Environmental Site Remediation Work Plan



General Information

NMOCD District:	District 2	Incident ID:	nMCS0124838636
Landowner:	Private	RP Reference:	N/A
Client:	EOG Resources, Inc.	Site Location:	Federal AB-B Battery
Date:	May 25, 2023	Project #:	22E-00123-15
Client Contact:	Chase Settle	Phone #:	575.748.4171
Vertex PM:	Chance Dixon	Phone #:	575.988.1472

Objective

The objective of the Environmental Site Remediation Work Plan is to identify areas of exceedance for areas of concern delineated during assessment and site characterization activities, and propose appropriate remediation techniques to address the release for the Federal AB-B Battery (hereafter referred to as "Federal AB-B"). The incident occurred when lightning struck part of the tank battery causing the release of approximately 10 barrels (bbls) of basic sediment and water. The lightning strike caused fluids to ignite and affected an area west of the lease road (4 x 50 ft). Closure criteria has been selected as per New Mexico Administrative Code (NMAC) 19.15.29.12. The closure criteria for the site is presented below (Table 1).

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
< 50 feet	втех	50 mg/kg
	Benzene	10 mg/kg

TDS – Total dissolved solides

TPH – Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO),

BTEX - Benzene, toluene, ethylbenzene, and xylenes

Site Assessment/Characterization

Site characterization was initiated on November 5, 2021, and a request for closure was submitted to NMOCD due to the site meeting Recommended Remediation Action Levels in effect at the time of release. The closure was denied, as the excavation did not encompass the entire extent of the contamination discovered in the area (BH21-02). Characterization was resumed and was completed on March 17, 2023. A total of 17 sample points (boreholes and test pits) were established during the delineation events in 2021 and 2023. They were obtained at various depths for horizontal and vertical delineation. Samples collected at the deepest vertical distance and horizontal distance below closure criteria were submitted to the laboratory for analysis. In total, 11 samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis. The characterization sampling locations are presented in Figure 1 (Attachment 2). Laboratory analyses were compared to the above-noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 3).



Previous Remediation Completed

In 2019 and early 2020, Resources, Inc. (EOG) performed remediation at Federal AB-B. An area within the containment was excavated until the wall samples and base samples met the criteria as determined in 19.15.29.13 NMAC. The excavation in the containment was backfilled with clean sediments. NMOCD approved Closure of the incident (nRM1932255004) on May 28, 2020.

Site assessment was initiated by Vertex Resource Services Inc. (Vertex) on November 5, 2021, and a request for closure was submitted to New Mexico Oil Conservation Division (NMOCD) due to the site meeting Recommended Remediation Action Levels in effect at the time of release (2001). The closure was denied by NMOCD with the stipulation that the remaining impacted area meet the requirements of 19.15.29.12 NMAC. Characterization was resumed and was completed in March 2023 to vertically and horizontally delineate BH21-02. Due to the previous remediation being completed by the requirements set forth in 19.15.29.12 NMAC, no delineation points were collected from the area addressed in the completion of that remediation as all confirmation samples fell within the required criteria prior to backfill with clean, non-impacted soil. Vertex and EOG have proposed additional remedial activities below.

Remedial Activities

Areas identified with contaminant concentrations above closure criteria of the current Spill Rule (19.15.29.12 NMAC) will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. The soil will be excavated to the extent of the known contamination with field screening utilized to confirm the removal of contaminated soil below the applicable closure criteria. Once the excavation is complete, confirmatory samples will be collected from the bottom and sidewalls of the excavation to meet the one sample per 200 square feet requirement and analysis will be completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

Exceedances to closure criteria were found at sample points BH21-02, TP23-06 to TP23-09, TP23-11, and TP23-14 to TP23-19. Mechanical excavation equipment will be used to complete the excavation at these boreholes. The estimated volume to be excavated is 300 yards.

Sample Point	Excavation Depth	Remediation Method
01121.02	C'	Deckhoo
BH21-02	6'	Backhoe
TP23-06	2'	Backhoe
TP23-07	2'	Backhoe
TP23-08	2'	Backhoe
TP23-09	2'	Backhoe
TP23-10	2'	Backhoe
TP23-11	2'	Backhoe
TP23-14	2'	Backhoe
TP23-15	2'	Backhoe
TP23-16	2'	Backhoe
TP23-17	2'	Backhoe
TP23-18	2'	Backhoe
TP23-19	2'	Backhoe

Environmental Site Remediation Work Plan

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.988.1472 or cdixon@vertex.ca.

Sally Carttar

5/25/2023

Sally Carttar, B.A. INTERMEDIATE ENVIRONMENTAL TECHNOLOGIST, REPORTING Date

hance Dison

Chance Dixon, B.Sc. PROJECT MANAGER, REPORT REVIEW

5/25/2023

Date

Attachments

Attachment 1. NMOCD C-141 Report Attachment 2. Figure Attachment 3. Table Attachment 4. Denied Closure Report by EOG of 163

ATTACHMENT 1

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	nMCS0124838636
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377	
Contact Name Chase Settle	Contact Telephone 575-748-1471	
Contact email Chase_Settle@eogresources.com	Incident # (assigned by OCD) nMCS0124838636	
Contact mailing address 104 S. 4th Street, Artesia, NM 88210		

Location of Release Source

Latitude 32.69833

Longitude -104.51331 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Federal AB-B Battery	Site Type Battery
Date Release Discovered 08/16/2001	API# (if applicable) 30-015-23643

Unit Letter	Section	Township	Range	County
М	32	18S	25E	Eddy

Surface Owner: State Federal Tribal Private (Name: 4-Dinkus Ranch

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
BS&W & Produced Water Mix	10 Bbls	0 bbls
Cause of Release Pleas	e refer to the original C-141 for details of	nMCS0124838636.
L		

rm C-141	23 3:01:16 PM State of New Mexico	x 11 . x	Page 6
	Oil Conservation Division	Incident ID	nMCS0124838636
e 2	On Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? Ves No	If YES, for what reason(s) does the responsible part Due to the lightning causing a fire, the r		
	Inotice given to the OCD? By whom? To whom? When ins to Van Barton- OCD and Jim Amos- E		
Yes, by Darrell Atki			
Yes, by Darrell Atki	Initial Response	e	
			ld result in injury
	Initial Response e party must undertake the following actions immediately unless they		ld result in injury
The responsible	Initial Response e party must undertake the following actions immediately unless they	y could create a safety hazard that wou	ld result in injury

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name:	Chase	Settle
I I IIIICU I Vallie.	Unase	OCUIC

_____ Signature: Chase Settle Date: 08/31/2022

Title: Rep Safety & Environmental Sr

Telephone: 575-748-1471

email: Chase_Settle@eogresources.com

OCD Only

Received by:

Date:

Received by OCD: 5/25/2023 3:01:16 PM Form C-141 State of New Mexico

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Oil Conservation Division

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Incident ID	nMCS0124838636
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗶 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗶 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗶 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🕅 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗶 No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes 🗌 No

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

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

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

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

Received by OCD: 5/25/2023 3:01 Form C-141	1:16 PM				Page 8 of 163
				Incident ID	nMCS0124838636
Page 4	Oil Conservation Division			District RP	
				Facility ID	
				Application ID	
regulations all operators are required public health or the environment. T failed to adequately investigate and		ifications and pe DCD does not re eat to groundwat responsibility fo	erform co lieve the ter, surfa or compl Safety 25/202	exprective actions for rele coperator of liability sho ce water, human health liance with any other feo & Environmental Sr	ases which may endanger ould their operations have or the environment. In
OCD Only Received by: Jocelyn Har	imon	Date:	05/2	26/2023	

Received by OCD: 5/25/2023 3:01:16 PM Form C-141 State of New Mexico

Incident ID	nMCS0124838636
District RP	
Facility ID	
Application ID	

Remediation Plan

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

X Detailed description of proposed remediation technique

X Scaled sitemap with GPS coordinates showing delineation points

x Estimated volume of material to be remediated

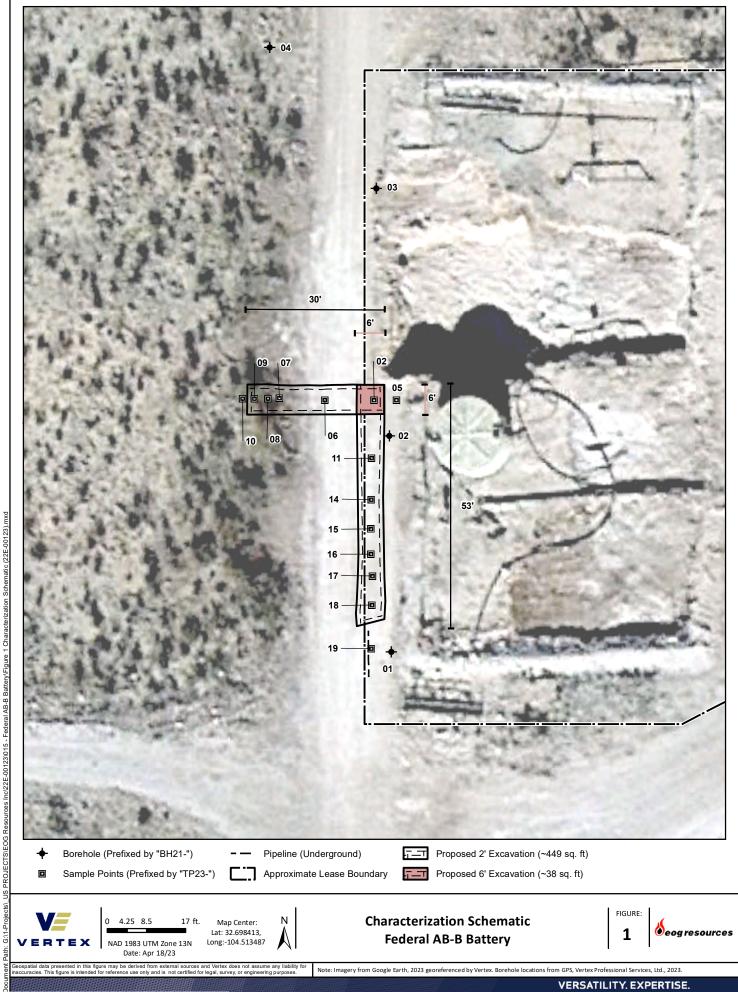
Page 5

X Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

X Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around pr deconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local li	certain release notifications and perform corrective actions for releases nee of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Chase Settle	Title: _ Rep Safety & Environmental Sr
Printed Name:Chase Settle Signature:Chase Settle	Date: 05/25/2023
email:Chase_Settle@eogresources.com	Telephone:575-748-1471
OCD Only	
Received by: Jocelyn Harimon	Date:05/26/2023
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature: Ashley Maxwell	Date: 5/30/2023

ATTACHMENT 1



Released to Imaging: 5/30/2023 9:08:41 AM

ATTACHMENT 3

Client Name: EOG Resources Site Name: Federal AB-B Battery NMOCD Tracking #: nMCS0124838636 Project #: 22E-00123-15 Lab Report(sX): 2303966, 2303A35, 2303966, 2303A35, 2111431

	Table	2. Initial Charact	erization S	ample Fie	Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs					gs			
5	Sample Descrip	otion	Fie	eld Screeni	ng			Petrole	eum Hydro	carbons			
			ds			Vola	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	전 Volatile Organic Compounds ③ (PID)	Extractable Organic 3 Compounds (PetroFlag)	() () () () () () () () () () () () () (eue Beuzueg (mg/kg)) (mg/sd/ (g)	ଞ୍ଚି Gasoline Range Organics % (GRO)	ୁ Diesel Range Organics () (DRO)	() Motor Oil Range Organics (MRO)	(OXO + OXO) (mg/kg)	କ୍ଷି Total Petroleum କ୍ଷି Hydrocarbons (TPH)	w) Chloride Concentration (88)
BH21-01	1	11/05/2021	0	494	243	ND	ND	ND	20	78	20	98	67
BH21-02	1	11/05/2021	0	6,930	1,694	ND	ND	ND	920	1200	920	2120	1100
BH21-02	1.5	11/05/2021	0	678	1,987	ND	ND	ND	120	180	120	300	1300
TP23-02	2	03/16/2023	-	-	1,350	-	-	-	-	-	-	-	-
TP23-02	4	03/16/2023	-	-	1,453	-	-	-	-	-	-	-	-
TP23-02	6	03/16/2023	-	30	538	ND	ND	ND	ND	ND	ND	ND	510
BH21-03	1	11/05/2021	0	21	971	ND	ND	ND	ND	ND	ND	ND	440
BH21-03	1.75	11/05/2021	0	31	855	ND	ND	ND	ND	ND	ND	ND	440
BH21-04	1	11/05/2021	0	36	99	ND	ND	ND	ND	ND	ND	ND	ND
TP23-05	0	03/16/2023	-	92	510	ND	ND	ND	ND	ND	ND	ND	360
TP23-05	2	03/16/2023	-	15	398	ND	ND	ND	ND	ND	ND	ND	400
TP23-06	0	03/16/2023	-	-	1,530	-	-	-	-	-	-	-	-
TP23-06	2	03/16/2023	-	-	1,240	-	-	-	-	-	-	-	-
TP23-07	0	03/16/2023	-	1,072	150	-	-	-	-	-	-	-	-
TP23-07	2	03/16/2023	-	86	188	-	-	-	-	-	-	-	-
TP23-08	0	03/16/2023	-	2,000	140	-	-	-	-	-	-	-	-
TP23-08	2	03/16/2023	-	263	113	-	-	-	-	-	-	-	-
TP23-09	0	03/16/2023	-	1,175	63	-	-	-	-	-	-	-	-
TP23-09	2	03/16/2023	-	65	80	-	-	-	-	-	-	-	-
TP23-10	0	03/16/2023	-	77	35	ND	ND	ND	ND	ND	ND	ND	ND
TP23-10	2	03/16/2023	-	25	63	ND	ND	ND	ND	ND	ND	ND	ND
TP23-11	0	03/16/2023	-	599	220	-	-	-	-	-	-	-	-
TP23-11	2	03/16/2023	-	126	330	-	-	-	-	-	-	-	-
TP23-14	0	03/17/2023	-	2,000	565	-	-	-	-	-	-	-	-
TP23-14	2	03/17/2023	-	1,147	548	-	-	-	-	-	-	-	-
TP23-15	0	03/17/2023	-	-	828	-	-	-	-	-	-	-	-
TP23-15	2	03/17/2023	-	-	1,128	-	-	-	-	-	-	-	-
TP23-16	0	03/17/2023	-	464	308	-	-	-	-	-	-	-	-
TP23-16	2	03/17/2023	-	87	330	-	-	-	-	-	-	-	-
TP23-17	0	03/17/2023	-	206	355	-	-	-	-	-	-	-	-
TP23-17	2	03/17/2023	-	83	290	-	-	-	-	-	-	-	-
TP23-18	0	03/17/2023	-	-	1,337	-	-	-	-	-	-	-	-
TP23-18	2	03/17/2023	-	-	493	-	-	-	-	-	-	-	-
TP23-19	0	03/17/2023	-	423	185	-	-	-	-	-	-	-	-

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



ATTACHMENT 4



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

August 31, 2022

Bradford Billings EMNRD 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Federal AB-B Battery 30-015-23643 M-32-18S-25E Eddy County, NM nMCS0124838636

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site which currently has an open incident on the NMOCD E-Permitting website. The report is being submitted in reference to the C-141 Final dated and submitted August 17, 2001. EOG Resources, Inc. has included a C-141 Closure on the most current form within this Closure Report, and hereby requests closure of the open incident.

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

Respectfully,

Chase Settle

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



August 31, 2022

Federal AB-B Battery

eog resources

Closure Report

30-015-23643

M-32-18S-25E

Eddy County, NM

August 31, 2022

nMCS0124838636

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Federal AB Closure Rej #nMCS012	port	August 31,	2022
I.	Table of Contents	1	
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111.	Scope of Work Completed	1	
IV.	Closure Request	2	
Table Table Apper	es 1: Comprehensive Site Map 1: Comprehensive Analytical Table adices: dix A: Current C-141 Closure		
	dix B: Original C-141 Final dix C: Internal YPC Spill Report/Photos		
Appen Appen Appen	dix D: 2019 Remediation Photos dix E: 2019 Remediation Closure Report dix F: 2021 Laboratory Analytical Report dix G: 2021 Vertex Field Notes		



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I. Location

The site is located in Eddy County, New Mexico approximately 8.6 miles southwest of Atoka.

II. Background

On August 16, 2001, Yates Petroleum Corporation (YPC) had a release of 10 barrels of BS & W and produced water mix at the Federal AB-B Battery when a lightning strike occurred, causing a fiberglass gun-barrel and a fiberglass storage tank to become engulfed in flames. Local fire authorities responded to extinguish the fire, which unavoidably spread ash, fire debris, and some remaining produced fluids across the facility and pad. Areas impacted included a four (4) foot wide by fifty (50) foot long area adjacent to the west side of the battery along the lease road, approximately thirty (30) feet by fifty (50) feet on the east side of the pad, and areas around the facility equipment. Pictures included in Appendix C demonstrate the extent of the impacts created by the fire and activities in extinguishing the fire.

Once the fire was extinguished, according to the C-141 Final (Appendix B) submitted August 17, 2001, the fire debris and residue was to be excavated/removed from location with any remaining water residue disced into the site for in situ treatment.

III. Scope of Work Completed

During divestiture activities in early 2021, it was discovered through a search of the NMOCD E-Permitting system that this open Incident existed for this site. EOG Resources, Inc. (EOG) could not locate the C-141 or any further documentation through the NMOCD system but were fortunate in finding the original release documents within our internal filing system. EOG realized almost immediately that a large portion of the impacted area had overlapped with a recent remediation that had concluded in early 2020.

In 2019, EOG began remediation at the site for a 20 barrel release when high winds caused a pvc water leg to break on a 3-Phase Vertical Separator. Initial pictures of the release area indicated impacts were isolated to the east of the separator before flowing south remaining entirely within the battery berm. These initial pictures, as well as final excavation pictures are included as Appendix D. Through the course of the initial assessment, it became obvious that some historical impacts were being encountered, which increased the footprint of the remediation area far beyond the area impacted by the recent release. Note that with the release occurring in 2019, the current Spill Rule (NMAC 19.15.29) was in effect, so the remediation limits had become more stringent than they were in the early 2000's. During the remediation of the 2019 release, the site was excavated until confirmation samples indicated Table 1 thresholds had been achieved, then a Closure Report was submitted to NMOCD for review, with approval coming May 28, 2020. A Comprehensive Site Map and the 2019 Closure Report are included with this report as Figure 1 and Appendix E to provide illustration and detail of the overlap involved with the release areas, as well as the remediation efforts completed in 2019 which address both areas. Note that the 2001 impacted area depicted on the Figure 1 Comprehensive Site Map is approximate, and based on the initial pictures included with the report in Appendix C.

EOG also retained Vertex to perform assessment samples along the lease road to determine if impacts from that area appeared to have been addressed appropriately during the initial activities in 2001. Vertex mobilized to the site on November 5, 2021, to collect samples at 4 discrete sample points within areas believed to have been impacted during the 2001 incident. BH21-01 through BH21-04 were spread out on the west side of the battery in an area which the initial photos appear to show had been impacted, which had not been addressed by the remediation activities completed for the 2019 release. The points are depicted on the Figure 1 map. Samples were collected for laboratory analysis following NMOCD soil sampling procedures, then submitted to Hall Environmental Analysis Laboratory under strict chain-of-custody (COC) protocols for



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analyzation of BTEX (EPA Method 8021B), TPH (EPA Method 8015D) and chloride (EPA Method 300.0). Notes of the Vertex activities are included as Appendix G.

Once analytical data (Appendix F) returned from the laboratory, a review was conducted to determine if the results fell within the Recommended Remediation Action Levels (RRAL) according to the *New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases,* dated August 13, 1993, as these were the operating standards for that time period. Based on the results, provided in Table 1 Comprehensive Analytical Table, it demonstrates that the release was address appropriately for era, as all BTEX and TPH results are below the RRAL listed in the 1993 Guidelines provided by NMOCD. There is one sample that displays chloride concentrations above the thresholds of the current Spill Rule (NMAC 19.15.29), however prior to 2018 chloride did not have a RRAL, and during this time period, early 2000's, there are a number of instances of sites receiving approved closure with concentrations well above the current results by thousands of parts per million. Since the sample results indicated that remediation was completed appropriately for the time, and that the soil still adheres to the RRALs which were in effect based on the NMOCD Guidelines distributed in 1993, no further work was completed for this small portion of road area.

IV. Closure Request

This release, remediation work, and original C-141 Final submission occurred prior to the passage of the current Spill Rule (NMAC 19.15.29), and therefore must be reviewed by the standards required during the time period in which that release was initially addressed. With the available site remediation information, the area addressed by the 2019 remediation activities and the current 2021 soil analytical results indicating the road portion to be within the RRALs from that time period, EOG Resources, Inc. believes enough evidence exists to substantiate that remedial activities were completed appropriately for this site, and requests Closure of nMCS0124838636. The current C-141 Closure Form is included with this Closure Report as Appendix A.



August 31, 2022

Figure

Comprehensive Site Map





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Table

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Comprehensive Analytical Table

Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT DRO	Total TPH	Chlorides
BH21-01- 1'	1	11/05/21	ND	ND	ND	ND	ND	ND	20	78	98	67
BH21-02- 1'	1	11/05/21	ND	ND	ND	ND	ND	ND	920	1200	2120	1100
BH21-02- 1.5'	1.5	11/05/21	ND	ND	ND	ND	ND	ND	120	180	300	1300
BH21-03- 1'	1	11/05/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	440
BH21-03- 1.75'	1.75	11/05/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	440
BH21-04- 1'	1	11/05/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
V1C-3.5'	3.5'	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	32
V1C-3.5 V2C-3.5'	3.5 <u>3.5'</u>	<u>11/14/19</u>	<0.050 <0.050	<0.050 <0.050	0.060	0.150	<0.300	60.8	7360	1740	9160.8	96
V2C-4'	<u></u>	12/12/19	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1500	572	2072	144
V2C-4.5'	4.5'	01/09/20	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	736
V3C-2'		11/14/19	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	524	177	701	128
V4C-1.5	1.5'	11/14/19	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	277	127	404	448
V5C-2.5'	2.5'	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	22.6	<10.0	22.6	432
V6C-2.5'	2.5'	11/14/19	<0.100	1.28	3.19	9.88	14.3	253	1660	239	2152	720
V6C-3'	3'	12/12/19	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	197	176	373	336
V7C-7.5'	7.5'	11/14/19	9.83	93.1	85.0	192	379	4440	16200	2270	22910	80
V7C-9'	9'	12/12/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	416
V8C-7.5'	7.5'	11/14/19	<0.100	1.01	<u>3.21</u>	8.3 4	12.6	146	1190	167	1503	48
V8C-9'	9'	12/12/19	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	15.2	<10.0	15.2	576
H1	0-7.5	11/14/19	<0.050	<0.050	0.089	0.290	0.379	13.1	1250	298	1561.1	4 80
H1-2	0-9	12/12/19	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	560
H2	0-7.5	11/14/19	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.2	<10.0	10.2	224
H3	0-3.5	11/14/19	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	965	384	1349	720
H3-2	0-4	12/12/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	432
H4	0-1.5	11/14/19	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	149	74.8	223.8	1170
H4-2	0-1.5	12/12/19	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	32
H5	0-2.5	11/14/19	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	98.8	50.9	149.7	448
H6	0-2.5	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	150	36.9	186.9	384
H7 H7-2	0-2.5 0-2.5	11/14/19 12/12/19	< <u>0.050</u> <0.050	< <u>0.050</u> <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	<10.0 <10.0	4 <u>32</u> <10.0	341 <10.0	773 <10.0	736 80
H7-2 H8	0-2.5	11/14/19	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	104	47.8	151.8	192
<u>но</u> Н9	0-2 0-3.5	<u>11/14/19</u>	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300	<10.0 <10.0	664	47.0 372	101.6 1036	624
H9-2	0-3.5	<u>11/14/19</u> <u>12/12/19</u>	<0.050 <0.050	<0.050 <0.050	<0.050	<0.150 <0.150	<0.300	<10.0 <10.0	<10.0	372 <10.0	< <u>10.0</u>	656
H9-3	0-4.5	01/09/20	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	528
H10	0-4.5	11/14/19	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	123	40.2	163.2	112



August 31, 2022



District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

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Incident ID	nMCS0124838636
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377				
Contact Name Chase Settle	Contact Telephone 575-748-1471				
Contact email Chase_Settle@eogresources.com	Incident # (assigned by OCD) nMCS0124838636				
Contact mailing address 104 S. 4th Street, Artesia, NM 88210					

Location of Release Source

Latitude 32.69833

Longitude -104.51331 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Federal AB-B Battery	Site Type Battery
Date Release Discovered 08/16/2001	API# (if applicable) 30-015-23643

Unit Le	etter	Section	Township	Range	County
М		32	18S	25E	Eddy

Surface Owner: State Federal Tribal Private (Name: 4-Dinkus Ranch

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
BS&W & Produced Water Mix	10 Bbls	0 bbls
Cause of Release Please	e refer to the original C-141 for details of r	nMCS0124838636.

<i>eived by OCD: 5/25/202</i> m C-141	23 3:01:16 PM State of New Mexico		Page 26 0	
	Oil Conservation Division	Incident ID	nMCS0124838636	
e 2	On Conservation Division	District RP		
		Facility ID		
		Application ID		
Was this a major	If YES, for what reason(s) does the responsible party	v consider this a major release	?	
release as defined by 19.15.29.7(A) NMAC?	Due to the lightning causing a fire, the re			
🗹 Yes 🗌 No				
fVES was immediate n	otice given to the OCD? By whom? To whom? Whe	n and hy what means (nhone	email etc)?	
	ns to Van Barton- OCD and Jim Amos- B			
· · · , · · , · · · · · · · · ·				
	Initial Response	•		
The responsible	party must undertake the following actions immediately unless they	could create a safety hazard that wo	ıld result in injury	
The source of the rel	eace has been stonned			
	as been secured to protect human health and the environ	nmont		
-	ave been contained via the use of berms or dikes, absor		ant dervices	
		•	ent devices.	
\checkmark All free liquids and r	ecoverable materials have been removed and managed	appropriately.		
If all the actions describe	d above have not been undertaken, explain why:			
If all the actions describe	d above have <u>not</u> been undertaken, explain why:			
If all the actions describe	d above have <u>not</u> been undertaken, explain why:			
If all the actions describe	d above have <u>not</u> been undertaken, explain why:			
If all the actions describe	d above have <u>not</u> been undertaken, explain why:			
If all the actions describe	d above have <u>not</u> been undertaken, explain why:			
If all the actions describe	d above have <u>not</u> been undertaken, explain why:			
Per 19.15.29.8 B. (4) NN	IAC the responsible party may commence remediation a narrative of actions to date. If remedial efforts hav			

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

Printed Name:	Chase	Settle
r milleu maille.	Chase	Selle

Signature: Chase Settle _____

Title:	Rep Safety & Environmental Sr

email: Chase_Settle@eogresources.com

Telephone: 575-748-1471

Date: 08/31/2022

OCD Only

Received by: _____

Date:

Page 6

Incident ID	nMCS0124838636
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr
Signature: <u>Chase Settle</u>	Date: 08/31/2022
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



August 31, 2022

Appendix B Original C-141 Final

District I	
1625 N. French Dr., Hobbs, NM 88240	
District II	
811 South First, Artesia, NM 88210	
District III	
1000 Rio Brazos Road, Aztec, NM 87410	
District IV	
2040 South Pacheco, Santa Fe, NM 87505	

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State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OP	ERATOR	Initial Report	X Final Report
Name of Company Yates Petroleum Corporation	n C	Contact Jerry Fanning, Jr.	
Address 105 South Fourth Street Artesia, NM	I 88210 To	Telephone No. (505) 748-1471	
Facility Name FEDERAL AB -B BATTERY	Fa	Facility Type Tank Battery	
Surface Owner N	fineral Owner F	Federal Lease No.	NM0487738

LOCATION OF RELEASE

					a or i or and de				
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
0	32	185	25E					Eddy	

NATURE O	T KELEADE				
Type of Release BS &W / Produced Water	Volume of Release 10 BBL WATER	Volume Recovered 0 BO 0 BW			
Source of Release Tanks	Date and Hour of Occurance 8-16-01, 14:00	Date and Hour of Discovery 8-16-01, 14:00			
Was Immediate Notice Given?	If YES, To Whom? Van Barton-OCD Artesia, Jim An	nos-BLM Carlsbad			
By Whom? Darrel Atkins	Date and Hour				
Was a Watercourse Reached?	8-17-01, 14:30 If YES, Volume Impacting the Watercourse.				
If a Watercourse was Impacted, Describe Fully.*					
Lightning struck and burned tank battery. Area secured to insure saf responded. Fire controlled and extinguished .	ety of personnel and public. Atoka v	olunteer fire department			
Describe Area Affected and Cleanup Action Taken.* Area affected included lease road on the west side of tank battery and road. This area had a thin surface layer and spray of BS & W which came f departments efforts covered an area approximately 30 feet x 50 feet residue contained on location.	rom the burned gun barrel. Water a along and just outside the east fence	and residue as a result of the fire e around the battery . All of this			
Describe Area Affected and Cleanup Action Taken.* Area affected included lease road on the west side of tank battery and road. This area had a thin surface layer and spray of BS & W which came f departments efforts covered an area approximately 30 feet x 50 feet	rom the burned gun barrel. Water a along and just outside the east fence ater residue will be disced and treated he best of my knowledge and understant ase notifications and perform corrective port by the NMOCD marked as "Final and remediate contamination that pose a	and residue as a result of the fire e around the battery. All of this d on location. ad that pursuant to NMOCD rules e actions for releases which may Report" does not relieve the opera threat to ground water, surface			
Describe Area Affected and Cleanup Action Taken.* Area affected included lease road on the west side of tank battery and road. This area had a thin surface layer and spray of BS & W which came f departments efforts covered an area approximately 30 feet x 50 feet residue contained on location. Fire debris and residue will be removed from location. Remaining wa I hereby certify that the information given above is true and complete to th and regulations all operators are required to report and/or file certain releat endanger public health or the environment. The acceptance of a C-141 re of liability should their operations have failed to adequately investigate ar water, human health or the environment. In addition, NMOCD acceptance	rom the burned gun barrel. Water a along and just outside the east fence ater residue will be disced and treated the best of my knowledge and understant ase notifications and perform corrective port by the NMOCD marked as "Final and remediate contamination that pose a see of a C-141 report does not relieve th OIL CONSERVA	and residue as a result of the fire e around the battery . All of this d on location. ad that pursuant to NMOCD rules e actions for releases which may Report" does not relieve the opera threat to ground water, surface			
Describe Area Affected and Cleanup Action Taken.* Area affected included lease road on the west side of tank battery and road. This area had a thin surface layer and spray of BS & W which came f departments efforts covered an area approximately 30 feet x 50 feet residue contained on location. Fire debris and residue will be removed from location. Remaining wa I hereby certify that the information given above is true and complete to th and regulations all operators are required to report and/or file certain releat endanger public health or the environment. The acceptance of a C-141 re of liability should their operations have failed to adequately investigate ar water, human health or the environment. In addition, NMOCD acceptance compliance with any other federal, state, or local laws and/or regulations.	rom the burned gun barrel. Water a along and just outside the east fence ater residue will be disced and treated the best of my knowledge and understant as notifications and perform corrective port by the NMOCD marked as "Final and remediate contamination that pose a se of a C-141 report does not relieve th	and residue as a result of the fire e around the battery . All of this d on location. and that pursuant to NMOCD rules e actions for releases which may Report" does not relieve the opera threat to ground water, surface e operator of responsibility for			
Describe Area Affected and Cleanup Action Taken.* Area affected included lease road on the west side of tank battery and road. This area had a thin surface layer and spray of BS & W which came f departments efforts covered an area approximately 30 feet x 50 feet residue contained on location. Fire debris and residue will be removed from location. Remaining wa I hereby certify that the information given above is true and complete to th and regulations all operators are required to report and/or file certain releat endanger public health or the environment. The acceptance of a C-141 re of liability should their operations have failed to adequately investigate ar water, human health or the environment. In addition, NMOCD acceptance compliance with any other federal, state, or local laws and/or regulations.	rom the burned gun barrel. Water a along and just outside the east fence ater residue will be disced and treated the best of my knowledge and understant ase notifications and perform corrective port by the NMOCD marked as "Final and remediate contamination that pose a see of a C-141 report does not relieve th OIL CONSERVA	and residue as a result of the fire e around the battery . All of this d on location. and that pursuant to NMOCD rules e actions for releases which may Report" does not relieve the opera threat to ground water, surface e operator of responsibility for			

New Mexico Office of the State Engineer

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Township: 185	Range: 25E	Sections: 31,32,33		
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County: Ba	sin:	Num	ber: Si	uffix:
Owner Name: (First)	(I.		OV D	
Owner Name. (First)	(La	ast)]	Non-Domest	tic O Domestic
	e Data Report	@ All	oth to Water Repo	
	e Data Report	@ All		

Bsn	Tws	Rng	Sec	Zone	x	Y	Wells	(Depth Min	Water Max	Feet) Avg
RA	185	25E	32				1	300	300	300

Record Count: 1

08/17/01	14:19 3505 748 4585	YATES PET ENG	國 00
		\cap	
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	CONNECTION ID		
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	USAGE TIME	01'57	
	PAGES	2	
	RESULT	ОК	

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YATES PETROLEUM CORPORATION

105 S. 4th Street Artesia, NM 88210

32 of 163

DATE: 8-17-01 FAX NUMBER OF PAGES INCLUDING COVER SHEET: TO: Jim Amos Coulshad -FROM: JEBRY ANNING JE VIRONMEN NiciAN 5909 PHONE: PHONE: 3 FAX: FAX: CC: **REMARKS**: Urgent □ Reply ASAP □ For Your Review Please Comment nue antice find repe Received by Released to

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	***	**************************************	
	TRANSMISSION OK		
	TX/RX NO.	8444	
	CONNECTION TEL	97489720	
	CONNECTION ID		
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	USAGE TIME	03'07	
	PAGES	2	
	RESULT	ОК	

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YATES PETROLEUM CORPORATION

105 S. 4th Street Artesia, NM 88210

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Received by

8-17-01 DATE: FAX NUMBER OF PAGES INCLUDING COVER SHEET: Mike Stubble field TO: FROM: TANNING JR, JERRY ATESIA OCD ETROLEUM Corp. NVIAONMENTAL Field Tech NiciAN NM 17 50 PHONE: PHONE: 4195 -4654 FAX: 9 MU 12 8 FAX: 505-CC: REMARKS: Urgent □ For Your Review □ Reply ASAP Please Comment 2ent Ains

Released to Intraging: 53602025 9208241 AM





August 31, 2022

Appendix C Internal YPC Spill Report/Photos



BREAKS, SPILLS AND LEAKS REPORT

Released to Imaging: 5/30/2023 9:08:41 AM

Name of well or facility:FF0^AB''ABB''ABB''AVK TBA HERY Location:Sw Sw Section 32 Township [65 Range 256 County:FDY	PERSON REPORTING DARRELL RON JIM AMOS -BUN VAN BARTON - OCD
Location: $SW SV$ Section $S2$ Township KS Range $2SE$ County: $FDDY$ Surface owner: Mineral owner: Fee Federal State 2. TIME OF INCIDENT: Mineral owner: Fee Federal State 2. TIME OF INCIDENT: Time: 2:01 and fpm Time Reported: 2:50 and pm Supervisor's Name (Person Incident was Report to) Supervisor's Name (Person Incident was Report to) 3. SOURCE AND CAUSE: LIGHTNING 4. TYPE OF DISCHARGE: Supervisor's Name (Person Incident Was Report to) 3. SOURCE AND CAUSE: LIGHTNING 4. TYPE OF DISCHARGE: Supervisor's Name (Person Incident Was Report to) 5. QUANTITY: Estimated Volumes Discharged: Barrels of Oil M Barrels of Water Barrels of M	1. LOCATION:
Surface owner:	Name of well or facility: FED "AB" ABB" TANK BA MERY
2. TIME OF INCIDENT: Date:	Location:, SW SW Section 32 Township 185 Range 258 County: FDDV
Date: $\frac{1}{2}$ Time: $\frac{1}{2}$ $\frac{1}{2}$ Time: $\frac{1}{2}$ $\frac{1}{2$	Surface owner: Mineral owner: Fee Federal State
Supervisor's Name (Person Incident was Report to) 3. SOURCE AND CAUSE: LIGHTNING 4. TYPE OF DISCHARGE: Crude Oil Crude Oil Condensate Produced Water Gas Other S. QUANTITY: Estimated Volumes Discharged: Barrels of Oil Barrels of MCF Gas Estimated Volumes Recovered: O Barrels of Oil Barrels of So STE CHARACTERISTICS: Weather Conditions: Soil Type and Condition: CALLAR Miscellaneous: 7. IMMEDIATE CORRECTIVE ACTION:	2. TIME OF INCIDENT:
Supervisor's Name (Person Incident was Report to) 3. SOURCE AND CAUSE: LIGHTNING 4. TYPE OF DISCHARGE: Crude Oil Crude Oil Condensate Produced Water Gas Other S. QUANTITY: Estimated Volumes Discharged: Barrels of Oil Barrels of MCF Gas Estimated Volumes Recovered: O Barrels of Oil Barrels of So STE CHARACTERISTICS: Weather Conditions: Soil Type and Condition: CALLAR Miscellaneous: 7. IMMEDIATE CORRECTIVE ACTION:	Date: 8/16/01 Time: 2:00 am/pm Time Reported: 2:30 am/pm
4. TYPE OF DISCHARGE: \Box Crude Oil \Box Condensate \Box Produced Water \Box Gas \Box Other \Box S 4 W \Box \Box Gas \Box Barrels of Oil \Box Barrels of Water \Box Barrels of \Box Barrels of Oil \Box Barrels of Water \Box Barrels of U \Box Barrels of Water \Box Barrels of \Box Barrels of \Box Barrels of \Box Barrels of Water \Box Barrels of U \Box Barrels of Water \Box Barrels of \Box	
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5. QUANTITY: Estimated Volumes Discharged:Barrels of OilBarrels of Water MCF Gas Estimated Volumes Recovered:Barrels of OilBarrels of Water Barrels ofBarrels of Water Barrels of	4. TYPE OF DISCHARGE:
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Secondary Containment type and condition: Miscellaneous: 7. IMMEDIATE CORRECTIVE ACTION:	Distance and Direction to fresh water wells or watercourse:
7. IMMEDIATE CORRECTIVE ACTION:	
7. IMMEDIATE CORRECTIVE ACTION: Action and time taken to control incident: <u>Fire department responded</u> <u>4</u> <u>EXTINGUISHED</u> <u>EIRE</u>	Miscellaneous:
Action and time taken to control incident: <u>FIRE DEPARTMENT RESPONDED</u> <u>EXTINGUISHED</u> EIRE	7. IMMEDIATE CORRECTIVE ACTION:
EXTINGUISHED FIRE	Action and time taken to control incident:
	EXTINGUISHED FIRE

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environ/spilform.doc page 1

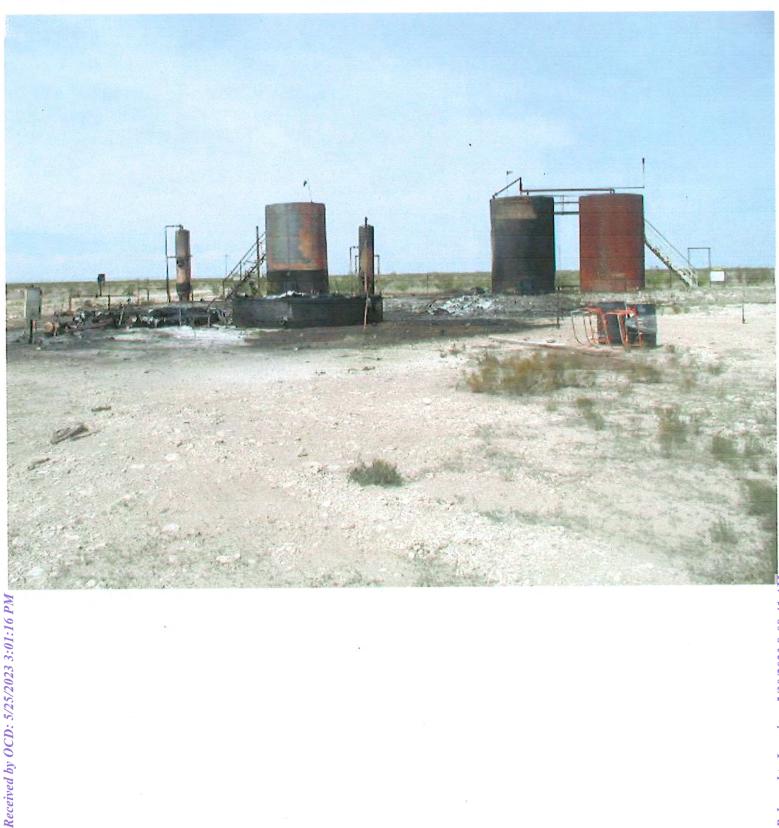
BREAKS, SPILLS AND LEAKS REPORT

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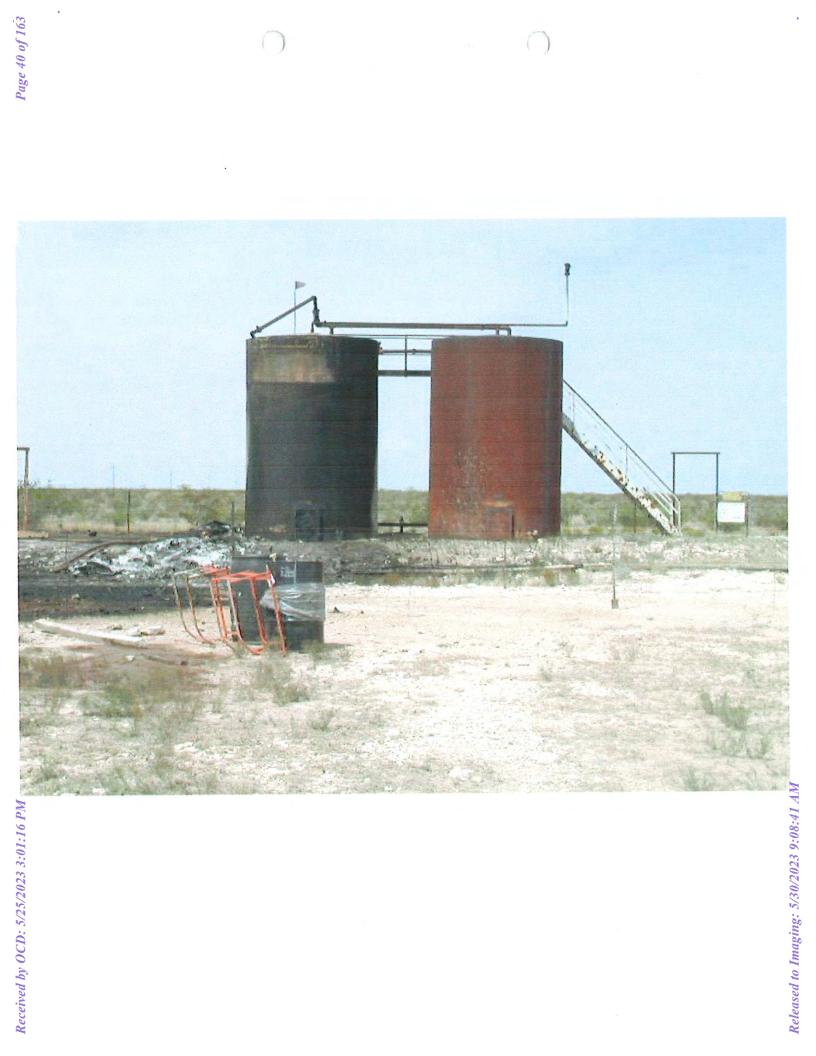
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Federal AB-B Battery Closure Report #nMCS0124838636



August 31, 2022

Appendix D 2019 Remediation Photos

2019 Release Images

Initial Images



Excavation Images









Federal AB-B Battery Closure Report #nMCS0124838636



August 31, 2022

Appendix E 2019 Remediation Closure Report

Hamlet, Robert, EMNRD

From:	Hamlet, Robert, EMNRD
Sent:	Thursday, May 28, 2020 1:45 PM
То:	Katie Jamison
Cc:	Bratcher, Mike, EMNRD; Venegas, Victoria, EMNRD; Eads, Cristina, EMNRD; CFO_Spill, BLM_NM
Subject:	Closure Approval - EOG - Federal AB B Battery - (Incident #NRM1932255004) (2RP-5701)
Attachments:	Closure Approval - EOG - Federal AB B Battery.pdf

Katie,

We have received your closure report and final C-141 for Incident #NRM1932255004 Federal AB B Battery, thank you. This closure is approved.

Please let me know if you have any further questions.

Regards,

Robert J Hamlet State of New Mexico Energy, Minerals, and Natural Resources Oil Conservation Division 811 S. First St., Artesia NM 88210 (575) 748-1283 Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

eog resources

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

January 17, 2020

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

Re: Federal AB B Battery M-32-18S-25E Eddy County, NM 2RP-5701

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The report is being submitted accompanying the C-141 Final.

EOG Resources Inc. requests closure.

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

Respectfully,

Chan Settle

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

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January 17, 2020

EOG Resources, Inc.

Federal AB B Battery

Closure Report

M-32-18S-25E

Eddy County, NM

January 17, 2020

2RP-5701

energy opportunity growth

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January 17, 2020

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V.	Soils	2
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Tables:

Table 1: Soil Analytical Data

Figures:

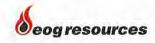
Figure 1: Site Map with Sample Points

Photos

Appendices:

- Appendix A: Depth to Groundwater Information
- Appendix B: NRCS Soil Classification
- Appendix C: 100 Year Floodplain Map
- Appendix D: Laboratory Soil Data

Appendix E: Form C-141



1. Location

From the intersection of Hwy 285 and West Kincaid Ranch Road (CR 38), head west for 8 miles, then take the lease road north and follow main lease road for 2,870 feet to the location.

H. Background

On October 18, 2019, EOG Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 1 B/CO and 19 B/PW with 1 B/CO recovered, which occurred on October 11, 2019. This release was caused by high winds breaking the water leg on a 40 barrel capacity 3-Phase Vertical Separator. A vacuum truck was called to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils. Excavated soils were sent to a NMOCD approved disposal facility during the initial excavation activities. Initial soil sampling was conducted October 17, 2019, after providing notice of sampling to NMOCD and BLM on October 14, 2019. Based on sample results from the third party laboratory used for analysis, further excavation of the site was undertaken on November 14, 2019, with notification provided to NMOCD and BLM on November 12, 2019. Following this sampling event, the excavation depth and size was again increased based on the laboratory results. Sampling again occurred on December 12, 2019, with notification provided to NMOCD and BLM on December 9, 2019. Further excavation work was completed based on the results of the December 12, 2019, sampling activities. On January 7, 2020, notification of sampling was provided to NMOCD and BLM for January 9, 2020. Also on January 7, 2020, EOG requested an extension from NMOCD for the Closure Report, which was approved the same day. All soil samples were sent to a third party laboratory for analysis and laboratory reports are included as Appendix D.

III. Surface and Ground Water

Area geology is Cenozoic Quaternary. Based on information from the New Mexico Office of the State Engineer, there wasn't sufficient data from the United States Geological Survey National Water Information System (USGS), regarding this location (Section 32, T18S-R25E), depth to aroundwater was determined to be 303 feet with the nearest water wells being approximately 0.85 mile to the north and 0.77 mile to the southeast. The site sits between the 2 water well sites, with the north well having a groundwater depth of 300 feet. The southeast well has a groundwater depth of 305 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 Brantley Lake at approximately 9.5 miles away. The site is located outside of critical karst areas and outside of the 100-year floodplain.

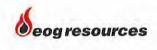
IV. NMOCD Assessment Criteria

The site assessment criteria is as follows:

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

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

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



V. Soils

USDA Natural Resources Conservation Service (NRCS) classifies soil in the area as Upton-Reagan, with 0-9% slopes.

VII. Remediation Work

Initial excavation of the site began on October 11, 2019. Activities included the removal of saturated and visibly impacted soils with those soils being hauled to a NMOCD approved disposal facility. The site was excavated to a depth of two (2) to three (3) feet with initial horizontal edges also determined by the initial excavation. Vertical delineation sampling was then conducted within the release area, which provided further vertical excavation guidance, including the removal of the production tanks and equipment within the battery once staining was discovered re-emerging from below the tanks between excavation activities. Confirmation vertical and horizontal sampling was then conducted after those excavation activities were complete. These samples displayed that there was need for more excavation vertically, as well as horizontally. Sample activities conducted December 12, 2019, identified that only 2 areas required further excavation. One horizontal area had not met the guidance of 19.15.29.13 NMAC with a resulting chloride concentration of 656 mg/kg, and one area needed further vertical excavation due to DRO concentration of 1500 mg/kg. The sidewall excavation was extended an additional foot and the vertical area was excavated an additional half foot. The confirmation samples collected on January 9, 2020, confirmed that all vertical sample results had achieved the Table 1 standards, and horizontal sample results confirmed that all sidewalls were within the guidelines for 19.15.29.13. All horizontal samples were collected by way of 5-point composite samples, and no vertical or horizontal samples were representative of more than 200 square feet.

All excavated soils were hauled to an NMOCD approved facility for disposal and the backfill for the site consists of locally sourced, clean, non-contaminated caliche soils of a similar type as was removed. This release occurred within the berm of an active production facility, therefore no revegetation efforts will be undertaken in the remediation of this release.

The C-141 Final is included with this closure report, EOG Resources, Inc. requests closure.

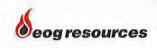


January 17, 2020

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Table 1Soil Analytical Data

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January 17, 2020

Soil Analytical Data

Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT DRO	Total TPH	Chlorides
V1-2'	2'	10/17/19	<2.00	11.5	38.3	90	140	2760	12900	2320	17980	112
V1-3'	3'	10/17/19	<2.00	15.7	43.6	117	176	2750	11800	2170	16720	208
V1-4'	4'	10/17/19	< 0.050	< 0.050	0.057	<0.150	< 0.300	<10.0	10.2	12.4	22.6	352
V1C-3.5'	3.5'	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	32
V2-3'	3'	10/17/19	< 0.500	1.74	8.51	23.9	34.2	1180	14400	5130	20710	1410
V2-4'	4'	10/17/19	< 0.050	< 0.050	<0.050	0.194	< 0.300	96.6	2960	1060	4116.6	128
V3-1'	1'	10/17/19	< 0.050	< 0.050	0.219	1.26	1.48	82.3	3320	685	4087.3	2840
V3-2'	2'	10/17/19	< 0.050	< 0.050	0.544	0.620	1.16	<10.0	398	105	503	240
V3-2.5'	2.5'	10/17/19	< 0.050	< 0.050	0.171	0.340	0.511	29.8	554	165	748.8	48
V4-1'	1'	10/17/19	< 0.500	4.38	10.1	25.1	39.5	746	17900	3510	22156	10800
V4-1.25'	1.25'	10/17/19	< 0.500	< 0.500	9.76	22.9	32.6	609	4060	599	5268	1330
V5-2'	2'	10/17/19	< 0.500	7.97	19.2	41.9	69	933	11600	2060	14593	7360
V5-2.25'	2.25'	10/17/19	< 0.050	< 0.050	0.071	0.173	<0.300	<10.0	27.4	<10.0	27.4	80
V6-2'	2'	10/17/19	9.29	189	158	274	631	3740	10100	1400	15240	5440
V6-2.25'	2.25	10/17/19	0.070	0.962	0.992	1.93	3.96	66.9	488	64.5	619.4	752
V1C-3.5'	3.5'	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
V2C-3.5'	3.5'	11/14/19	< 0.050	< 0.050	0.060	0.165	< 0.300	60.8	7360	1740	9160.8	96
V2C-4'	4'	12/12/19	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	1500	572	2072	144
V2C-4.5'	4.5	01/09/20	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	736
V3C-2'	2'	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	524	177	701	128
V4C-1.5	1.5'	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	277	127	404	448
V5C-2.5'	2,5'	11/14/19	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	22.6	<10.0	22.6	432
V6C-2.5'	2.5'	11/14/19	<0.100	1.28	3.19	9.88	14.3	253	1660	239	2152	720
V6C-3'	3'	12/12/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	197	176	373	336
V7C-7.5'	7.5'	11/14/19	9,83	93.1	85.0	192	379	4440	16200	2270	22910	80
V7C-9'	9'	12/12/19	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
V8C-7.5'	7.5'	11/14/19	<0.100	1.01	3.21	8.34	12.6	146	1190	167	1503	48
V8C-9'	9'	12/12/19	<0.050	<0.050	<0.050	<0.150	<0.300	<10,0	15.2	<10.0	15.2	576
H1	0-7.5	11/14/19	<0.050	< 0.050	0.089	0.290	0.379	13.1	1250	298	1561.1	480
H1-2	0-9	12/12/19	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	560
H2	0-7.5	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	10.2	<10.0	10.2	224
H3	0-3.5	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	965	384	1349	720
H3-2	0-4	12/12/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	432
H4	0-1.5	11/14/19	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	149	74.8	223.8	1170
H4-2	0-1.5	12/12/19	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	32
H5	0-2.5	11/14/19	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	98.8	50.9	149.7	448
H6	0-2.5	11/14/19	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	150	36.9	186.9	384
H7	0-2.5	11/14/19	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	432	341	773	736
H7-2	0-2.5	12/12/19	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	80
H8	0-2	11/14/19	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	104	47.8	151.8	192
H9	0-3.5	11/14/19	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	664	372	1036	624
H9-2	0-4	12/12/19	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	656
H9-3	0-4.5	01/09/20	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	528
iH10	0-7.5	11/14/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	123	40.2	163.2	112



January 17, 2020

Figure 1 Site Map with Sample Points

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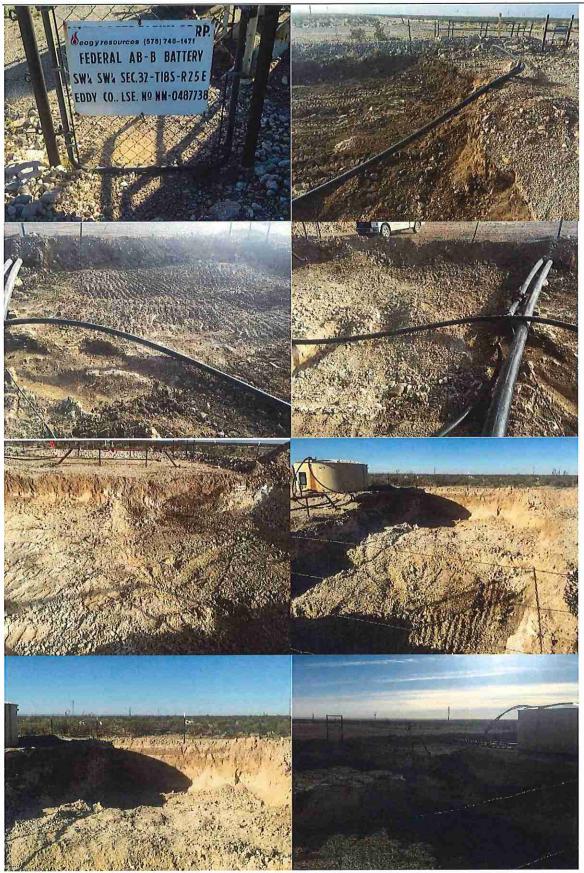
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Photos



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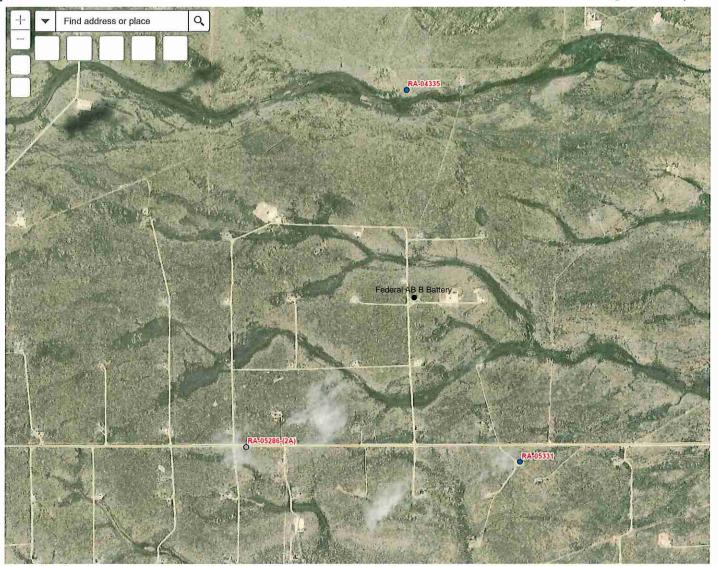


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Appendix A Depth to Groundwater Information

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer	(R=POD has been replaced, O=orphaned,								-					
serves a water right file.)	C=lhe fi closed)	le is		(quarters are 1=NW 2=NE (quarters are smallest to largest)					=SE) IAD83 UTM in I	meters)	(In feet)			
POD Number	Code	POD Sub- basin	County	Q Q Q 64 16 4	1	Tws	Rng	x	Y	Dista	inceDer	othWellDep		Vater olumn
FIA 05331	0.022	RA	ED	114		198	25E	546308	3616955' 🌏		0	460	305	155
									Ave	rage De	pth to W	ater:	305 fe	et
										Mini	imum De	pth:	305 fe	et
									Ma			Maximum Depth:		
Record 1 Count: UTMNAD83 Radio	us Search	(in met	ers):											
Easting (X): 54	6308		North	ing (Y):	3616	955			Radius: 100					
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New Mexico Office of the State Engineer Water Column/Average Depth to Water

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serves a water right file.)	C=the fi closed)	a file is			(quarters are 1=NW 2=NE (quarters are smallest to largest)				4=5E) NAD83 UTM in		(In feet)				
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RA 04335		BA	CH	1	1 3	2 18	S 25E	545580	3619275*		0	400	300	100	
									Ave	erage De	rage Depth to Water:			300 feet	
										Min	imum De	pth:	300 fe	et	
									Maximum Depth:		pth:	300 feet			
Record 1 Count: UTMNAD83 Radio	us Search	(in met	ers):												
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Appendix B NRCS Soil Classification

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Soil Map-Eddy Area, New Mexico
(Federal AB B Battery)

			100 BM 2	The set of			
Area of In	Area of Interest (AOI)		Spoil Area	The soil surveys that comprise your AOI were mapped at 1:20,000.			
-	Alea of Interest (AOI)	0	Stony Spot				
Solls	Soil Map Unit Polygons Soil Map Unit Lines	03	Very Stony Spot	Warning: Soil Map may not be valid at this scale,			
~		\$	Wet Spot	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soi			
Soll Map Unit Points		Δ	Other	line placement. The maps do not show the small areas of			
	Point Features	-	Special Line Features	contrasting soils that could have been shown at a more detaile scale.			
opeciai (0)	Blowout	Water Fea	atures				
N	Borrow Pil	~	Streams and Canals	Please rely on the bar scale on each map sheet for map measurements.			
X	Clay Spot	Transpor		Source of Map: Natural Resources Conservation Service			
0	Closed Depression	+++	Rails	Web Soil Survey URL:			
	Gravel Pit	~	Interstate Highways	Coordinate System: Web Mercator (EPSG:3857)			
*	Gravelly Spot	~	US Routes	Maps from the Web Soil Survey are based on the Web Merca projection, which preserves direction and shape but distorts			
*		and a	Major Roads	distance and area. A projection that preserves area, such as t			
0	Landfill	-	Local Roads	Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.			
٨	Lava Flow	Backgrou		This product is generated from the USDA-NRCS certified date			
de	Marsh or swamp	Chief	Aerial Photography	of the version date(s) listed below.			
索	Mine or Quarry			Soil Survey Area: Eddy Area, New Mexico			
0	Miscellaneous Water			Survey Area Data: Version 15, Sep 15, 2019			
0	Perennial Water			Soil map units are labeled (as space allows) for map scales			
v	Rock Outcrop			1:50,000 or larger.			
+	Saline Spot			Date(s) aerial images were photographed: Nov 30, 2015-D 15, 2017			
22	Sandy Spot			The orthophoto or other base map on which the soil lines were			
-	Severely Eroded Spot			compiled and digitized probably differs from the backgrou			
0	Sinkhole			imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.			
þ	Slide or Slip						
ø	Sodic Spot						



Natural Resources Conservation Service Web Soll Survey National Cooperative Soll Survey 1/16/2020 Page 2 of 3

Map Unit Legend

Totals for Area of Interest		0.4	100.0%
UR	Upton-Reagan complex, 0 to 9 percent slopes	0.4	100.0%
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI

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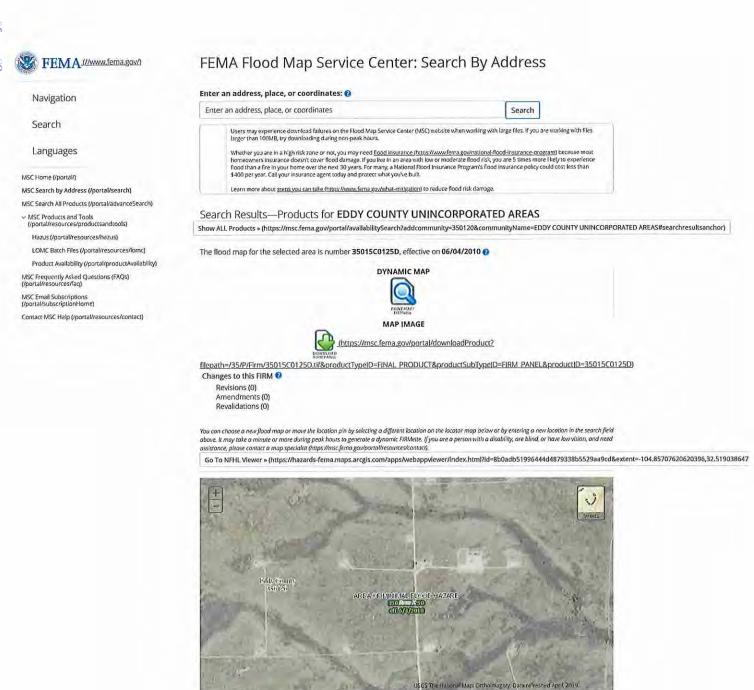
Federal AB B Battery Closure Report 2RP-5701



January 17, 2020

Appendix C 100 Year Floodplain Map

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Without Bass Flood Devetion (BFQ)

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Official website of the Department of Homeland Security

Federal AB B Battery Closure Report 2RP-5701



January 17, 2020

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energy opportunity growth



October 22, 2019

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

RE: FEDERAL AB - B BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab 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.

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,

Celeg D. Keene

Celey D. Keene Lab Director/Quality Manager

Page 1 of 18



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

Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 1 - 2' (H903558-01)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2,00	2.00	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	11.5	2.00	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	38.3	2.00	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	90.0	6.00	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	140	12.0	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.3-12	9						
Chloride, SM4500Cl-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	10/21/2019	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*	2760	50.0	10/18/2019	ND	208	104	200	3.40	
DR0 >C10-C28*	12900	50.0	10/18/2019	ND	200	100	200	4.71	
EXT DRO >C28-C36	2320	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	457 5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	482 9	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 1 - 3' (H903558-02)

BTEX 8021B	mg/l	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	15.7	2.00	10/20/2019	ND	2.09	104	2.00	0,633	
Ethylbenzene*	43.6	2.00	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	117	6.00	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	176	12.0	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 73.3-129	n						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/21/2019	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2750	50.0	10/18/2019	ND	208	104	200	3.40	
DRO >C10-C28*	11800	50.0	10/18/2019	ND	200	100	200	4.71	
EXT DRO >C28-C36	2170	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	448 %	6 41-142							
Surrogate: 1-Chlorooctadecane	443 %	37.6-147							

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Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 1 - 4' (H903558-03)

mg,	/kg	Analyze	d By: BF					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	10/20/2019	ND	2.02	101	2.00	0.404	
<0.050	0,050	10/20/2019	ND	2.09	104	2,00	0.633	
0.057	0.050	10/20/2019	ND	2.02	101	2.00	1.59	
<0.150	0.150	10/20/2019	ND	6.06	101	6.00	1.11	
<0.300	0.300	10/20/2019	ND					
	Result <0.050 <0.050 0.057 <0.150	<0.050 0.050 <0.050 0.050 0.057 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 99.5 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/21/2019	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	10/18/2019	ND	208	104	200	3.40	
DR0 >C10-C28*	10.2	10.0	10/18/2019	ND	200	100	200	4.71	
EXT DRO >C28-C36	12.4	10.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	76.9	% 41-142							
Surrogate: 1-Chlorooctadecane	86.4	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 2 - 3' (H903558-04)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	1.74	0.500	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	8.51	0,500	10/20/2019	ND	2.02	101	2,00	1.59	
Total Xylenes*	23.9	1.50	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	34.2	3.00	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	6 73.3-129	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	1410	16.0	10/21/2019	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*	1180	100	10/18/2019	ND	208	104	200	3.40	
DR0 >C10-C28*	14400	100	10/18/2019	ND	200	100	200	4.71	
EXT DRO >C28-C36	5130	100	10/18/2019	ND					
Surrogate: 1-Chlorooctane	293 %	6 41-142							
Surrogate: 1-Chlorooctadecane	637 %	6 37.6-147	,						

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Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 2 - 4' (H903558-05)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	2.02	101	2.00	0,404	
Toluene*	<0.050	0.050	10/20/2019	ND	2.09	104	2,00	0.633	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	0.194	0.150	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 73.3-12	9						
Chloride, SM4500Cl-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	10/21/2019	ND	432	108	400	0.00	
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*	96,6	10.0	10/19/2019	ND	208	104	200	3.40	
DRO >C10-C28*	2960	10.0	10/19/2019	ND	200	100	200	4.71	
EXT DRO >C28-C36	1060	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	110 \$	% 41-142	21						
Surrogate: 1-Chlorooctadecane	187 9	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 3 - 1' (H903558-06)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	<0.050	0.050	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	0.219	0.050	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	1.26	0.150	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	1.48	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	10/21/2019	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*	82.3	50.0	10/18/2019	ND	208	104	200	3.40	
DR0 >C10-C28*	3320	50.0	10/18/2019	ND	200	100	200	4.71	
EXT DRO >C28-C36	685	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	1419	6 41-142	2						
Surrogate: 1-Chlorooctadecane	222 9	6 37.6-14	7						

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Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 3 - 2' (H903558-07)

BTEX 8021B	mg/	kg	Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	<0.050	0.050	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	0.544	0.050	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	0.620	0.150	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	1.16	0.300	10/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 120 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/21/2019	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	10/18/2019	ND	208	104	200	3.40	
DR0 >C10-C28*	398	10.0	10/18/2019	ND	200	100	200	4.71	
EXT DRO >C28-C36	105	10.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142							
Surrogate: 1-Chlorooctadecane	119	% 37.6-14	7						

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Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 3 - 2.5' (H903558-08)

BTEX 8021B	mg/kg		Analyze	Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	<0.050	0.050	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	0.171	0.050	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	0.340	0.150	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	0,511	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	48.0	16.0	10/21/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS	- 1 ·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	29.8	10.0	10/18/2019	ND	208	104	200	3.40	
DRO >C10-C28*	554	10.0	10/18/2019	ND	200	100	200	4.71	
EXT DRO >C28-C36	165	10.0	10/18/2019	ND					

 Surrogate:
 1-Chlorooctane
 93.2 %
 41-142

 Surrogate:
 1-Chlorooctadecane
 112 %
 37.6-147

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Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 4 - 1' (H903558-09)

BTEX 8021B	mg,	/kg	Analyze	Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	4.38	0.500	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	10.1	0,500	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	25.1	1.50	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	39.5	3.00	10/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 106 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	10/21/2019	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*	746	50.0	10/18/2019	ND	208	104	200	3.40	
DRO >C10-C28*	17900	50,0	10/18/2019	ND	200	100	200	4.71	
EXT DRO >C28-C36	3510	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	292	% 41-142	5						
Surrogate: 1-Chlorooctadecane	686	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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

Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 4 - 1.25' (H903558-10)

BTEX 8021B	mg,	mg/kg		Analyzed By: BF				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	<0.500	0.500	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	9.76	0.500	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	22,9	1.50	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	32.6	3.00	10/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 112 % 73.3-129

212%

37.6-147

Chloride, SM4500CI-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	10/21/2019	ND	432	108	400	0.00		
TPH 8015M	mg/kg		Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	609	50.0	10/19/2019	ND	214	107	200	1.79	QM-07	
DRO >C10-C28*	4060	50.0	10/19/2019	ND	209	104	200	0.107	QM-07	
EXT DRO >C28-C36	599	50.0	10/19/2019	ND						

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 5 - 2' (H903558-11)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	7.97	0.500	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	19.2	0,500	10/20/2019	ND	2.02	101	2,00	1.59	
Total Xylenes*	41.9	1.50	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	69.0	3.00	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	10/21/2019	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*	933	50.0	10/19/2019	ND	214	107	200	1.79	
DR0 >C10-C28*	11600	50.0	10/19/2019	ND	209	104	200	0,107	
EXT DRO >C28-C36	2060	50.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	200	% 41-142	2						
Surrogate: 1-Chlorooctadecane	418	% 37.6-14	17						

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Celey D. Keene, Lab Director/Quality Manager

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

10/17/2019	Sampling Date:	10/17/2019	
10/22/2019	Sampling Type:	Soil	
FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact	
NONE GIVEN	Sample Received By:	Jodi Henson	
FEDERAL AB-B BATTERY			
	10/22/2019 FEDERAL AB - B BATTERY NONE GIVEN	10/22/2019Sampling Type:FEDERAL AB - B BATTERYSampling Condition:NONE GIVENSample Received By:	10/22/2019Sampling Type:SoilFEDERAL AB - B BATTERYSampling Condition:Cool & IntactNONE GIVENSample Received By:Jodi Henson

Sample ID: V 5 - 2.25' (H903558-12)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	<0.050	0.050	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	0.071	0.050	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	0.173	0,150	10/20/2019	ND	6,06	101	6.00	1.11	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-129)						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/21/2019	ND	432	1.08	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	10/19/2019	ND	214	107	200	1.79	
DR0 >C10-C28*	27.4	10.0	10/19/2019	ND	209	104	200	0.107	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142							
Surrogate: 1-Chlorooctadecane	107	% 37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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

Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 6 - 2' (H903558-13)

BTEX 8021B	mg	/kg	Analyze	d By: BF	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.29	2.00	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	189	2.00	10/20/2019	ND	2.09	104	2.00	0.633	
Ethylbenzene*	158	2.00	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	274	6.00	10/20/2019	ND	6.06	101	6.00	1.11	
Total BTEX	631	12.0	10/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 73.3-129

358 %

37.6-147

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	10/21/2019	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3740	50.0	10/19/2019	ND	214	107	200	1.79	
DRO >C10-C28*	10100	50.0	10/19/2019	ND	209	104	200	0.107	
EXT DRO >C28-C36	1400	50.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	282	% 41-142							

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/17/2019	Sampling Date:	10/17/2019
Reported:	10/22/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	FEDERAL AB-B BATTERY		
and the second strends			

Sample ID: V 6 - 2,25' (H903558-14)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.070	0.050	10/20/2019	ND	2.02	101	2.00	0.404	
Toluene*	0.962	0.050	10/20/2019	ND	2,09	104	2.00	0.633	
Ethylbenzene*	0.992	0.050	10/20/2019	ND	2.02	101	2.00	1.59	
Total Xylenes*	1.93	0.150	10/20/2019	ND	6,06	101	6.00	1.11	
Total BTEX	3.96	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	10/21/2019	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*	66,9	10.0	10/19/2019	ND	214	107	200	1.79	
DRO >C10-C28*	488	10.0	10/19/2019	ND	209	104	200	0.107	
EXT DRO >C28-C36	64.5	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	116 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	122 9	37.6-14	7						

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Celeg D.

Celey D. Keene, Lab Director/Quality Manager

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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.
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.
4	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

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 5/30/2023 9:08:41 AM

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 17 of 18

101 East Marland, Hobbs, NM 88240 ARDINAL LABORATORIES

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

(lab use only) ORDER #: Special Instructions: Relinquished by: Relinquished by: Keindnisbag V2-3" V14 V3-2' V2-4 V3-1" V1-3" Company Name V4-1.25' V4-1' V3-2.5 V1-2" Sampler Signature: Telephone No: City/State/Zip: Company Address: 104 South 4th Street Project Manager: H903558 FIELD CODE EOG Resources Inc. Chase Settle 575-748-147 Artesia, NM 88210 TPH EXTENDED NEEDED 10-17-19 Date Date Date **Beginning Depth** V 5 Ime Ime ime Ending Depth Received by ELOT: Received by: 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 Date Sampled ved by: 8:47 AM 8:24 AM 8:42 AM 8:29 AM 8:26 AM 8:25 AM 8:39 AM 8:36 AM 8:31 AM 8:33 AM Fax No: e-mail: **Time Sampled** Field Filtered 104C Chase Settle@eogresources.com Total #. of Containers ----4 -4 --× × × × × × × × × × Ice Preservation & # of Containers HNO3 HCI H2SO4 NaOH Na2S203 None 10/17/19 Olher (Specify) Date Date Date DW=Drinking Water SL=Sludge Matrix Report Format: S S S S S S 0 0 S \$ GW = Groundwater S=Soll/Solid Project Name: NP=Non-Potable Specify Other 14:53 Project Loc: Time 8015B EXTENDED Project #: × × × × × × × × × × TPH: Time Ime TX 1005 TX 1006 TPH: PO #: 205-0750 Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Calions (Ca, Mg, Na, K) Temperature Upon Receipt 1.8 Sample Containers Intact? VOCs Free of Headspace? Laboratory Comments: Received by OCD: 5/25/2028 3:01:16 PMA × Standard Anions (CI, SO4, Alkalinity) TOTAL: TCLP: SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Analyze For: Volatiles Federal AB-B Battery Federal AB-B Battery Semivolatiles BTEX: 8021B × × × × × × × × × × TRRP DHL RCI N.O.R.M. Chlorides × × × × × × × ×× × 1 ~~} SAR NPDES Lone Sta zzzadz z RUSH TAT (Pre-Schedule) 24, 48, 72 hrs ô × × Standard TAT × × × × × × × ×

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Date	Date	10-17-19	Date	TPH EXTENDED NEEDED									FIELD CODE			2	575-748-1471	Artesia, NM 88210	104 South 4th Street	EOG Resources Inc.	Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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Received by ELOT:	Régeived by:	hadi	Descrifted has						10/17/2019	10/17/2019	10/17/2019	10/17/2019	Date Sampled									(505) 393-2326 FAX (505) 393-2476
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November 25, 2019

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

RE: FEDERAL AB - B BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/18/19 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes are denoted by www.tceq.texas.gov/field/ga/lab accredited analytes are denoted by www.tceq.texas.gov/field/ga/lab accredited analytes are denoted analytes are denoted by www.tceq.texas.gov/field/ga/lab accredited analytes are denoted by www.tceq.texas.gov/field/ga/lab accredited analytes are denoted by www.tceq.texas.gov/field

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,

mite Sigh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager

Page 1 of 11



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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 1C - 3.5' (H903912-01)

Analyzed By: MS **BTEX 8021B** mg/kg RPD Qualifier True Value QC **Reporting Limit** Analyzed Method Blank BS % Recovery Analyte Result 2.00 2.37 ND 1.80 90.1 0.050 11/20/2019 < 0.050 Benzene* 0.050 11/20/2019 ND 1.78 89.1 2.00 2.44 <0.050 Toluene* < 0.050 0.050 11/20/2019 ND 1.82 90.8 2.00 2.24 Ethylbenzene* 2.79 ND 5.46 91.0 6.00 0.150 11/20/2019 Total Xylenes* <0.150 <0.300 0.300 11/20/2019 ND **Total BTEX**

Surrogate: 4-Bromofluorobenzene (PIL 101 % 73.3-129

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	11/22/2019	ND	416	104	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	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	93.5	% 41-142	0						
Surrogate: 1-Chlorooctadecane	98,3	% 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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11/18/2019		the second second second
11/10/2019	Sampling Date:	11/14/2019
11/25/2019	Sampling Type:	Soil
FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Tamara Oldaker
FEDERAL AB-B BATTERY		
	11/25/2019 FEDERAL AB - B BATTERY NONE GIVEN	11/25/2019Sampling Type:FEDERAL AB - B BATTERYSampling Condition:NONE GIVENSample Received By:

Sample ID: V 2C - 3.5' (H903912-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2019	ND	1.80	90.1	2.00	2.37	
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89.1	2.00	2.44	
Ethylbenzene*	0.060	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24	
Total Xylenes*	0.165	0.150	11/20/2019	ND	5.46	91.0	6,00	2.79	
Total BTEX	<0.300	0.300	11/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 134 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/22/2019	ND	416	104	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*	60.8	50.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	7360	50.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	1740	50.0	11/19/2019	ND					

37.6-147

313 %

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Surrogate: 1-Chlorooctadecane

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 3C - 2' (H903912-03)

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	11/20/2019	ND	1.80	90.1	2.00	2.37	
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89,1	2.00	2.44	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24	
Total Xylenes*	<0.150	0,150	11/20/2019	ND	5.46	91.0	6.00	2.79	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	73.3-12	9	-					
Chloride, SM4500Cl-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	11/22/2019	ND	416	104	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	11/20/2019	ND	199	99.7	200	1.53	
DRO >C10-C28*	524	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	177	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	95.2 9	% 41-142	g I						
Surrogate: 1-Chlorooctadecane	117 9	37.6-14	7						

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Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 4C - 1.5' (H903912-04)

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	11/20/2019	ND	1.80	90.1	2.00	2.37	
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89,1	2.00	2.44	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.46	91.0	6.00	2.79	
Total BTEX	<0.300	0,300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	11/22/2019	ND	400	100	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	11/20/2019	ND	199	99.7	200	1,53	
DRO >C10-C28*	277	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	127	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	83.1 9	6 41-142	é.						
Surrogate: 1-Chlorooctadecane	100.9	6 37.6-14	7						

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Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 5C - 2.5' (H903912-05)

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	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1,80	90.2	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 73,3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/22/2019	ND	400	100	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	11/20/2019	ND	199	99.7	200	1.53	
DR0 >C10-C28*	22.6	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	84.9 9	% 41-142	e.						
Surrogate: 1-Chlorooctadecane	90.0 9	% 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 6C - 2.5' (H903912-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	1.28	0.100	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	3,19	0.100	11/20/2019	ND	1,80	90.2	2.00	7.55	
Total Xylenes*	9.88	0.300	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	14.3	0.600	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	140	73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	11/22/2019	ND	400	100	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*	253	10.0	11/20/2019	ND	199	99.7	200	1.53	
DRO >C10-C28*	1660	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	239	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	126 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	142 9	37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 7C - 7.5' (H903912-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS	_				_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.83	2.00	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	93.1	2.00	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	85,0	2.00	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	192	6.00	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	379	12.0	11/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 119 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/22/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS	1.4				S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4440	50.0	11/20/2019	ND	199	99.7	200	1.53	
DRO >C10-C28*	16200	50.0	11/20/2019	ND	198	98.9	200	2,26	
EXT DRO >C28-C36	2270	50.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	334	% 41-142							

Surrogate: 1-Chlorooctadecane

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 8C - 7.5' (H903912-08)

BTEX 8021B	mg/	¢g	Analyze	d By: MS	-			_	S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	1.01	0.100	11/20/2019	ND	1.77	88.7	2,00	7.07	
Ethylbenzene*	3.21	0.100	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	8,34	0.300	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	12.6	0.600	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	138 %	6 73.3-129)						
Chloride, SM4500Cl-B	mg/l	٧g	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/22/2019	ND	400	100	400	0.00	
TPH 8015M	mg/l	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	146	10.0	11/20/2019	ND	199	99.7	200	1.53	
DRO >C10-C28*	1190	10.0	11/20/2019	ND	198	98.9	200	2,26	
EXT DRO >C28-C36	167	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	122 %	5 41-142						-	
Surrogate: 1-Chlorooctadecane	132 %	37.6-147	7						

*=Accredited Analyte

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Mike Snyder For 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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 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

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 5/30/2023 9:08:41 AM

(lab use only) Belinquished Special Instructions: ORDER #: Relinquished by: Relingu LAB # (lab use only) Page 11 of 11 3 V3C-2 4 V4C-1.5 2 V2C-3.5' 00 V8C-7.5 V6C-2.5' V5C-2.5' V1C-3.5' V7C-7.5' Company Name Project Manager: Sampler Signature: Telephone No: City/State/Zip: Company Address: 2 ARDINAL LABORATORIES 4962912 101 East Marland, Hobbs, NM 88240 FIELD CODE Chase Settle 575-748-147 104 South 4th Street EOG Y Resources Inc. Artesia, NM 88210 PH EXTENDED needed. 11-18-19 Date Date Date **Beginning Depth** , Time Time Ime wD Ending Depth Received by ELOT: (505) 393-2326 FAX (505) 393-2476 Received by: Received by: 11/14/2019 11/14/2019 11/14/2019 11/14/2019 11/14/2019 11/14/2019 11/14/2019 11/14/2019 **Date Sampled** 1:05 PM 1:04 PM 1:00 PM 1:23 PM 1:28 PM 1:02 PM 1:17 PM 1:15 PM Fax No: **Time Sampled** e-mail: Field Fillered Total #. of Containers -4 --4 ---Chase Settle@eogresources.com × × × × × X × × Ice Preservation & # of Containers HNO₃ HCI CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST H2SO4 NaOH Na2S2O3 None 61-8-12 Olher (Specify) Date Date Date DW=Drinking Water SL=Sludge Matrix Report Format: S S S S S S GW = Groundwater S=SolVSolid S S Project Name: NP=Non-Polable Specify Other 13:45 Project Loc: Time Time TPH: 8015B Project #: × × × × × × × × ine TPH: TX 1005 TX 1006 PO #: 205-0750 Sample Hand Delivered by Sampler/Client Rep. ? by Counier? UPS Custody seals on cooler(s) Labels on container(s) Custody seals on container(s) Sample Containers Intact? Callons (Ca, Mg, Na, K) Temperature Upon Receipt 3.4c °C VOCs Free of Headspace? Laboratory Comments: X Standard Anions (CI, SO4, Alkalinity) TOTAL: TCLP: SAR/ESP/CEC Melals: As Ag Ba Cd Cr Pb Hg Se Analyze For: Volatiles Federal Federal AB B Battery Semivolalles TRRP BTEX: 8021B × × × × × × × × AB 머니 RCI ω 3.42 N.O.R.M. Battery × × × Chlorides × × × × × SAR NPDES Lone Star ZZZZZZZ RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Standard TAT × × × × × × × ×

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Received by OCD: 5/25/2028 3:201:16/PMA



November 25, 2019

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

RE: FEDERAL AB - B BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/18/19 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab 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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager

Page 1 of 13

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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 1 (H903913-01)

Page 106306/163

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	11/20/2019	ND	1.79	89.3	2,00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	0.089	0.050	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	0.290	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	0.379	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 73.3-129							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/22/2019	ND	400	100	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*	13.1	10.0	11/20/2019	ND	199	99.7	200	1.53	
DRO >C10-C28*	1250	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	298	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	142 %	6 37.6-147							

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 2 of 13



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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 2 (H903913-02)

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	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	73.3-12	9	1					
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/22/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2019	ND	199	99.7	200	1.53	
DRO >C10-C28*	10.2	10.0	11/20/2019	ND	198	98.9	200	2.26	
			11/20/2019	ND					

Surrogate: 1-Chlorooctadecane

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 3 (H903913-03)

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	11/20/2019	ND	1.79	89.3	2,00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	<0,150	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	11/22/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2019	ND	199	99.7	200	1.53	
DRO >C10-C28*	965	10.0	11/20/2019	ND	198	98.9	200	2,26	
EXT DRO >C28-C36	384	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	96.1	% 41-142							
Surrogate: 1-Chlorooctadecane	132 9	37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 4 (H903913-04)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0,050	0.050	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0.300	0.300	11/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 73.3-129

Chloride, SM4500Cl-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	11/22/2019	ND	400	100	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	11/20/2019	ND	199	99.7	200	1.53	
DR0 >C10-C28*	149	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	74.8	10.0	11/20/2019	ND					

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Surrogate: 1-Chlorooctadecane

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 5 (H903913-05)

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	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.80	90.2	2,00	7.55	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	11/22/2019	ND	400	100	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	11/20/2019	ND	199	99.7	200	1.53	
DR0 >C10-C28*	98.8	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	50,9	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	86.3 9	% 41-142	0						-
Surrogate: 1-Chlorooctadecane	98.1	37.6-14	7						

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Mike Snyder For 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:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 6 (H903913-06)

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	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.80	90.2	2.00	7,55	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/22/2019	ND	400	100	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	11/20/2019	ND	199	99.7	200	1.53	
DR0 >C10-C28*	150	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	36.9	10,0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	e.						
Surrogate: 1-Chlorooctadecane	109	37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 7 (H903913-07)

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	11/20/2019	ND	1.79	89.3	2,00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
736	16.0	11/22/2019	ND	400	100	400	0.00	
mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/20/2019	ND	199	99.7	200	1.53	
432	10.0	11/20/2019	ND	198	98.9	200	2.26	
341	10.0	11/20/2019	ND					
	736 mg, Result <10.0 432	736 16.0 mg/kg Result Reporting Limit <10.0	736 16.0 11/22/2019 mg/kg Analyze Result Reporting Limit Analyzed <10.0	736 16.0 11/22/2019 ND mg/kg Analyzed Hethod Blank Result Reporting Limit Analyzed Method Blank <10.0	736 16.0 11/22/2019 ND 400 mg/kg Analyzed Method Blank BS Result Reporting Limit Analyzed Method Blank BS <10.0	736 16.0 11/22/2019 ND 400 100 mg/kg Analyzed Bisk Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	736 16.0 11/22/2019 ND 400 100 400 mg/kg Analyzed ND 800 100 400 Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0 10.0 11/20/2019 ND 199 99.7 200 432 10.0 11/20/2019 ND 198 98.9 200	736 16.0 11/22/2019 ND 400 100 400 0.00 mg/kg Analyzed ND 400 100 400 0.00 Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0 10.0 11/20/2019 ND 199 99.7 200 1.53 432 10.0 11/20/2019 ND 198 98.9 200 2.26

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Surrogate: 1-Chlorooctadecane

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

131%

37.6-147

*=Accredited Analyte



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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		
Troject Location			

Sample ID: H 8 (H903913-08)

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	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2,00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	6 73.3-12	9						
Chloride, SM4500Cl-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	11/22/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		12.5			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2019	ND	199	99.7	200	1.53	
DR0 >C10-C28*	104	10.0	11/20/2019	ND	198	98,9	200	2.26	
EXT DRO >C28-C36	47.8	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	90.8 9	6 41-142							
Surrogate: 1-Chlorooctadecane	106 %	6 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 9 (H903913-09)

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	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1.77	88.7	2.00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	<0.150	0,150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0,300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 73.3-129							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	11/22/2019	ND	400	100	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	11/20/2019	ND	199	99.7	200	1.53	
DR0 >C10-C28*	664	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	372	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	89.7 9	6 41-142	1						
Surrogate: 1-Chlorooctadecane	136%	6 37.6-147	9						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/18/2019	Sampling Date:	11/14/2019
Reported:	11/25/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		
a construction of the			

Sample ID: H 10 (H903913-10)

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	11/20/2019	ND	1.79	89.3	2.00	7.20	
Toluene*	<0.050	0.050	11/20/2019	ND	1,77	88.7	2.00	7.07	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.80	90.2	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.44	90.6	6.00	7.98	
Total BTEX	<0,300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	73.3-12	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/22/2019	ND	400	100	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	11/20/2019	ND	199	99.7	200	1.53	
DR0 >C10-C28*	123	10.0	11/20/2019	ND	198	98.9	200	2.26	
EXT DRO >C28-C36	40.2	10.0	11/20/2019	ND					
Surrogate: 1-Chlorooctane	75.9	% 41-142							
Surrogate: 1-Chlorooctadecane	82.2	% 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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 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

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Released to Imaging: 5/30/2023 9:08:41 AM

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Relinquished by:	Kelinquisned by:			Special	10	a	8	2	5	5	4	S	10	1	LAB # (lab use only)	(lab use only) ORDER #:							R
hed by:	ned by:			Instructions:		H9	H8	H7	H6	H5	H4	H3	H2	H	FIELD CODE	only H963913	Sampler Signature:	Telephone No: 575-748-1471	City/State/Zip: Artesia, NM 88210	Company Address: 104 South 4th Street	Company Name EOG Y Resources Inc.	Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
Date	Date	11-18-19 11-18-19	- - +	TPH EXTENDED needed												_	K	17	88210	th Street	ources Inc.	ø	ES VM 88240
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 20, 2019

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

RE: FEDERAL AB - B BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/16/19 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.tceg.texas.gov/field/ga/lab 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 7



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

Received:	12/16/2019	Sampling Date:	12/12/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 2 C - 4' (H904193-01)

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	12/19/2019	ND	1.71	85.5	2.00	10.4	
Toluene*	<0.050	0.050	12/19/2019	ND	1.71	85.4	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/19/2019	ND	1.67	83.7	2.00	12.1	
Total Xylenes*	<0.150	0.150	12/19/2019	ND	4.97	82.8	6.00	11.6	
Total BTEX	<0.300	0.300	12/19/2019	ND					

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/17/2019	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	12/18/2019	ND	231	115	200	1.66	
DR0 >C10-C28*	1500	10.0	12/18/2019	ND	227	113	200	2.47	
EXT DRO >C28-C36	572	10.0	12/18/2019	ND					
Surrogate: 1-Chlorooctane	95.6	% 41-142	k)						

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Surrogate: 1-Chlorooctadecane

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

142 %

37.6-147

Page 2 of 7



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

Received:	12/16/2019	Sampling Date:	12/12/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 6 C - 3' (H904193-02)

mg/	/kg	Analyze	d By: ms	_				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/19/2019	ND	1.71	85.5	2.00	10.4	
<0.050	0.050	12/19/2019	ND	1.71	85.4	2.00	10.3	
<0.050	0.050	12/19/2019	ND	1.67	83.7	2.00	12.1	
<0.150	0.150	12/19/2019	ND	4.97	82.8	6.00	11.6	
<0.300	0.300	12/19/2019	ND					
	Result <0,050 <0,050 <0,050 <0,150	Result Reporting Limit <0,050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 110 % 73.3-129

119%

37.6-147

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/17/2019	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	12/18/2019	ND	231	115	200	1,66	
DRO >C10-C28*	197	10,0	12/18/2019	ND	227	113	200	2.47	
EXT DRO >C28-C36	176	10.0	12/18/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142							

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Surrogate: 1-Chlorooctadecane

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/16/2019	Sampling Date:	12/12/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 7 C - 9' (H904193-03)

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	12/19/2019	ND	1.71	85.5	2.00	10.4	
Toluene*	<0.050	0.050	12/19/2019	ND	1.71	85.4	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/19/2019	ND	1.67	83.7	2.00	12.1	
Total Xylenes*	<0.150	0,150	12/19/2019	ND	4.97	82.8	6.00	11.6	
Total BTEX	<0.300	0.300	12/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 108 % 73.3-129

109 %

37.6-147

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	12/17/2019	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	12/18/2019	ND	231	115	200	1.66	
DRO >C10-C28*	<10.0	10.0	12/18/2019	ND	227	113	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	12/18/2019	ND					

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/16/2019	Sampling Date:	12/12/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldake
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: V 8 C - 9' (H904193-04)

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	12/19/2019	ND	1.71	85.5	2.00	10.4	
Toluene*	<0.050	0.050	12/19/2019	ND	1,71	85.4	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/19/2019	ND	1.67	83.7	2.00	12.1	
Total Xylenes*	<0.150	0.150	12/19/2019	ND	4.97	82.8	6.00	11.6	
Total BTEX	<0.300	0.300	12/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 107 % 73.3-129

102 %

37.6-147

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/17/2019	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	12/18/2019	ND	231	115	200	1.66	
DR0 >C10-C28*	15.2	10.0	12/18/2019	ND	227	113	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	12/18/2019	ND					
Surrogate: 1-Chlorooctane	94.8	% 41-142							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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Notes and Definitions

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 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

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*=Accredited Analyte

Released to Imaging: 5/30/2023 9:08:41 AM

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 7

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

December 20, 2019

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

RE: FEDERAL AB - B BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/16/19 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 8



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

Received:	12/16/2019	Sampling Date:	12/12/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY	and a state of the state of the state of the	

Sample ID: H 1 - 2 (H904192-01)

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	12/18/2019	ND	1.93	96.7	2.00	6.24	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	93.9	2.00	5.85	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.58	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.58	93.0	6.00	6.58	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.2 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	12/17/2019	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	12/18/2019	ND	231	115	200	1.66	
DRO >C10-C28*	<10.0	10.0	12/18/2019	ND	227	113	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	12/18/2019	ND					

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Received:	12/16/2019	Sampling Date:	12/12/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 3 - 2 (H904192-02)

mg,	/kg	Analyze	d By: MS				_	-
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/18/2019	ND	1.93	96.7	2.00	6.24	
<0.050	0.050	12/18/2019	ND	1.88	93.9	2.00	5.85	
<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.58	
<0.150	0.150	12/18/2019	ND	5.58	93.0	6.00	6.58	
<0.300	0.300	12/18/2019	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIE 98.0 % 73.3-129

99.9%

37.6-147

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/17/2019	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	12/18/2019	ND	231	115	200	1.66	
DRO >C10-C28*	<10.0	10.0	12/18/2019	ND	227	113	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	12/18/2019	ND					
Surrogate: 1-Chlorooctane	95.0	% 41-142							

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/16/2019	Sampling Date:	12/12/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 4 - 2 (H904192-03)

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	12/19/2019	ND	1.71	85.5	2.00	10.4	
Toluene*	<0.050	0.050	12/19/2019	ND	1.71	85.4	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/19/2019	ND	1.67	83.7	2.00	12.1	
Total Xylenes*	<0.150	0.150	12/19/2019	ND	4.97	82.8	6.00	11.6	
Total BTEX	<0.300	0.300	12/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 %	6 73.3-12	9						
Chloride, SM4500Cl-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	12/17/2019	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	12/18/2019	ND	231	115	200	1.66	
DRO >C10-C28*	<10.0	10.0	12/18/2019	ND	227	113	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	12/18/2019	ND					
Surrogate: 1-Chlorooctane	90.3 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	94.69	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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Received:	12/16/2019	Sampling Date:	12/12/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 7 - 2 (H904192-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/19/2019	ND	1.71	85.5	2,00	10.4	
Toluene*	<0.050	0.050	12/19/2019	ND	1.71	85.4	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/19/2019	ND	1.67	83.7	2.00	12.1	
Total Xylenes*	<0.150	0.150	12/19/2019	ND	4.97	82.8	6.00	11.6	
Total BTEX	<0.300	0.300	12/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	80.0	16.0	12/17/2019	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	12/18/2019	ND	231	115	200	1.66	
DRO >C10-C28*	<10.0	10.0	12/18/2019	ND	227	113	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	12/18/2019	ND					
Surrogate: 1-Chlorooctane	91.6	% 41-142	6						
Surrogate: 1-Chlorooctadecane	93.9	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	12/16/2019	Sampling Date:	12/12/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 9 - 2 (H904192-05)

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	12/19/2019	ND	1.71	85.5	2.00	10.4	
Toluene*	<0.050	0.050	12/19/2019	ND	1.71	85.4	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/19/2019	ND	1.67	83.7	2,00	12.1	
Total Xylenes*	<0.150	0.150	12/19/2019	ND	4.97	82.8	6.00	11.6	
Total BTEX	<0.300	0.300	12/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 106 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	12/17/2019	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	12/18/2019	ND	231	115	200	1.66	
DRO >C10-C28*	<10.0	10.0	12/18/2019	ND	227	113	200	2,47	
EXT DRO > C28-C36	<10.0	10.0	12/18/2019	ND					

37.6-147

Surrogate: 1-Chlorooctadecane 102 %

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Celeg Ditree

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 8



Notes and Definitions

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,
14	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

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*=Accredited Analyte

Released to Imaging: 5/30/2023 9:08:41 AM

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Celleg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 8

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shed by:	shed by:	shed by:		Special Instructions:				H9-2	H7-2			H1-2	FIELD CODE	R# H404192		Sampler Signature:	Telephone No: 575-7	City/State/Zip: Artes	Company Address: 104 South 4th Street	Company Name EOG	Project Manager: Chas	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
Date	Date	12-16-19	-	TPH EXTENDED needed									D			M.S.	575-748-1471	Artesia, NM 88210	outh 4th Street	EOG Y Resources Inc.	Chase Settle	TORIES bbs, NM 88240
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January 10, 2020

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

RE: FEDERAL AB - B BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/09/20 15:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 accredited through Texas NELAP under certificate number T104704398-19-12. 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 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. Keens

Celey D. Keene Lab Director/Quality Manager

Page 1 of 5



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

Received:	01/09/2020	Sampling Date:	01/09/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY	Contract (Property Contract Sector Contract	

Sample ID: V 2 C - 4.5' (H000084-01)

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	01/10/2020	ND	2.04	102	2.00	2.52	
Toluene*	<0.050	0.050	01/10/2020	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.04	102	2.00	2.48	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.11	102	6.00	1.58	
Total BTEX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 118 % 73.3-129

98.0 %

37.6-147

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	01/10/2020	ND	400	100	400	7.69	
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	01/10/2020	ND	219	109	200	8.19	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	236	118	200	3,78	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					
Surrogate: 1-Chlorooctane	91.4	% 41-142							

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Surrogate: 1-Chlorooctadecane

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Celley Di Keene

Celey D. Keene, Lab Director/Quality Manager

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

Received:	01/09/2020	Sampling Date:	01/09/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	FEDERAL AB - B BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	FEDERAL AB-B BATTERY		

Sample ID: H 9 - 3 (H000084-02)

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	01/10/2020	ND	2.04	102	2.00	2.52	
Toluene*	<0.050	0.050	01/10/2020	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.04	102	2.00	2,48	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.11	102	6.00	1.58	
Total BTEX	<0.300	0.300	01/10/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/10/2020	ND	400	100	400	7.69	
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	01/10/2020	ND	219	109	200	8.19	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	236	118	200	3.78	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					
Surrogate: 1-Chlorooctane	85.8	% 41-142	e 11						
Surrogate: 1-Chlorooctadecane	92.3	% 37.6-14	7						

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Celleg Z

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5

*=Accredited Analyte



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

Notes and Definitions

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 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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Celey D. Keene, Lab Director/Quality Manager

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	shed by:	shed by:			Special Instructions:					H9-3	V2C-4.5'	FIELD CODE	R#: H000084	only)	Sampler Signature:	Telephone No: 575-748-1471	City/State/Zip: Artesia,	Company Address: 104 South 4th Street	Company Name EOG Y	Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
	Date	Date	1-9-20										_		N/S/	3-1471	Artesia, NM 88210	uth 4th Street	EOG Y Resources Inc.	Settle	DRIES bs, NM 88240
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_	_		Date 9-20							S	s	GW = Groundwater S=Soll/Solid NP=Non-Potable Specify Other	Matrix		ogresources.com	Report Format:				Pro	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
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Federal AB B Battery Closure Report 2RP-5701



January 17, 2020

Appendix E Form C-141 (Initial and Closure)

energy opportunity growth

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	2RP-5701
Facility ID	
Application ID	

Release Notification

Responsible Party

EOG Resources, Inc.	7377	
Chase Settle	575-748-1471	
Chase_Settle@eogresources.com	Incident # (assigned by OCD)	
104 S. 4th Street, Artesia, NM 88210		

Location of Release Source

Latitude 32.69853

Longitude <u>-104.51345</u> (NAD 83 in decimal degrees to 5 decimal places)

Site Name Federal AB B Battery	Site Type Battery
Date Release Discovered October 11, 2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
М	32	18S	25E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 1
Produced Water	Volume Released (bbls) 19	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	X Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

High winds caused the pvc water leg to break on a 40 Bbl 3-phase vertical separation tank that was half full at the time of the release.

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-5701	
Facility ID		
Application ID		

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🛛 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have <u>not</u> been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Chase Settle

Signature: Chan Settle

Title: Rep Safety & Environmental II

email: Chase_Settle@eogresources.com

Telephone: 575-748-1471

Date: 10-18-2019

OCD Only

Received by:

Date: _____

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5701
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>303</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔀 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🕅 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

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

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

Form C-141 Page 4	State of New Mexi Oil Conservation Div			Incident ID District RP Facility ID Application ID	2RP-5701
regulations all operators a public health or the enviro failed to adequately invest	formation given above is true and complet re required to report and/or file certain rele mment. The acceptance of a C-141 report igate and remediate contamination that po of a C-141 report does not relieve the ope	ease notifications by the OCD doe se a threat to gro erator of responsi	and perform c s not relieve th undwater, surfi bility for comp	orrective actions for re e operator of liability sl ace water, human healt	leases which may endanger hould their operations have h or the environment. In ederal, state, or local laws
Signature: Chau	@eogresources.com	Date:	01/17/202	0	
OCD Only		1 eiepr		/40-14/1	

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Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, humau health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: _____ Title: _____ Signature: Date: _____ email: Telephone: OCD Only Received by: _____ Date: _____ Approved with Attached Conditions of Approval Approved Denied Deferral Approved Signature: Date:

Form C-141 Page 6

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5701
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Chase Settle Title: Rep Safety and Environmental II

Signature: Chan Settle

email: Chase_Settle@eogresources.com

_____ Date: 01/17/2020 ources.com Telephone: 575-748-1471

OCD Only

Received by OCD: 5/25/2028 3201516/PM4

Received by:

Date:	

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

Closure Approved by:	Date:
Printed Name:	Title



Federal AB-B Battery Closure Report #nMCS0124838636



August 31, 2022

Appendix F 2021 Laboratory Analytical Report

energy opportunity growth



November 15, 2021

Dennis Williams EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2111431

RE: Federal AB B

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/9/2021 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2111431

Date Reported: 11/15/2021

CLIENT: EOG	Client Sample ID: BH21-01 1' Collection Date: 11/5/2021 10:10:00 AM									
Project: Federal AB B										
Lab ID: 2111431-001	Matrix: SOIL		Received Dat	e: 11/	/9/2021 8:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst:	LRN				
Chloride	67	60	mg/Kg	20	11/11/2021 10:48:54 AM	1 63887				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM				
Diesel Range Organics (DRO)	20	9.6	mg/Kg	1	11/11/2021 3:10:58 PM	63846				
Motor Oil Range Organics (MRO)	78	48	mg/Kg	1	11/11/2021 3:10:58 PM	63846				
Surr: DNOP	71.2	70-130	%Rec	1	11/11/2021 3:10:58 PM	63846				
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst:	NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2021 12:15:47 PM	1 63838				
Surr: BFB	105	70-130	%Rec	1	11/10/2021 12:15:47 PM	1 63838				
EPA METHOD 8021B: VOLATILES					Analyst:	NSB				
Benzene	ND	0.025	mg/Kg	1	11/10/2021 12:15:47 PM	1 63838				
Toluene	ND	0.049	mg/Kg	1	11/10/2021 12:15:47 PM	1 63838				
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2021 12:15:47 PM	1 63838				
Xylenes, Total	ND	0.099	mg/Kg	1	11/10/2021 12:15:47 PM	1 63838				
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	11/10/2021 12:15:47 PM	1 63838				

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
- Н 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 interference 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 Limit

Page 1 of 10

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2111431

Date Reported: 11/15/2021

CLIENT: EOG		C	ient Sa	ample II	D: BF	121-02 1'				
Project: Federal AB B	Collection Date: 11/5/2021 11:45:00 AM									
Lab ID: 2111431-002	Matrix: SOIL	Received Date: 11/9/2021 8:00:00 AM								
Analyses	Result	RL	RL Qual Units		DF	Date Analyzed B	Batch			
EPA METHOD 300.0: ANIONS						Analyst: L	.RN			
Chloride	1100	60		mg/Kg	20	11/11/2021 12:15:47 PM 6	63887			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst: S	SB			
Diesel Range Organics (DRO)	920	200		mg/Kg	20	11/10/2021 2:37:18 PM 6	63846			
Motor Oil Range Organics (MRO)	1200	990		mg/Kg	20	11/10/2021 2:37:18 PM 6	63846			
Surr: DNOP	0	70-130	S	%Rec	20	11/10/2021 2:37:18 PM 6	63846			
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst: N	ISB			
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/10/2021 1:26:01 PM 6	63838			
Surr: BFB	97.6	70-130		%Rec	1	11/10/2021 1:26:01 PM 6	63838			
EPA METHOD 8021B: VOLATILES						Analyst: N	ISB			
Benzene	ND	0.025		mg/Kg	1	11/10/2021 1:26:01 PM 6	63838			
Toluene	ND	0.049		mg/Kg	1	11/10/2021 1:26:01 PM 6	63838			
Ethylbenzene	ND	0.049		mg/Kg	1	11/10/2021 1:26:01 PM 6	63838			
Xylenes, Total	ND	0.098		mg/Kg	1	11/10/2021 1:26:01 PM 6	63838			
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/10/2021 1:26:01 PM 6	63838			

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
- Н 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 interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit
- RL

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2111431

Date Reported: 11/15/2021

CLIENT: EOG	Client Sample ID: BH21-02 1.5' Collection Date: 11/5/2021 12:00:00 PM									
Project: Federal AB B										
Lab ID: 2111431-003	Matrix: SOIL	Received Date: 11/9/2021 8:00:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed Batc					
EPA METHOD 300.0: ANIONS					Analyst: LRN					
Chloride	1300	60	mg/Kg	20	11/11/2021 12:28:11 PM 6388					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRN					
Diesel Range Organics (DRO)	120	10	mg/Kg	1	11/11/2021 3:34:59 PM 6384					
Motor Oil Range Organics (MRO)	180	50	mg/Kg	1	11/11/2021 3:34:59 PM 6384					
Surr: DNOP	99.5	70-130	%Rec	1	11/11/2021 3:34:59 PM 6384					
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: NSB					
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/10/2021 3:00:27 PM 6383					
Surr: BFB	98.1	70-130	%Rec	1	11/10/2021 3:00:27 PM 6383					
EPA METHOD 8021B: VOLATILES					Analyst: NSB					
Benzene	ND	0.023	mg/Kg	1	11/10/2021 3:00:27 PM 6383					
Toluene	ND	0.046	mg/Kg	1	11/10/2021 3:00:27 PM 6383					
Ethylbenzene	ND	0.046	mg/Kg	1	11/10/2021 3:00:27 PM 6383					
Xylenes, Total	ND	0.093	mg/Kg	1	11/10/2021 3:00:27 PM 6383					
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	11/10/2021 3:00:27 PM 6383					

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
- Н 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 interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL
 - Reporting Limit

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Lab Order 2111431

Date Reported: 11/15/2021

CLIENT: EOG	Client Sample ID: BH21-03 1'									
Project: Federal AB B	Collection Date: 11/5/2021 12:15:00 PM									
Lab ID: 2111431-004	Matrix: SOIL	Received Date: 11/9/2021 8:00:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: LRN				
Chloride	440	60	mg/Kg	20	11/11/2021 12:40:36 PI	M 63887				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: SB				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/10/2021 3:25:40 PM	63846				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/10/2021 3:25:40 PM	63846				
Surr: DNOP	121	70-130	%Rec	1	11/10/2021 3:25:40 PM	63846				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/10/2021 3:23:56 PM	63838				
Surr: BFB	98.0	70-130	%Rec	1	11/10/2021 3:23:56 PM	63838				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.025	mg/Kg	1	11/10/2021 3:23:56 PM	63838				
Toluene	ND	0.050	mg/Kg	1	11/10/2021 3:23:56 PM	63838				
Ethylbenzene	ND	0.050	mg/Kg	1	11/10/2021 3:23:56 PM	63838				
Xylenes, Total	ND	0.10	mg/Kg	1	11/10/2021 3:23:56 PM	63838				
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	11/10/2021 3:23:56 PM	63838				

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
- Н 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 interference
- 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 Limit

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Analytical Report
Lab Order 2111431

Hall	Environmental	Analysis	Laboratory,	Inc.

Lab Order 2111431 Date Reported: 11/15/2021

CLIENT: EOG		Clie	ent Sample II): Bł	H21-03 1.75'					
Project: Federal AB B	Collection Date: 11/5/2021 12:30:00 PM									
Lab ID: 2111431-005	Matrix: SOIL	I	Received Date	e: 11	/9/2021 8:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: LRN				
Chloride	440	60	mg/Kg	20	11/11/2021 12:53:01 P	M 63887				
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analys	t: SB				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/10/2021 3:49:52 PN	1 63846				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/10/2021 3:49:52 PN	1 63846				
Surr: DNOP	117	70-130	%Rec	1	11/10/2021 3:49:52 PN	1 63846				
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB				
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/10/2021 3:47:30 PN	1 63838				
Surr: BFB	102	70-130	%Rec	1	11/10/2021 3:47:30 PM	1 63838				
EPA METHOD 8021B: VOLATILES					Analys	t: NSB				
Benzene	ND	0.023	mg/Kg	1	11/10/2021 3:47:30 PN	1 63838				
Toluene	ND	0.046	mg/Kg	1	11/10/2021 3:47:30 PN	1 63838				
Ethylbenzene	ND	0.046	mg/Kg	1	11/10/2021 3:47:30 PM	1 63838				
Xylenes, Total	ND	0.092	mg/Kg	1	11/10/2021 3:47:30 PN	1 63838				
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	11/10/2021 3:47:30 PN	1 63838				

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2111431

Date Reported: 11/15/2021

CLIENT: EOG		Cl	ient Sample II	D: BI	H21-04 1'					
Project: Federal AB B	Collection Date: 11/5/2021 12:40:00 PM									
Lab ID: 2111431-006	Matrix: SOIL	Received Date: 11/9/2021 8:00:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	LRN				
Chloride	ND	60	mg/Kg	20	11/11/2021 1:05:25 PM	63887				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/10/2021 4:14:02 PM	63846				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/10/2021 4:14:02 PM	63846				
Surr: DNOP	92.6	70-130	%Rec	1	11/10/2021 4:14:02 PM	63846				
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2021 4:11:05 PM	63838				
Surr: BFB	98.5	70-130	%Rec	1	11/10/2021 4:11:05 PM	63838				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.025	mg/Kg	1	11/10/2021 4:11:05 PM	63838				
Toluene	ND	0.049	mg/Kg	1	11/10/2021 4:11:05 PM	63838				
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2021 4:11:05 PM	63838				
Xylenes, Total	ND	0.098	mg/Kg	1	11/10/2021 4:11:05 PM	63838				
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	11/10/2021 4:11:05 PM	63838				

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
- Н 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 interference 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 Limit

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14

1.5

15.00

Client: Project:	EOG Federal A	AB B								
Sample ID: N	MB-63887	SampType: mb	lk	TestCode: EPA Method 300.0: Anions						
Client ID: PBS Batch ID: 63887			R	unNo: 82780						
Prep Date:	11/11/2021	Analysis Date: 11	/11/2021	S	eqNo: 2939352	Units: mg/K	g			
Analyte			SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND 1.5								
Sample ID: L	_CS-63887	SampType: Ics		Test	Code: EPA Methe	od 300.0: Anion	s			
Client ID:	CSS	Batch ID: 638	87	R	unNo: 82780					
Prep Date:	11/11/2021	Analysis Date: 11	/11/2021	S	eqNo: 2939353	Units: mg/K	g			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual	

0

90.5

90

110

Qualifiers:

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

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2111431

15-Nov-21

WO#:

Client:EOGProject:Federal	AB B									
Sample ID: MB-63846	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS Batch ID: 63846			F	unNo: 8	2729					
Prep Date: 11/9/2021	11/9/2021 Analysis Date: 11/10/2021			S	eqNo: 2	938788	Units: mg/K	(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	11		10.00		106	70	130			
Sample ID: LCS-63846	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batcl	n ID: 63	846	F	unNo: 8 2	2729				
Prep Date: 11/9/2021	Analysis E	Date: 11	/10/2021	S	eqNo: 2	938789	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	135			
Surr: DNOP	5.5		5.000		109	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 interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2111431

15-Nov-21

WO#:

	WO#:	2111431
vironmental Analysis Laboratory, Inc.		15-Nov-21

Client: Project:	EOG Federal	AB B										
Sample ID: mb-63838 SampType: MBLK					TestCode: EPA Method 8015D: Gasoline Range							
Client ID: F	ient ID: PBS Batch ID: 63838			F	RunNo: 82755							
Prep Date:	11/9/2021	Analysis D	nalysis Date: 11/10/2021			eqNo: 29	937740	Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	Organics (GRO)	ND	5.0									
Surr: BFB		1100		1000		105	70	130				
Sample ID: I	cs-63838	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e		
Client ID: L	CSS	Batch	ID: 638	338	F	unNo: 82	2755					
Prep Date:	11/9/2021	Analysis D	ate: 11	/10/2021	S	eqNo: 2	937741	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	Organics (GRO)	24	5.0	25.00	0	97.2	78.6	131				
Surr: BFB		1200		1000		118	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н 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 interference S
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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211143	WO#:
15-Nov-21	

	OG ederal AB B											
Sample ID: mb-63838	D: mb-63838 SampType: MBLK TestCode: EPA Method 8021B: Volatiles											
Client ID: PBS	Bate	ttch ID: 63838 RunNo: 8275				2755						
Prep Date: 11/9/202	1 Analysis	Date: 1	1/10/2021	S	SeqNo: 2	937780	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenze	ene 1.1		1.000		105	70	130					
Sample ID: LCS-6383	8 Samp	SampType: LCS TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Bato	ch ID: 63	838	RunNo: 82755								
Prep Date: 11/9/202	1 Analysis	Date: 1	1/10/2021	SeqNo: 2937781			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.93	0.025	1.000	0	93.1	80	120					
Toluene	0.95	0.050	1.000	0	94.6	80	120					
Ethylbenzene	0.96	0.050	1.000	0	96.4	80	120					
Xylenes, Total	2.9	0.10	3.000	0	96.0	80	120					
Surr: 4-Bromofluorobenze	ene 1.0		1.000		104	70	130					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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 interference 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 Limit

Page 10 of 10

1. Is Chain of Custody complete? Yes 2. How was the sample delivered? Court Log In 3. Was an attempt made to cool the samples? Yes 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 5. Sample(s) in proper container(s)? Yes 6. Sufficient sample volume for indicated test(s)? Yes 7. Are samples (except VOA and ONG) properly preserved? Yes 8. Was preservative added to bottles? Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes 1. Does paperwork match bottle labels? Yes 1. Does paperwork match bottle labels? Yes 2. Does paperwork match bottle labels? Yes 3. Is it clear what analyses were requested? Yes		• 🔽	Ropti]
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3. Is it clear what analyses were requested? Yes	No No	• □	Adjusted?	
	No		/	1.1
4. Were all holding times able to be met? Yes (If no, notify customer for authorization.)	No No	• 🗆	Checked by:	Inulas
pecial Handling (if applicable)		1		
5. Was client notified of all discrepancies with this order? Yes	- No	0	NA 🔽	
Person Notified: Date:				
By Whom: Via: eMa	Phone	Fax	In Person	
Regarding:				
Client Instructions:				
6. Additional remarks:				

Page 1 of 1

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Project Hi Tel. 506-345-3975 Fax 506-345-4107 Project Hianager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Proj Project Manager: <td></td> <td>191 AB.</td> <td>- Albuquerque, NM 87109</td>		191 AB.	- Albuquerque, NM 87109
Project Manager. Proj		Project #:	Fax 505-345-4107
		Droiect Manader	
Barnoler Mile	Level 4 (Full Validation)	Renaris 111.11 and	Nypsen siMS sCB's CB's
mple Name Totalier Preservative All Coolers <		1. 0 B Vac	о / DRd /8082 I лг 8270 лг 8270 //
Cooler Temponsative (Fr) 3.4 * 61 * (Fr] 3.3 * * 60 Total Coler Temponsative (Fr] 3.3 * 60 Total Colifor mple Name Type and # Type and # Type and # Type and # Total Colifor M1 · C1 1 V X 8270 (Senti- 1796 8270 (Senti- 1796 M1 · C2 1 X 8260 (VOA) 8270 (Senti- 1766 8270 (Senti- 1766 M1 · C2 1 X 8270 (Senti- 1766 1 1 1 M1 · C2 1 X 8270 (Senti- 1766 1		olers: 1	(GRG 103, 103, 103, 103, 103, 103, 103, 103,
mple Name Container Preservative HEAL No. Type and # Topa and		3.4-6.1. (rF 3.3. (°	MT MT eestic estic estic st, t Me 8 Me 8 Me 8 Me 8 Me
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Federal AB-B Battery Closure Report #nMCS0124838636



August 31, 2022

Appendix G 2021 Vertex Field Notes

energy opportunity growth

Daily Site Visit Report



Client:	EOG Resources Inc.	Inspection Date:	11/5/2021
Site Location Name:	Federal AB-B Battery	Report Run Date:	11/5/2021 9:03 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537	-	
Unique Project ID		- Project Owner:	
Project Reference #		- Project Manager: -	
		Summary of T	limes
Arrived at Site	11/5/2021 9:33 AM		
Departed Site	11/5/2021 2:09 PM		

Field Notes

9:47 Tailgate/ flha and getting sample supplies ready

9:55 Collecting 4 sample points . Each point will have 1 foot and 2 foot collected and field screened.

- 10:04 Collecting of BH21-01
- **11:29** Had to stop work, an old pvc line was stuck. Nothing registered when line sweeping was done. Waiting on roustabout crew to come clamp line. Also waiting on Johnny with EOG to give the clear to continue the Boreholes.
- 12:36 Continuing with BH21-02. Hit refusal at 1.5'
- 12:36 Moved to BH21-03. Which is 50' from BH02 . BH03 hit refusal at 1.75'

12:37 Moved to BH21-04

12:45 BH21-04 refusal at 1'

13:16 Field screening all sample, EC, petro and pid

13:59 All samples are jarred and ready for lab.

.



Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Federal AB-B Battery

Date: (SD: 11/5/21)

					:	Sampling					
				Field	Screenii	ng			Data Co	ollection	
		Hydro	carbon		c	hloride					
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BH21-01	1.0	0	494	0.21	20.1	243		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BH21-02	1.0	0	6930	1.23	20.6	1694		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BH21-02	1.5	0	678	1.43	20.5	1987		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	1.50
BH21-03	1.0	1	21	0.72	20.3	971		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BH21-03	1.8	1	31	0.64	20.3	855		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	1.75
BH21-04	1.0	0	36	0.11	20.1	99		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	1.00

Daily Site Visit Report



Daily Site Visit Signature

Inspector: John Ramirez

Signature:

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	220839
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan approved. Submit a closure report via the OCD permitting portal by 10/8/2023.	5/30/2023

CONDITIONS

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Action 220839