synthetic liner, this will protect the liner from puncture or damage. The excavation will then be backfilled with approximately 42-46 inches of clean native or like soil to be slightly above grade to allow for settling. The soils initially excavated that were stockpiled on plastic will be taken to an NMOCD approved facility.

When the remediation work is completed, a Form C-141, Final Report/Closure Report will be submitted requesting closure.

GPS Sample Points

S-1	33.412619°	-103.432827°
S-2	33.412602°	-103.432851°
CP-1	33.412590° 33.412610°	-103.432842° -103.432868°
CP-2	33.412610	-103.432868
CP-3	33.412632°	-103.432841°
CP-4	33.412608°	-103.432809°



Table 1

Soil Analytical Data

Judson AUU State Com #2	Sample Area	Sample Date	Sample Type	Depth	Benzene	BTEX	GRO	DRO	EXT DRO
S-1.0	Release/ Excavation	9/21/2017	Grab/Auger	Surface (18" BSL)	ND	2.900	48	6500	1100
S-1.1	Release/ Excavation	2/7/2018	Grab/Auger	Surface (30" BSL)	<5.0	1600	7080	6110	<50.0
S-1.2**	Release/ Excavation	2/7/2018	Grab/Auger	Surface (42" BSL)	9.110	1330	5870	4800	74.7
S-2.0	Release/ Excavation	2/7/2018	Grab/Auger	Surface (30" BSL)	<0.05	0.506	<10.0	530	56.5
S-2.1	Release/ Excavation	2/7/2018	Grab/Auger	Surface (42" BSL)	<0.05	10.7	39.8	340	<10.0
S-2.2	Release/ Excavation	2/7/2018	Grab/Auger	Surface (54" BSL)	2.560	973	3670	2820	<10.0
S-2.3**	Release/ Excavation	2/7/2018	Grab/Auger	Surface (66" BSL)	16.9	2050	15100	8780	168
CP-1	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	ND	ND	170	200
CP-2	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	ND	ND	120	120
CP-3	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	ND	ND	380	200
CP-4	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	8.7	160	3600	680
CP-4,1	Release/ Excavation	2/7/2018	Grab/Auger	Surface (30" BSL)	<2.0	47.0	4710	4060	79.5
CP-4.2	Release/ Excavation	2/7/2018	Grab/Auger	Surface (42" BSL)	13.4	1650.0	9200	5630	37.3
CP-4.3**	Release/ Excavation	2/7/2018	Grab/Auger	Surface (54" BSL)	<5.0	1160.0	6220	4140	28.7
S-2.05	Stock pile	9/21/2017	Grab/Shovel	6"	ND	0.690	31	2000	480

Site Ranking is Ten (10). Depth to Ground Water >100' (approx. 101', per USGS Groundwater Levels and NMOSE).

All results are ppm. BSL - Below Surface Level. Released: 26 B/C; Recovered: 0 B/C. Release Date: 9/7/2017
** - Backhoe Refusal.

RRAL's (0 Site Ranking), TPH: 5000ppm or less; BTEX: 50ppm or less; Benzene: 10ppm or less.

,



Figure 1

Site Map





Figure 2

Vertical Sample Point(s)







Figure 3

Horizontal Sample Point(s)







Appendix A

Water Well Date Site Map





Appendix B

NMOSE Well Log



New Mexico Office of the State Engineer Point of Diversion Summary

				ters are 1 rters are s			=SW 4=SE rgest)	(i) A statistical statistics	M in meters)	
Well Tag	PC	DD Number	Q64	Q16 Q4	Sec	Tws	Rng	х	Y	
	L	14107 POD1	3	4 4	18	105	35E	658821	3701464	•
Driller Lice	nse:	1611	Driller C	ompany	/: G	DER	TZEN DR	ILLING		
Driller Nam	e:	GOERTZEN, J	ОНИ							
Drill Start D)ate:	04/27/2016	Drill Fini	sh Date	:	04/	28/2016	Plug	Date:	
Log File Da	te:	05/18/2016	PCW Rc	v Date:				Sour	ce:	Shallow
Pump Type	:		Pipe Dis	charge	Size:			Estin	nated Yiel	d:
Casing Size	e:	6.00	Depth W	ell:		117	7 feet	Dept	h Water:	90 feet
	Wate	r Bearing Strati	fications:	Тор	Bott	om	Descrip	tion		
				58		105	Sandsto	ne/Gravel/	Conglome	rate
				105	1.1.2	112	Other/Ur	nknown		
-				112		117	Other/Ur	nknown		
		Casing Per	forations:	Тор	Bott	om				
				0	11	117				

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



Appendix C

USGS Groundwater Level Information



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National Water Information System: Web Interface

USGS Water Resources

Data Category: Site Information

✓ Geographic Area:

GO

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USGS 332852103234601 10S.35E.06.211134

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

Well Site

DESCRIPTION:

Latitude 33°28'58", Longitude 103°23'58" NAD27 Lea County, New Mexico , Hydrologic Unit 12080006 Well depth: not determined. Land surface altitude: 4,159.00 feet above NGVD29. Well completed in "Cretaceous System" (210CRCS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1981-04-	1996-01-	1
measurements	10	30	4

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

Email questions about this site to <u>New Mexico Water Science Center Water-</u> Data Inquiries

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https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=332852103234... 10/24/2017

Data Tips Explanation of terms Subscribe for system changes News

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U.S. Department of the Interior | U.S. Geological Survey Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2017-10-24 08:46:14 EDT 0.45 0.43 caww02





National Water Information System: Web Interface USGS Water Resources

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Data Category:	Geographic Area:	-	
Groundwater 💊	Geographic Area:	Ý	GO

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Groundwater levels for the Nation

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Agency code = usgs

site_no list = • 332852103234601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 332852103234601 10S.35E.06.211134

Lea County, New Mexico Latitude 33°28'58", Longitude 103°23'58" NAD27 Land-surface elevation 4,159.00 feet above NGVD29

This well is completed in the Cretaceous System (210CRCS) local aquifer.

Output formats

Table of data

Tab-separated data Graph of data

Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency'	? Source of measurem
								1	1	1
1981-04-10		D	105.95			2			J	
1986-04-22		D	105.10			2		()	
1991-01-25		D	104.36			2			1	
1996-01-30		D	103.83			2		2	2	

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

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https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=332852103234601&agency_cd=... 10/24/2017



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National Water Information System: Web Interface USGS Water Resources

Geographic Area:	_	
United States	V	GO
	Geographic Area: United States	Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs site_no list = • 332332103260001

Minimum number of levels = 1 Save file of selected sites to local disk for future upload

USGS 332332103260001 11S.35E.05.132222

Lea County, New Mexico Latitude 33°23'32", Longitude 103°26'00" NAD27 Land-surface elevation 4,153 feet above NAVD88 This well is completed in the Ogallala Formation (1210GLL) local aquifer.



Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	7 Method of measurement	7 . Measuring agency	? Source of measurem
1981-02-17		D	105.98			2			u	
1986-05-05		D	153.44			2			U	
1990-12-06		D	155.51			2			U	

Explanation							
Section	Code	Description					
Water-level date-time accuracy	D	Date is accurate to the Day					
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot					
Status	1	The reported water-level measurement represents a static level					
Method of measurement	U	Unknown method.					
Measuring agency		Not determined					
Source of measurement	U	Source is unknown.					
Water-level approval status	A	Approved for publication Processing and review completed.					
Water-level approval status	A	Approved for publication Processing and review completed.					

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GO



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Geographic Area:

United States

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater

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Agency code = usgs site_no list =

• 332332103260001

Minimum number of levels = 1

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USGS 332332103260001 11S.35E.05.132222

Available data for this site Groundwater: Field measurements ✓ GO Lea County, New Mexico Hydrologic Unit Code --Latitude 33°23'32", Longitude 103°26'00" NAD27 Land-surface elevation 4,153 feet above NAVD88 This well is completed in the Ogallala Formation (1210GLL) local aquifer. Output formats

 Table of data

 Tab-separated data

 Graph of data

 Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Geographic Area:

United States

V

National Water Information System: Web Interface

USGS Water Resources

Data Category:	
Groundwater	8

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Search Results -- 1 sites found

Agency code = usgs site_no list =

• 332500103270701

Minimum number of levels = 1

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USGS 332500103270701 10S.34E.27.14210

Available data for this site	Groundwater:	Field measurements	~	GO	
Lea County, New Mexico	1.0				
Hydrologic Unit Code 1208	0001				
Latitude 33°25'16", Longi			4		
Land-surface elevation 4,1	90.00 feet a	above NGVD29			
This well is completed in the			RCS)	local aquifer.	
	Outpu	ut formats			
<u>Table of data</u>					
Tab-separated data					
<u>Graph of data</u>					
Reselect period					



Breaks in the plot represent a gap of at least one year between field measurements.

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0.95 0.84 nadww01

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Data Category:	Geographic Area:	-
Groundwater V	Geographic Area:	GO

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USGS 332500103270701 10S.34E.27.14210

D

54.92

Lea County, New Mexico Latitude 33°25'16", Longitude 103°27'11" NAD27 Land-surface elevation 4,190.00 feet above NGVD29 This well is completed in the Cretaceous System (210CRCS) local aquifer.



2

1976-05-04

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

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Page Contact Information: USGS Water Data Support Team Page Last Modified: 2017-11-10 10:05:08 EST 0.48 0.4 nadww01

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Appendix D

Soil Sample Laboratory Data



February 22, 2018

ROBERT ASHER EOG Y RESOURCES, INC 105 SOUTH 4TH STREET ARTESIA, NM 88210

RE: JUDSON AUU STATE COM #2

Enclosed are the results of analyses for samples received by the laboratory on 02/16/18 14:35.

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 www.tceq.texas.gov/field/ga/lab_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.

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



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

02/16/2018	Sampling Date:	02/07/2018
02/22/2018	Sampling Type:	Soll
JUDSON AUU STATE COM #2	Sampling Condition:	Cool & Intact
30-025-36886	Sample Received By:	Tamara Oldaker
LEA CO NM		
	02/22/2018 JUDSON AUU STATE COM #2 30-025-36886	02/22/2018Sampling Type:JUDSON AUU STATE COM #2Sampling Condition:30-025-36886Sample Received By:

Sample ID: S - 1.1 (H800495-01)

mg	/kg	Analyze	d By: MS	_				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<5.00	5.00	02/20/2018	ND	2.22	111	2.00	0.215	
166	5.00	02/20/2018	ND	2.18	109	2.00	0.136	
47.7	5.00	02/20/2018	ND	2.16	108	2.00	0.166	
1390	15.0	02/20/2018	ND	6.65	111	6.00	0.355	
1600	30.0	02/20/2018	ND					
	Result <5.00 166 47.7 1390	<5.00 5.00 166 5.00 47.7 5.00 1390 15.0	Result Reporting Limit Analyzed <5.00	Result Reporting Limit Analyzed Method Blank <5.00	Result Reporting Limit Analyzed Method Blank BS <5.00	Result Reporting Limit Analyzed Method Blank BS % Recovery <5.00	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <5.00	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <5.00

Surrogate: 4-Bromofluorobenzene (PIC 112 % 72-148

TPH 8015M	mg/l	mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	7080	50.0	02/19/2018	ND	203	101	200	2.12		
DRO >C10-C28*	6110	50.0	02/19/2018	ND	230	115	200	0.552		
EXT DRO >C28-C36	<50.0	50.0	02/19/2018	ND						
Surrogate: 1-Chlorooctane	416%	6 41-142	6							
Surrogate: 1-Chlorooctadecane	157%	6 37.6-14	7							

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*=Accredited Analyte

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Celeg D. Keine



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

Received:	02/16/2018	Sampling Date:	02/07/2018
Reported:	02/22/2018	Sampling Type:	Soil
Project Name:	JUDSON AUU STATE COM #2	Sampling Condition:	Cool & Intact
Project Number:	30-025-36886	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1.2 (H800495-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.11	5.00	02/20/2018	ND	2.22	111	2.00	0.215	
Toluene*	285	5.00	02/20/2018	ND	2.18	109	2.00	0.136	
Ethylbenzene*	49.8	5.00	02/20/2018	ND	2,16	108	2,00	0.166	
Total Xylenes*	988	15.0	02/20/2018	ND	6.65	111	6.00	0.355	
Total BTEX	1330	30.0	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 110 %

TPH 8015M	mg	/kg	Analyze	d By: MS	_				S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5870	10.0	02/19/2018	ND	203	101	200	2.12	
DRO >C10-C28*	4800	10.0	02/19/2018	ND	230	115	200	0.552	
EXT DRO >C28-C36	74.7	10,0	02/19/2018	ND					

72-148

Surrogate: 1-Chlorooctadecane 160 % 37.6-147

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

Received:	02/16/2018	Sampling Date:	02/07/2018
Reported:	02/22/2018	Sampling Type:	Soll
Project Name:	JUDSON AUU STATE COM #2	Sampling Condition:	Cool & Intact
Project Number:	30-025-36886	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2.0 (H800495-03)

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	02/20/2018	ND	2.22	111	2.00	0.215	
Toluene*	0.164	0.050	02/20/2018	ND	2,18	109	2.00	0.136	
Ethylbenzene*	<0.050	0.050	02/20/2018	ND	2.16	108	2.00	0.166	
Total Xylenes*	0.343	0.150	02/20/2018	ND	6.65	111	6.00	0.355	
Total BTEX	0.506	0.300	02/20/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 72-148							
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2018	ND	203	101	200	2.12	
DRO >C10-C28*	530	10.0	02/19/2018	ND	230	115	200	0.552	
EXT DRO >C28-C36	56.5	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	93.1 9	6 41-142	0						
Surrogate: 1-Chlorooctadecane	111 %	6 37.6-14	7						

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*=Accredited Analyte

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Celeg Di Keine



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

Received:	02/16/2018	Sampling Date:	02/07/2018
Reported:	02/22/2018	Sampling Type:	Soil
Project Name:	JUDSON AUU STATE COM #2	Sampling Condition:	Cool & Intact
Project Number:	30-025-36886	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2.1 (H800495-04)

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	02/20/2018	ND	2.22	111	2.00	0.215	
Toluene*	0.280	0.050	02/20/2018	ND	2.18	109	2.00	0.136	
Ethylbenzene*	0.771	0.050	02/20/2018	ND	2.16	108	2.00	0.166	
Total Xylenes*	9.62	0.150	02/20/2018	ND	6.65	111	6.00	0.355	
Total BTEX	10.7	0.300	02/20/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1169	6 72-148		1.000					
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*	39.8	10.0	02/20/2018	ND	203	101	200	2.12	
DRO >C10-C28*	340	10.0	02/20/2018	ND	230	115	200	0.552	
EXT DRO >C28-C36	<10.0	10.0	02/20/2018	ND					

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane

93.4% 41-142 95.0% 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 12



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

Received:	02/16/2018	Sampling Date:	02/07/2018
Reported:	02/22/2018	Sampling Type:	Soil
Project Name:	JUDSON AUU STATE COM #2	Sampling Condition:	Cool & Intact
Project Number:	30-025-36886	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2.2 (H800495-05)

BTEX 8021B	mg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.56	2.00	02/20/2018	ND	2.22	111	2.00	0.215	
Toluene*	147	2.00	02/20/2018	ND	2.18	109	2.00	0.136	
Ethylbenzene*	64.1	2.00	02/20/2018	ND	2.16	108	2.00	0.166	
Total Xylenes*	759	6.00	02/20/2018	ND	6.65	111	6.00	0.355	
Total BTEX	973	12.0	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 118 % 72-148

TPH 8015M	mg/l	¢g	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3670	10.0	02/20/2018	ND	203	101	200	2.12	
DRO >C10-C28*	2820	10.0	02/20/2018	ND	230	115	200	0.552	
EXT DRO >C28-C36	<10.0	10.0	02/20/2018	ND					
Surrogate: 1-Chlorooctane	247 %	6 41-142	(
Surrogate: 1-Chlorooctadecane	120 %	37.6-14	2						

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Celey Di Kune



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

Received:	02/16/2018	Sampling Date:	02/07/2018
Reported:	02/22/2018	Sampling Type:	Soil
Project Name:	JUDSON AUU STATE COM #2	Sampling Condition:	Cool & Intact
Project Number:	30-025-36886	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		
Contraction of the second s			

Sample ID: S - 2.3 (H800495-06)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	16.9	5.00	02/20/2018	ND	2.22	111	2.00	0,215	
Toluene*	475	5.00	02/20/2018	ND	2.18	109	2.00	0.136	
Ethylbenzene*	129	5.00	02/20/2018	ND	2.16	108	2.00	0.166	
Total Xylenes*	1430	15.0	02/20/2018	ND	6,65	111	6.00	0.355	
Total BTEX	2050	30.0	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 110 % 72-148

TPH 8015M	mg/kg		Analyzed By: MS			_		S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	15100	100	02/21/2018	ND	222	111	200	6.62	
DRO >C10-C28*	8780	100	02/21/2018	ND	219	110	200	5.64	
EXT DRO >C28-C36	168	100	02/21/2018	ND					
Surrogate: 1-Chlorooctane	551	Va 41-142	1						

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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Analytical Results For:

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

Received:	02/16/2018	Sampling Date:	02/07/2018
Reported:	02/22/2018	Sampling Type:	Soll
Project Name:	JUDSON AUU STATE COM #2	Sampling Condition:	Cool & Intact
Project Number:	30-025-36886	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: CP - 4.1 (H800495-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/19/2018	ND	2.06	103	2,00	11.8	QM-07
Toluene*	4.17	2.00	02/19/2018	ND	2.09	104	2.00	11.5	QM-07
Ethylbenzene*	<2.00	2.00	02/19/2018	ND	2.09	104	2,00	10.8	QM-07
Total Xylenes*	42.9	6.00	02/19/2018	ND	6.10	102	6.00	10.4	QM-07
Total BTEX	47.0	12.0	02/19/2018	ND					

nalyzed Method	Blank BS	% Recovery	True Value QC	RPD	Our Hiller
			and the second second	14.0	Qualifier
20/2018 NC	222	111	200	6.62	
20/2018 NC	219	110	200	5.64	
20/2018 NC					
12	20/2018 ND	20/2018 ND 219	20/2018 ND 219 110	20/2018 ND 219 110 200	20/2018 ND 219 110 200 5.64

37.6-147

Surrogate: 1-Chlorooctadecane 135 %

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

02/16/2018	Sampling Date:	02/07/2018
02/22/2018	Sampling Type:	Soil
JUDSON AUU STATE COM #2	Sampling Condition:	Cool & Intact
30-025-36886	Sample Received By:	Tamara Oldaker
LEA CO NM		
	02/22/2018 JUDSON AUU STATE COM #2 30-025-36886	02/22/2018Sampling Type:JUDSON AUU STATE COM #2Sampling Condition:30-025-36886Sample Received By:

Sample ID: CP - 4.2 (H800495-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.4	5.00	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	263	5.00	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	72.2	5.00	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	1300	15.0	02/19/2018	ND	6.10	102	6.00	10,4	
Total BTEX	1650	30.0	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	127 9	% 72-148							
TPH 8015M	mg/	kg	Analyze	d By: MS		_		_	S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9200	10.0	02/20/2018	ND	222	111	200	6.62	
DRO >C10-C28*	5630	10.0	02/20/2018	ND	219	110	200	5.64	
EXT DRO >C28-C36	37.7	10.0	02/20/2018	ND					
Surrogate: 1-Chlorooctane	4129	6 41-142	h.						
Surrogate: 1-Chlorooctadecane	141 9	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

02/16/2018	Sampling Date:	02/07/2018
02/22/2018	Sampling Type:	Soll
JUDSON AUU STATE COM #2	Sampling Condition:	Cool & Intact
30-025-36886	Sample Received By:	Tamara Oldaker
LEA CO NM		
	02/22/2018 JUDSON AUU STATE COM #2 30-025-36886	02/22/2018Sampling Type:JUDSON AUU STATE COM #2Sampling Condition:30-025-36886Sample Received By:

Sample ID: CP - 4.3 (H800495-09)

BTEX 8021B	mg/l	kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	02/20/2018	ND	2.23	112	2.00	14.1	QM-07, QR-0
Toluene*	189	5.00	02/20/2018	ND	2.18	109	2.00	13.4	QM-07, QR-03
Ethylbenzene*	68.5	5.00	02/20/2018	ND	2.15	107	2.00	11.7	QM-07, QR-03
Total Xylenes*	900	15.0	02/20/2018	ND	6.60	110	6.00	11,1	QM-07
Total BTEX	1160	30.0	02/20/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	112 %	5 72-148							1.1.1
TPH 8015M	mg/l	(g	Analyze	d By: MS		_		_	S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6220	10.0	02/20/2018	ND	222	111	200	6.62	
DRO >C10-C28*	4140	10,0	02/20/2018	ND	219	110	200	5.64	
EXT DRO >C28-C36	28.7	10.0	02/20/2018	ND					

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

322 %

124%

41-142

37.6-147



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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
÷	Chloride by 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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Celey D. Keene, Lab Director/Quality Manager

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Standard TAT	RUSH TAT (Pre-Sofiedule) 24,	N.O.R.M.	RCI	Semivolatiles BTEX 8021B/5030 or BTEX 8/	Metals: As Ag Ba Cd Cr Pb Hg Volatiles	Anions (CI) SAR / ESP / CEC	Cations (Ca, Mg, Na, K)	TPH: 8015M Extended TPH: TX 1005 TX 1006	GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	DW=Drinking Water SL=Sludge	Other (Specify)	Na ₂ S ₂ O ₃	NaOH	Hu H ₂ SO ₄	HNO3 HCI	lce	fotal #, of Containers	ield Filtered	Time Sampled	Date Sampled	nding Depth	Beginning Depth				AB # (lab use only)
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Page		#2	e Com #2	State	י אחר	Project Name: Judson AUU State	ime:	ect Na	Proje															r: Robert Asher	Project Manager:	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

September 29, 2017

Robert Asher EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX

OrderNo.: 1709E34

Dear Robert Asher:

RE: Judson AUU State Com 2

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/26/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

may

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order **1709E34** Date Reported: **9/29/2017**

CLIENT: EOG			Client Samp	le ID: S-	1.0	
Project: Judson AUU State Com 2			Collection	Date: 9/2	21/2017 1:25:00 PM	
Lab ID: 1709E34-001	Matrix: S	SOIL	Received	Date: 9 /2	:6/2017 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: TOM
Diesel Range Organics (DRO)	6500	96	mg/Kg	10	9/27/2017 12:23:26 PM	34083
Motor Oil Range Organics (MRO)	1100	480	mg/Kg	10	9/27/2017 12:23:26 PM	34083
Surr: DNOP	0	70-130	S %Rec	10	9/27/2017 12:23:26 PM	I 34083
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	48	23	mg/Kg	5	9/27/2017 6:58:40 PM	34082
Surr: BFB	148	54-150	%Rec	5	9/27/2017 6:58:40 PM	34082
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.11	mg/Kg	5	9/27/2017 6:58:40 PM	34082
Toluene	ND	0.23	mg/Kg	5	9/27/2017 6:58:40 PM	34082
Ethylbenzene	ND	0.23	mg/Kg	5	9/27/2017 6:58:40 PM	34082
Xylenes, Total	2.9	0.46	mg/Kg	5	9/27/2017 6:58:40 PM	34082

66.6-132

%Rec

5

9/27/2017 6:58:40 PM

34082

111

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

Qualifiers: *	
---------------	--

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/29/2017

CLIENT:	EOG		(Client Sampl	le ID: CF	P-1.1	
Project:	Judson AUU State Com 2			Collection]	Date: 9/2	21/2017 1:35:00 PM	
Lab ID:	1709E34-002	Matrix:	SOIL	Received]	Date: 9/2	26/2017 9:35:00 AM	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch
ΕΡΑ ΜΕΤ	THOD 8015M/D: DIESEL RANG	SE ORGANICS	S			Analyst	: том
Diesel R	ange Organics (DRO)	170	9.8	mg/Kg	1	9/27/2017 5:04:16 PM	34083
Motor Oi	l Range Organics (MRO)	200	49	mg/Kg	1	9/27/2017 5:04:16 PM	34083
Surr: [DNOP	99.8	70-130	%Rec	1	9/27/2017 5:04:16 PM	34083
EPA MET	THOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	9/28/2017 5:53:50 PM	34082
Surr: E	BFB	100	54-150	%Rec	1	9/28/2017 5:53:50 PM	34082
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene	•	ND	0.024	mg/Kg	1	9/28/2017 5:53:50 PM	34082
Toluene		ND	0.048	mg/Kg	1	9/28/2017 5:53:50 PM	34082
Ethylben	zene	ND	0.048	mg/Kg	1	9/28/2017 5:53:50 PM	34082
Xylenes,	Total	ND	0.096	mg/Kg	1	9/28/2017 5:53:50 PM	34082
Surr: 4	4-Bromofluorobenzene	102	66.6-132	%Rec	1	9/28/2017 5:53:50 PM	34082

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

* Qualifiers: D

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- Η
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/29/2017

CLIENT: I	EOG			Client Sampl	le ID: CF	2-2.1	
Project: J	Judson AUU State Com 2			Collection	Date: 9/2	21/2017 1:43:00 PM	
Lab ID:	1709E34-003	Matrix:	SOIL	Received	Date: 9/2	26/2017 9:35:00 AM	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METH	IOD 8015M/D: DIESEL RANG		6			Analyst	том
Diesel Ran	ige Organics (DRO)	120	9.5	mg/Kg	1	9/27/2017 5:32:06 PM	34083
Motor Oil F	Range Organics (MRO)	120	48	mg/Kg	1	9/27/2017 5:32:06 PM	34083
Surr: DN	I OP	97.5	70-130	%Rec	1	9/27/2017 5:32:06 PM	34083
EPA METH	OD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline R	ange Organics (GRO)	ND	5.0	mg/Kg	1	9/27/2017 7:45:29 PM	34082
Surr: BF	В	89.2	54-150	%Rec	1	9/27/2017 7:45:29 PM	34082
EPA METH	OD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.025	mg/Kg	1	9/27/2017 7:45:29 PM	34082
Toluene		ND	0.050	mg/Kg	1	9/27/2017 7:45:29 PM	34082
Ethylbenze	ene	ND	0.050	mg/Kg	1	9/27/2017 7:45:29 PM	34082
Xylenes, To	otal	ND	0.099	mg/Kg	1	9/27/2017 7:45:29 PM	34082
Surr: 4-E	Bromofluorobenzene	104	66.6-132	%Rec	1	9/27/2017 7:45:29 PM	34082

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- In Tholding times for preparation of analysis exceede
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Lab Order **1709E34** Date Reported: **9/29/2017**

CLIENT: EOG			Client Sampl	le ID: CF	P-3.1	
Project: Judson AUU State Com 2			Collection]	Date: 9/2	21/2017 1:47:00 PM	
Lab ID: 1709E34-004	Matrix:	SOIL	Received	Date: 9/2	26/2017 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analysi	: TOM
Diesel Range Organics (DRO)	380	9.2	mg/Kg	1	9/27/2017 5:59:57 PM	34083
Motor Oil Range Organics (MRO)	200	46	mg/Kg	1	9/27/2017 5:59:57 PM	34083
Surr: DNOP	96.6	70-130	%Rec	1	9/27/2017 5:59:57 PM	34083
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/27/2017 8:08:59 PM	34082
Surr: BFB	93.1	54-150	%Rec	1	9/27/2017 8:08:59 PM	34082
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/27/2017 8:08:59 PM	34082
Toluene	ND	0.048	mg/Kg	1	9/27/2017 8:08:59 PM	34082
Ethylbenzene	ND	0.048	mg/Kg	1	9/27/2017 8:08:59 PM	34082
Xylenes, Total	ND	0.095	mg/Kg	1	9/27/2017 8:08:59 PM	34082
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	9/27/2017 8:08:59 PM	34082

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

Qualifiers:	*	1

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/29/2017

CLIENT: EOG			C	lient Sampl	e ID: CF	2-4.1	
Project: Judson AUU State Com 2				Collection]	Date: 9/2	21/2017 1:49:00 PM	
Lab ID: 1709E34-005	Matrix:	SOIL		Received 1	Date: 9/2	26/2017 9:35:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG		S				Analyst	: TOM
Diesel Range Organics (DRO)	3600	97		mg/Kg	10	9/27/2017 2:15:24 PM	34083
Motor Oil Range Organics (MRO)	680	480		mg/Kg	10	9/27/2017 2:15:24 PM	34083
Surr: DNOP	0	70-130	S	%Rec	10	9/27/2017 2:15:24 PM	34083
EPA METHOD 8015D: GASOLINE RANG	θE					Analyst	: NSB
Gasoline Range Organics (GRO)	160	48		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Surr: BFB	165	54-150	S	%Rec	10	9/27/2017 8:32:31 PM	34082
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.24		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Toluene	ND	0.48		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Ethylbenzene	ND	0.48		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Xylenes, Total	8.7	0.96		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	10	9/27/2017 8:32:31 PM	34082

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

* Qualifiers:

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 9 J
- Ρ Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1709E34 Date Reported: 9/29/2017

CLIENT: EOG			Client Samp	le ID: S-2	2.05	
Project: Judson AUU State Com 2			Collection	Date: 9/2	21/2017 1:59:00 PM	
Lab ID: 1709E34-006	Matrix:	SOIL	Received	Date: 9/2	26/2017 9:35:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	: TOM
Diesel Range Organics (DRO)	2000	37	mg/Kg	4	9/27/2017 6:27:31 PM	34083
Motor Oil Range Organics (MRO)	480	180	mg/Kg	4	9/27/2017 6:27:31 PM	34083
Surr: DNOP	127	70-130	%Rec	4	9/27/2017 6:27:31 PM	34083
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst	: NSB
Gasoline Range Organics (GRO)	31	19	mg/Kg	4	9/28/2017 6:40:33 PM	34082
Surr: BFB	136	54-150	%Rec	4	9/28/2017 6:40:33 PM	34082
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.096	mg/Kg	4	9/28/2017 6:40:33 PM	34082
Toluene	ND	0.19	mg/Kg	4	9/28/2017 6:40:33 PM	34082
Ethylbenzene	ND	0.19	mg/Kg	4	9/28/2017 6:40:33 PM	34082
Xylenes, Total	0.69	0.38	mg/Kg	4	9/28/2017 6:40:33 PM	34082
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	4	9/28/2017 6:40:33 PM	34082

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

Qualifiers: * Value exc

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client:EOGProject:Judson	AUU State (Com 2								
Sample ID LCS-34083	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 34	083	F	RunNo: 4	5917				
Prep Date: 9/26/2017	Analysis D	ate: 9/	27/2017	5	SeqNo: 1	459346	Units: mg/k	ξg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.3	73.2	114			
Surr: DNOP	4.4		5.000		88.4	70	130			
Sample ID MB-34083	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 34	083	F	RunNo: 4	5917				
Prep Date: 9/26/2017	Analysis Da	ate: 9/	27/2017	5	SeqNo: 14	459351	Units: mg/H	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.9	70	130			

Qualifiers:

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1709E34 29-Sep-17

Client:

EOG Judson AUU State Com 2 **Project:**

Sample ID MB-34082 Client ID: PBS		Type: ME h ID: 34			tCode: El RunNo: 4		8015D: Gasc	oline Rang	e	
Prep Date: 9/26/2017	Analysis D)ate: 9/	27/2017	S	SeqNo: 14	459919	Units: mg/H	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 920	5.0	1000		91.6	54	150			
Sample ID LCS-34082	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch	n ID: 34	082	F	RunNo: 4	5928				
Prep Date: 9/26/2017	Batch Analysis D		•		RunNo: 4 SeqNo: 14		Units: mg/k	ζg		
Prep Date: 9/26/2017			27/2017		-		Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual
	Analysis D)ate: 9/	27/2017	S	SeqNo: 14	159930	U U	•	RPDLimit	Qual

Qualifiers:

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

Page 8 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1709E34

29-Sep-17

Client:

EOG Judson AUU State Com 2 **Project:**

			· · · ···							
Sample ID MB-34082	Samp	Гуре: МВ	зlk	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 34	082	F	RunNo: 4	5928				
Prep Date: 9/26/2017	Analysis I	Date: 9/	27/2017	S	SeqNo: 1	459967	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	66.6	132			
Sample ID LCS-34082	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID: LCSS	Batcl	h ID: 34	082	F	RunNo: 4	5928				
Prep Date: 9/26/2017	Analysis D	Date: 9/	27/2017	S	SeqNo: 1	459968	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	66.6	132			

Oualifiers:

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

Page 9 of 9

HALL Environmental Analysis Laboratory		01 Harrkins que, NM 87 ; 505-345-4	NE 109 Sam 107	ple Log-In Check List
Client Name: EOG/Yates	Work Order Number: 170)9E34		ReptNo: 1
Received By: Issiah Ortiz 9/2	26/2017 9:35:00 AM		IGh	
	26/2017 10:52:56 AM 2 <i>G</i> //7		giptal - bigan	
Chain of Custody				
1 Custody seals intact on sample bottles?	Ye	is 🗍	No 🗌	Not Present 🗹
2. Is Chain of Custody complete?	Yu	is 🗹	No 🗌	Not Present
3. How was the sample delivered?	<u>Cc</u>	<u>usier</u>		
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Y	rs 🗹	No 🗔	na 🗔
5. Were all samples received at a temperature of	>0" C to 8.0"C Ye	s 🗹	No 🗔	
Sample(s) in proper container(s)?	Ye	as 🔽	No 🗌	
7. Sufficient sample volume for indicated test(s)?	Ye	s 🗹	No 🗔	
8. Are samples (except VOA and ONG) properly pr	eserved? Ye	s 🔽	No 🗌	
9. Wes preservative added to bottles?	Ye	5	No 🗹	NA
0. VOA vials have zero headspace?	Ye	s []]	No 🗍	No VOA Vials 🗹
1. Were any sample containers received broken?	Ye	s 🗆	No 🔽	# of preserved
2. Does paperwork match bottle labels?	Ye	• 🗹	No 🗆	bottles checked for pH:
(Note discrepancies on chain of custody)				(<2 pr > 12 unless noted Adjusted?
3. Are matrices correctly identified on Chain of Cus	-	(****)	No 🗌	1000001
 Is it clear what analyses were requested? Were all holding times able to be met? 	Ye	s 🗹	No 🗌	Checked by:
(If no, notify customer for authorization.)	Te			
pecial Handling (if applicable)				
6. Was client notified of all discrepancies with this c	order? Yes	; 🗆	No 🗌	NA 🗹
Person Notified:	Date	- in the second s		
By Whom:	Via: 🗌 ek	lall 🗌 Ph	ione 🗌 Fax [In Person
Regarding			······································	
Client Instructions:				
7. Additional remarks:				
8. Cooler Information			I	
Cooler No Temp % Condition Seal In 1 4.2 Good Yes	tact Seal No Seal D	ate S	Bigned By	
1			I	

Client: Exercise Resources, Inc. Sensence And La UNIX SUD MERITAL Polied Name: Value Name: Polied Name: Polied Name: Max 152 FM Max 2570 Max 152 FM Ma	Ċ	lain-of	-Cus	Chain-of-Custody Record	Turn-Around Time:	Time:								Γ	
Project Name: Project		EOG Reso	ources, I	ÿ	Standard	Rush			HAN	LL EN	VIR	N	MENTAL		
Gedines: Oddines:					Project Name	-							KAIUK		
Bit, MW 86210 Project #: EREMIN 86210 Tel. 50-345-3017 Tel. 50-345-3017 Ref. (537) 743-4217 31-002 36000 Tel. 60-345-3017 31-002 Ref. (537) 743-4217 31-002 31-002 3000 Tel. 60-345-3017 Analysis Request CP Padoet: □ □ □ □ □ □ 1 <t< td=""><td>Mailing Ad</td><td>dress: 105</td><td>South 4</td><td>tth Street</td><td>Judson AUU</td><td>State Com #</td><td>2</td><td>4901</td><td>ww Hawkins</td><td>NE - Alb</td><td>nonmen</td><td>Tal.co</td><td>m A 87109</td><td></td></t<>	Mailing Ad	dress: 105	South 4	tth Street	Judson AUU	State Com #	2	4901	ww Hawkins	NE - Alb	nonmen	Tal.co	m A 87109		
Ref. (275) 742.17 3C/02-3686 Ref. (275) 742.17 3C/02-3686 Ref. (275) 742.17 3C/02-3686 Project Astrefegeogresources.com Project Astrefegeogresources.com Project Astrefegeogresources.com Ref. (276) 742.17 Contraction Sampler: Retent Astrefegeogresources.com Project Astrefegeogresources.com Project Astrefegeogresources.com Ref. (270) 70.11 Contraction Sampler: Retent Astrefegeogresources.com Sampler: Retent Astreference Anions Anions <tha< td=""><td>Artesia, N</td><td>M 88210</td><td></td><td></td><td>Project #:</td><td></td><td></td><td>Tel 5</td><td>05-345-</td><td>3975</td><td>APPerer</td><td>245</td><td>107</td><td>-</td></tha<>	Artesia, N	M 88210			Project #:			Tel 5	05-345-	3975	APPerer	245	107	-	
If: Robert Astrenc@eogreeounces.com Project Manager: CPProdops: CPProdops: Robert Astrenc@eogreeounces.com Robert Astrenc@eogreeounces.com Robert Astrenc@eogreeounces.com Robert Astrenc Robert Astrenc@eogreeounces.com Robert Astrenc@eogreeounces.com Robert Astrence Sample representations Sample representations Some table and the representations Field (Full Validation) On (Type) Onlos: Sample representations Units: Sample representations Units: Onlos: Difference Sample Request ID Units: The Rest And Rest HPH (doad onk); I) I Onlos: Difference Sample Request ID Units: I Units: I <td>Phone #. (</td> <td>575) 748-4</td> <td>1217</td> <td></td> <td>30-025-3688</td> <td>6</td> <td></td> <td></td> <td></td> <td>alys</td> <td>is Requi</td> <td>est</td> <td>101+</td> <td></td>	Phone #. (575) 748-4	1217		30-025-3688	6				alys	is Requi	est	101+		
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Appendix E

Form C-141 Initial

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa	a Fe, NM 87505						
Release Notificat	tion and C	orrective A	ction		1.000		
	OPERA	TOR	🖂 Init	tial Report	Final Report		
Name of CompanyOGRID NumbeEOG Y Resources, Inc.25575							
Address 104 S. 4 th Street	Telephone 575-748-14						
Facility Name	Facility Type						
Judson AUU State Com #2	Battery			_			
Surface OwnerMineral OwnStateState	ier		API N 30-02:	o. 5-36886			
LOCAT	ION OF RE	ON OF RELEASE					
	orth/South Line South	Feet from the 1980	East/West Line East	County Lea			
Latitude_32.412	72_Longitude	e 103.43251					
NATU	RE OF REL	EASE					
Type of Release	Volume of	The Area di Area		Recovered	1		
Condensate Source of Release	26 B/C Date and F	Iour of Occurrent	0 B/C	Hour of Disc	OVERU		
Production Tank	9/7/2017;1	PM	9/7/2017		overy		
Was Immediate Notice Given?	red Olivia Yu/						
By Whom?	Date and H						
Robert Asher/ EOG Y Resources Was a Watercourse Reached?	9/8/2017; A	AM olume Impacting (ha Watawaawaa				
Yes X No	II 1E5, VC	nume impacting	ne watercourse.				
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.*				_			
Hole discovered in tank bottom, causing the release. Tank removed. Describe Area Affected and Cleanup Action Taken.*				_			
An approximate area of 20'X 20'. The well and valves were closed. The applicable in-place remediation will be conducted. Vertical and hori initial analytical results for TPH & BTEX are under RRAL's a Final R results are above the RRAL's a work plan will be submitted to the OC Levels), Wellhead Protection Area: No, Distance to Surface Water	zontal delineation Report, C-141 will D. Depth to Gro Body: >1000', S	n samples will be l be submitted to ound Water: <50 SITE RANKING	collected and anal the OCD requestir ' (approximately IS 20.	ysis ran for T ng closure. If 36', per USO	PH & BTEX. If the analytical SS Groundwater		
I hereby certify that the information given above is true and complete the regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remeet or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	to the best of my se notifications ar the NMOCD main diate contamination	knowledge and u nd perform correc arked as "Final Ro on that pose a thre	nderstand that pur tive actions for rel eport" does not rel eat to ground wate	eases which r ieve the opera r, surface wat	nay endanger itor of liability er, human health		
Signature: CasQue.		OIL CONS	SERVATION	DIVISIO	N		
Printed Name: Robert Asher	Approved by	Environmental S _I	oecialist:				
Title: Environmental Supervisor	Approval Date	e:	Expiration	Date:			
E-mail Address: Robert_Asher@eogresources.com	Conditions of	Approval:		Attacked			
Date: September 22, 2017 Phone: 575-748-4217 Attach Additional Sheets If Necessary	1RP-			Attached			