CONCHO

October 22, 2020

Oil Conservation Division, District II
811 S. First St.
Artesia, NM 88210

Deferral Request Report
Arabian 6 Fee #006H
RP#: 2RP-5433
DOR: May 1, 2019
GPS: 32.68315, -104.42246
Unit Letter N, Section 06, Township 19 South, Range 26 East
Eddy County, New Mexico

To Whom It May Concern,

COG Operating, LLC (COG) is pleased to submit the following work plan in response to a release that occurred at the Arabian 6 Fee #006H tank battery. The release is in Unit Letter N, Section 06, Township 19 South, Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.68315 North and -104.42246 West.

BACKGROUND

The release was discovered on May 1, 2019 and was caused by a packing gland on the valve pressuring up and blowing out a stuffing box packing. A C-141 initial report was submitted to the New Mexico Oil Conservation Division (NMOCD). The initial C-141 is presented in Appendix A. The release resulted in approximately eighteen (18) barrels of produced water and a tenth (0.1) barrel of oil. Fifteen (15) barrels of produced water was recovered by a vacuum truck.

GROUNDWATER AND REGULATORY FRAMEWORK

According to water data from the New Mexico Office of State Engineers (NMOSE) the depth to groundwater for the location is estimated to be greater than 100 ft (bgs). NMOSE data can be found in Appendix B.

A risk based evaluation and site determinations were performed in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). According to the site characterization evaluation, the location is in medium karst and within a floodplain. No other receptors (water wells, playas, water course, or lake beds) were located within each specific boundaries or

distance from the site. The groundwater data and the site characterization evaluation data is summarized in Appendix C. The delineation and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
Medium karst & floodplain	>100 feet

Delineation and Closure Criteria:

Recommended Remedial Action Levels (RRALs)	
Chlorides	600 mg/kg
TPH (GRO and DRO and MRO)	100 mg/kg
Benzene	10 mg/kg
Total BTEX	50 mg/kg

REMEDIATION AND SAMPLING

Prior to sampling, the area was scraped to remove the impacted soil. On August 16, 2019, a total of sixteen (16) soil samples (B1 thru B12) and (S-1 thru S4) were collected to delineate the impacted area. The site and sample map is attached. On September 24, 2019 personnel returned to the location to collect additional samples around B3, B5, B10 & B11 due to chlorides found in the initial sample event.

On July 22, 2020, the NMOCD denied the deferral report and requested sample points (B3, B10 and B11) be vertically defined to consider the deferral request.

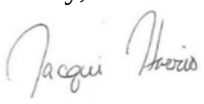
October 16, 2020, additional delineation samples were collected from the area of B3, B10, & B11 in order to vertically delineate those areas. The updated analytical results are shown in Table 1 and reports are attached in Appendix D.

REQUEST FOR DEFERRAL

- The impacted area near sample locations B3, B10, & B11 are located in the immediate vicinity of the wellhead. Due to the location of the contamination up against the wellhead and the remediation causing a major facility deconstruction, COG respectfully requests these areas be deferred until the well is plugged and abandoned. Final remediation and reclamation will take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC.

Should you have any questions or concerns about this release, please do not hesitate to contact me.

Sincerely,



Jacqui Harris
Senior HSE Coordinator
Jharris2@concho.com

Maps

Site and Sample Map
Arabian 6 Fee #006H
2RP-5433

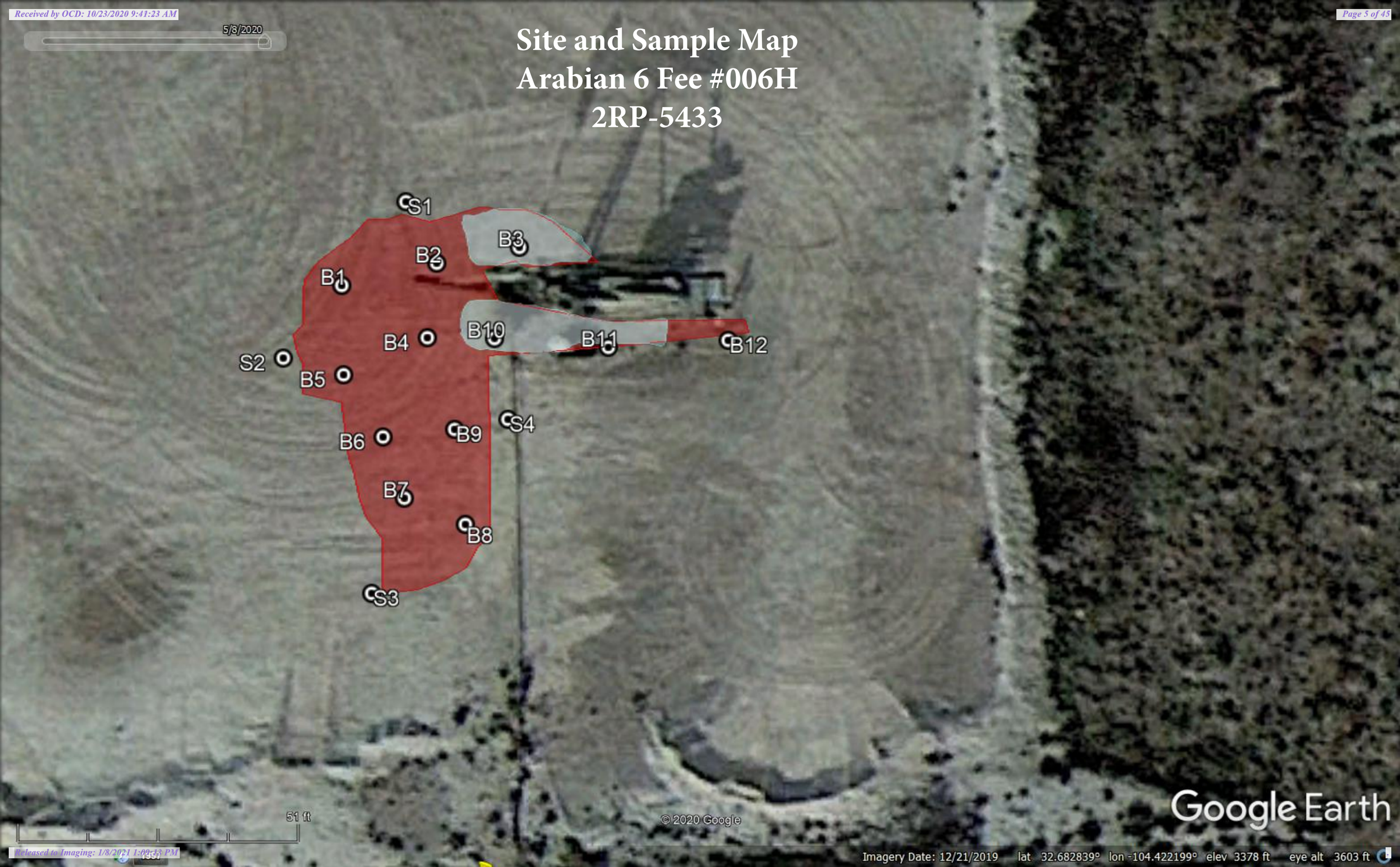


Table of Analytical Data

Table 1

COG Operating LLC.

Arabian 6 Fee # 006H

Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Soil Status		TPH (mg/kg)							Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	*Total*	GRO	DRO	*Total*			
GW >100														
NMOCD RAL Limits (mg/kg)					-	-	-	**100**	-	-		**10**	**50**	**600**
B1	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	352
B2	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	560
B3	8/16/2019	0-1		X	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	704
	9/24/2019	0-1 (resampled)	X		-	-	-	-	-	-	-	-	-	768
	10/16/2020	2	X		-	-	-	-	-	-	-	-	-	224
	10/16/2020	3	X		-	-	-	-	-	-	-	-	-	32
B4	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	96
B5	8/16/2019	0-1		X	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	688
	9/24/2019	0-1 (resampled)	X		-	-	-	-	-	-	-	-	-	176
B6	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	48
B7	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	480
B8	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	368
B9	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	448
B10	8/16/2019	0-1		X	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	768
	9/24/2019	0-1	X		-	-	-	-	-	-	-	-	-	864
	10/16/2020	1-2	X		-	-	-	-	-	-	-	-	-	16
	10/16/2020	2-3	X		-	-	-	-	-	-	-	-	-	<16
B11	8/16/2019	0-1		X	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	688
	9/24/2019	0-1 (resampled)	X		-	-	-	-	-	-	-	-	-	1,120
	10/16/2020	2-3	X		-	-	-	-	-	-	-	-	-	64
	10/16/2020	3-4	X		-	-	-	-	-	-	-	-	-	<16
B12	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	32
S1	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	352
S2	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	352
S3	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	352
S4	8/16/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.050	<0.300	176

(-) Not Analyzed

Defer

Excavated and Removed

Appendix A

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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)	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)
Cause of Release		

Form C-141 State of New Mexico
Page 2 Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☐ 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 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: _____ Title: _____

Signature: DeAnn Grant _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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, 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: _____ Title: _____

Signature: Jacqui Harris _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: 01/08/2021

Appendix B

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 serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 07954	RA	ED	3	2	3	05	19S	26E	555566	3616763*	1492	290	175	115
RA 07066	RA	ED	3	4	1	05	19S	26E	555561	3617166*	1656	202	100	102
RA 03983	RA	CH		4	3	01	19S	25E	552457	3616444*	1692	375	100	275
RA 01343	RA	ED	2	1	1	18	19S	26E	553777	3614525*	1821	440	69	371
RA 07066 POD2	RA	ED	4	4	1	05	19S	26E	555761	3617166*	1830	150		
RA 06986	RA	ED		1	4	05	19S	26E	556070	3616865*	2004	195	165	30
RA 07172	RA	ED		1	4	05	19S	26E	556070	3616865*	2004	210	95	115
RA 06588	RA	ED	4	3	4	05	19S	26E	556173	3616360*	2029	200		
RA 08557	RA	ED	2	1	4	05	19S	26E	556169	3616964*	2128	232	100	132
RA 07165	RA	ED		3	2	05	19S	26E	556065	3617269*	2147	193	110	83
RA 07508	RA	ED		3	2	05	19S	26E	556065	3617269*	2147	185	150	35
RA 10133	RA	ED		3	2	05	19S	26E	556065	3617269*	2147	177	138	39
RA 08098	RA	ED	3	1	2	05	19S	26E	555959	3617571*	2210	215	100	115
RA 08315	RA	ED	3	1	2	05	19S	26E	555959	3617571*	2210	195	100	95
RA 08567	RA	ED	1	4	4	05	19S	26E	556376	3616561*	2246	264	80	184
RA 07639	RA	ED		3	1	01	19S	25E	552049	3617250*	2296	260	172	88
RA 06129	RA	ED		4	4	05	19S	26E	556477	3616462*	2338	125	190	-65
RA 07260	RA	ED		1	2	05	19S	26E	556060	3617672*	2351	198	100	98
RA 12324 POD1	RA	ED	3	4	2	05	19S	26E	556339	3617207	2371	235	135	100
RA 12627 POD1	RA	ED	1	2	4	05	19S	26E	556415	3617007	2375	220	100	120
RA 07239	RA	ED		2	4	05	19S	26E	556472	3616866*	2393	191	100	91
RA 11633 POD1	RA	ED	2	1	2	05	19S	26E	556059	3617756	2400	180	130	50

***UTM location was derived from PLSS - see Help**

Average Depth to Water: **120 feet**

Minimum Depth: **69 feet**

Maximum Depth: **190 feet**

Record Count: 22

UTMNAD83 Radius Search (in meters):

Easting (X): 554144 **Northing (Y):** 3616309 **Radius:** 2415

Appendix C

CARDINAL Laboratories

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

August 22, 2019

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: ARABIAN 6 FEE # 6

Enclosed are the results of analyses for samples received by the laboratory on 08/21/19 12:00.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 1 (H902878-01)

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	08/21/2019	ND	1.79	89.7	2.00	0.0805	
Toluene*	<0.050	0.050	08/21/2019	ND	1.99	99.6	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/21/2019	ND	2.02	101	2.00	7.43	
Total Xylenes*	<0.150	0.150	08/21/2019	ND	6.15	102	6.00	7.61	
Total BTEX	<0.300	0.300	08/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	**352**	16.0	08/22/2019	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	08/21/2019	ND	204	102	200	0.808	
DRO >C10-C28*	<10.0	10.0	08/21/2019	ND	196	98.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/21/2019	ND					

Surrogate: 1-Chlorooctane *88.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *89.5 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 2 (H902878-02)

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	08/21/2019	ND	1.79	89.7	2.00	0.0805	
Toluene*	<0.050	0.050	08/21/2019	ND	1.99	99.6	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/21/2019	ND	2.02	101	2.00	7.43	
Total Xylenes*	<0.150	0.150	08/21/2019	ND	6.15	102	6.00	7.61	
Total BTEX	<0.300	0.300	08/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *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	**560**	16.0	08/22/2019	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	08/21/2019	ND	204	102	200	0.808	
DRO >C10-C28*	<10.0	10.0	08/21/2019	ND	196	98.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/21/2019	ND					

Surrogate: 1-Chlorooctane *94.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *98.9 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 3 (H902878-03)

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	08/21/2019	ND	1.79	89.7	2.00	0.0805	
Toluene*	<0.050	0.050	08/21/2019	ND	1.99	99.6	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/21/2019	ND	2.02	101	2.00	7.43	
Total Xylenes*	<0.150	0.150	08/21/2019	ND	6.15	102	6.00	7.61	
Total BTEX	<0.300	0.300	08/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *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	**704**	16.0	08/22/2019	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	08/21/2019	ND	204	102	200	0.808	
DRO >C10-C28*	<10.0	10.0	08/21/2019	ND	196	98.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/21/2019	ND					

Surrogate: 1-Chlorooctane *101 %* *41-142*

Surrogate: 1-Chlorooctadecane *107 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 4 (H902878-04)

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	08/21/2019	ND	1.79	89.7	2.00	0.0805	
Toluene*	<0.050	0.050	08/21/2019	ND	1.99	99.6	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/21/2019	ND	2.02	101	2.00	7.43	
Total Xylenes*	<0.150	0.150	08/21/2019	ND	6.15	102	6.00	7.61	
Total BTEX	<0.300	0.300	08/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**96.0**	16.0	08/22/2019	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	08/21/2019	ND	204	102	200	0.808	
DRO >C10-C28*	<10.0	10.0	08/21/2019	ND	196	98.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/21/2019	ND					

Surrogate: 1-Chlorooctane *108 %* *41-142*

Surrogate: 1-Chlorooctadecane *114 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 5 (H902878-05)

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	08/22/2019	ND	1.79	89.7	2.00	0.0805	
Toluene*	<0.050	0.050	08/22/2019	ND	1.99	99.6	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.02	101	2.00	7.43	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.15	102	6.00	7.61	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**688**	16.0	08/22/2019	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	08/21/2019	ND	204	102	200	0.808	
DRO >C10-C28*	<10.0	10.0	08/21/2019	ND	196	98.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/21/2019	ND					

Surrogate: 1-Chlorooctane *106 %* *41-142*

Surrogate: 1-Chlorooctadecane *112 %* *37.6-147*

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 6 (H902878-06)

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	08/22/2019	ND	1.79	89.7	2.00	0.0805	
Toluene*	<0.050	0.050	08/22/2019	ND	1.99	99.6	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.02	101	2.00	7.43	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.15	102	6.00	7.61	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *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	**48.0**	16.0	08/22/2019	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	08/21/2019	ND	204	102	200	0.808	
DRO >C10-C28*	<10.0	10.0	08/21/2019	ND	196	98.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/21/2019	ND					

Surrogate: 1-Chlorooctane *112 %* *41-142*

Surrogate: 1-Chlorooctadecane *120 %* *37.6-147*

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 7 (H902878-07)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *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	**480**	16.0	08/22/2019	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	08/21/2019	ND	204	102	200	0.808	
DRO >C10-C28*	<10.0	10.0	08/21/2019	ND	196	98.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/21/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 8 (H902878-08)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**368**	16.0	08/22/2019	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	08/21/2019	ND	204	102	200	0.808	
DRO >C10-C28*	<10.0	10.0	08/21/2019	ND	196	98.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/21/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *110 %* *37.6-147*

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 9 (H902878-09)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *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	**448**	16.0	08/22/2019	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	08/21/2019	ND	204	102	200	0.808	
DRO >C10-C28*	<10.0	10.0	08/21/2019	ND	196	98.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	08/21/2019	ND					

Surrogate: 1-Chlorooctane *95.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *103 %* *37.6-147*

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 10 (H902878-10)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**768**	16.0	08/22/2019	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	08/22/2019	ND	205	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	195	97.4	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *98.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *104 %* *37.6-147*

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DAKOTA NEEL
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ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 11 (H902878-11)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**688**	16.0	08/22/2019	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	08/22/2019	ND	205	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	195	97.4	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *101 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B 12 (H902878-12)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *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	**32.0**	16.0	08/22/2019	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	08/22/2019	ND	206	103	200	0.821	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	216	108	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *99.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *107 %* *37.6-147*

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DAKOTA NEEL
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ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 1 (H902878-13)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**352**	16.0	08/22/2019	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	08/22/2019	ND	206	103	200	0.821	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	216	108	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *111 %* *37.6-147*

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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 2 (H902878-14)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**352**	16.0	08/22/2019	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	08/22/2019	ND	206	103	200	0.821	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	216	108	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *69.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *70.5 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 3 (H902878-15)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *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	**352**	16.0	08/22/2019	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	08/22/2019	ND	206	103	200	0.821	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	216	108	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *95.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *103 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/21/2019	Sampling Date:	08/16/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 4 (H902878-16)

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	08/22/2019	ND	1.75	87.3	2.00	4.33	
Toluene*	<0.050	0.050	08/22/2019	ND	2.10	105	2.00	2.42	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.14	107	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.56	109	6.00	3.68	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *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	**176**	16.0	08/22/2019	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	08/22/2019	ND	206	103	200	0.821	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	216	108	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *96.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *107 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

1 OF 2

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	COG Operating LLC		**BILL TO**		
Project Manager:	Dakota Neel		**P.O. #:**		
Address:	2208 West Main		**Company:**	COG Operating LLC	
City:	Artesia	**State: NM** **Zip** 88210	**Attn:**	Robert McNeill	
Phone #:	(575) 746-2010	**Fax #:**	**Address:**	600 W Illinois	
Project #:		**Project Owner:**	**City:**	Midland	
Project Name:	ARABIAN 6 FEE #6		**State:** TX **Zip:** 79701		
Project Location:			**Phone #:**	(432) 221-0388	
Sampler Name:	Dakota Neel		**Fax #:**		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	Chloride
H902878 1	B 1	C	1			X					X		8-16	4:00			
2	B 2													9:05			
3	B 3													9:10			
4	B 4													9:15			
5	B 5													9:20			
6	B 6													9:25			
7	B 7													9:30			
8	B 8													9:35			
9	B 9													9:40			
10	B 10	↓	↓			↓					↓		↓	9:45			

ANALYSIS REQUEST

Relinquished By:	**Date:** 8-21-19	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 12:00.		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	REMARKS:
	Time:		RUSH

Delivered By: (Circle One) 2.8° #97 **Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No **CHECKED BY: (Initials)** TO

Sampler - UPS - Bus - Other: Corrected 3.2°

FORM-006 R 2.0

s. Please fax written changes to 575-393-2476

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	COG Operating LLC	**BILL TO**	
Project Manager:	Dakota Neel	**P.O. #:**	
Address:	2208 West Main	**Company:**	COG Operating LLC
City:	Artesia **State: NM** **Zip** 88210	**Attn:**	Robert McNeill
Phone #:	(575) 746-2010 **Fax #:**	**Address:**	600 W Illinois
Project #:	**Project Owner:**	**City:**	Midland
Project Name:	ARABIAN 6 FED #6	**State:** TX **Zip:**	79701
Project Location:		**Phone #:**	(432) 221-0388
Sampler Name:	Dakota Neel	**Fax #:**	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	TIME	BTEX	TPH	Chloride
H902878																	
11	B 11	C	1			X					X		8-6-19	9:50			
12	B 12													9:55			
13	S 1													10:00			
14	S 2													10:05			
15	S 3													10:10			
16	S 4	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10:15	↓	↓	↓

Relinquished By:	**Date:** 8-21-19	**Received By:**	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: 12:00		Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	REMARKS:	
	Time:			

Delivered By: (Circle One) 2.8° #97 **Sample Condition** Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No **CHECKED BY: (Initials)** TO

Sampler - UPS - Bus - Other: Corrected 3.2°

FORM-006 R 2.0

s. Please fax written changes to 575-393-2476

CARDINAL Laboratories

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

September 26, 2019

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: ARABIAN 6 FEE # 6

Enclosed are the results of analyses for samples received by the laboratory on 09/25/19 12:45.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	09/25/2019	Sampling Date:	09/24/2019
Reported:	09/26/2019	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE # 6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 3 (H903294-01)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**768**	16.0	09/26/2019	ND	416	104	400	0.00	

Sample ID: B 5 (H903294-02)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	09/26/2019	ND	416	104	400	0.00	

Sample ID: B 10 (H903294-03)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**864**	16.0	09/26/2019	ND	416	104	400	0.00	

Sample ID: B 11 (H903294-04)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1120**	16.0	09/26/2019	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	COG Operating LLC
Project Manager:	Dakota Neel
Address:	2208 West Main
City:	Artesia **State:** NM **Zip** 88210
Phone #:	(575) 746-2010 **Fax #:**
Project #:	**Project Owner:**
Project Name:	ARABIAN 6 FED #6
Project Location:	
Sampler Name:	Dakota Neel

BILL TO

P.O. #:	
Company:	COG Operating LLC
Attn:	Jennifer Knowlton
Address:	600 W Illinois
City:	Midland
State: TX **Zip:** 79701
Phone #:	(432) 221-0388
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	Chloride
H903294																	
1	B 3	C				1					1		9-24-19	3:00 PM			X
2	B 5	C				1					1			3:05PM			X
3	B 10	C				1					1			3:10PM			X
4	B 11	C				1					1			3:15PM			X

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

Relinquished By:	**Date:** 9-25-19	**Received By:**	
	Time: 11:47		
Relinquished By:	**Date:** 9.25.19	**Received By:**	
	Time: 12:45		
Delivered By: (Circle One) 4.6°	#197	**Sample Condition** Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	**CHECKED BY: (Initials)** T.O.
Sampler - UPS - Bus - Other: Corrected 5.0°			

Phone Result:	☐ Yes	☐ No	**Add'l Phone #:**
Fax Result:	☐ Yes	☐ No	**Add'l Fax #:**
REMARKS:			

RUSH

FORM-006 R 2.0

s. Please fax written changes to 575-393-2476

CARDINAL Laboratories

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

October 22, 2020

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: ARABIAN 6 FEE #006

Enclosed are the results of analyses for samples received by the laboratory on 10/21/20 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE #006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 3 - 2' (H002813-01)

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	10/22/2020	ND	416	104	400	3.92	

Sample ID: B 3 - 3' (H002813-02)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: B 10 - 2' (H002813-03)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: B 10 - 3' (H002813-04)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/22/2020	ND	416	104	400	3.92	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	ARABIAN 6 FEE #006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 11 - 3' (H002813-05)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: B 11 - 4' (H002813-06)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/22/2020	ND	416	104	400	3.92	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	COG Operating LLC
Project Manager:	Dakota Neel
Address:	2208 West Main
City:	Artesia State: NM Zip 88210
Phone #:	(432) 215-2783 Fax #:
Project #:	Project Owner:
Project Name:	ARABIAN 6 FEE #006
Project Location:	
Sampler Name:	Dakota Neel

BILL TO

P.O. #:	
Company:	COG Operating LLC
Attn:	Jennifer Knowlton
Address:	600 W Illinois
City:	Midland
State: TX	Zip: 79701
Phone #:	(432) 221-0388
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		BTEX	TPH	Chloride									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
H002818	TO 10/21/20																									
1	B3 - 2'	C	1			X					X		10-16-20	1:30 PM			X									
2	B3 - 3'	C	1			X					X			1:35			X									
3	B10 - 2'	C	1			X					X			1:45			X									
4	B10 - 3'	C	1			X					X			1:50			X									
5	B11 - 3'	C	1			X					X			2:00			X									
6	B11 - 4'	C	1			X					X			2:05			X									

Relinquished By:	Date: 10-21-20	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Dakota Neel	Time: 1640		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: RUSH
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 3.6c #113

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) TO

FORM-006 R 2.0

s. Please fax written changes to 575-393-2476

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 10823

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	229137	10823	C-141

OCD Reviewer	Condition
ceads	None