Received by OCD: 4/11/2023 2:06:19 PM



[Dakota Neel] [HSE Coordinator]

December 31, 2018

Mike Bratcher Oil Conservation Division, District 2 811 S First St. Artesia, NM 88210

Ryan Mann New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88240

Re: Closure Letter Munnynthabank State Com #002H API #: 30-015-40622 RP#: 2RP-4456 Unit Letter B Section 34, Township 24S, Range 27E Eddy County, NM

Mr. Bratcher/Mr. Mann,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure report for the Munnynthabank State Com #002H. This release occurred on October 21, 2017. Following the release an assessment of impacted soils was conducted. A remediation work plan was submitted to and subsequently approved by the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO). A copy of the approved work plan is attached.

### BACKGROUND

The Munnynthabank State Com #002H release is located in Unit Letter B, Section 34, Township 24 South, and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for this release are 32.1803627 North and -104.1771088 West.

On October 21, 2017, a one (1) inch valve on the murphy switch failed resulting in the release of approximately two (2) barrels (bbls) of oil and three (3) bbls of produced water. All of the fluid remained on location and a vacuum truck was able to recover approximately two (2) bbls of oil and two & one-half (2.5) bbls of produced water.

December 31, 2018

### **REMEDIAL ACTIONS**

- The impacted area in the vicinity of sample location T-1 was excavated to the depth of four and one-half (4.5) feet BGS.
- The impacted area in the vicinity of sample location T-2 was excavated to the depth of one (1) foot BGS.
- The impacted area in the vicinity of sample location T-4 was excavated to a depth of two (2) feet BGS.
- All of the excavated material was transported to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with caliche and contoured to match the surrounding location.

MUNNYNTHABANK STATE #2								
		Chloride	Benzene	BTEX	ТРН			
Sample ID	Date	mg/Kg	mg/Kg	mg/Kg	mg/Kg			
T1-BTM	6/22/2019	144	-	-	-			
T1 North	6/22/2019	160	-	-	-			
T1-South	6/22/2018	160	-	-	-			
T1 West	6/22/2019	176	-	-	-			
T2-BTM	6/22/2018	144	-	-	-			
T2 North	6/22/2019	160	-	-	-			
T2 South	6/22/2018	160	-	-	-			
T2 East	6/22/2019	144	-	-	-			
T4-BTM	6/22/2019	160	-	-	-			
T4 North	6/22/2019	160	-	-	-			
T4 South	6/22/2018	128	-	-	-			
T4 East	6/22/2019	208	-	-	-			
T1/T4	6/22/2019	64	-	_	-			
T1/T2	6/22/2018	144	-	-	-			
T2/T4	6/22/2019	176	-	-	-			

### **CONFIRMATION SAMPLES**

December 31, 2018

### **CLOSURE REQUEST**

COG Operating, LLC respectfully requests closure approval for the Munnynthabank State Com #002H (2RP-4456).

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Deator New

Dakota Neel HSE Coordinator

Enclosed:

Appendix I: Site Diagram Appendix II: Initial C-141 (Copy) Appendix III: Final C-141 Appendix IV: Work Plan (Copy) Appendix V: Analytical Reports and Chain-of-Custody Forms



### Received by OCD: 4/11/2023 2:06:19 PM Munnynthabank State Com #002H

API #: 30-015-40622 RP#: 2RP-4456 Unit Letter B Section 34, Township 24S, Range 27E Eddy County, NM







### State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised April 3, 2017

•

Oil Conservation Division 1000.0 41 04 1 1 10

Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC.

District IV 1220 S. St. Fra	ncis Dr., Santa	Fe, NM 87505				n St. Franc e, NM 875	-	3)				
			Rele	ase Notific		·		ction	1			
						<b>OPERA</b>	ΓOR		🛛 Initia	al Report		Final Report
				COGRID# 229			bert McNeill			•		
				nd TX 79701 Com #002H			No.: 432-683-74					
Surface Ov	vner: State			Mineral C	)wner:	State			API No	.: 30-015-4	0622	
00.1000 01				I		N OF REI	FASE					
Unit Letter B	Section 34	Township 24S	Range 27E	Feet from the 190	North	/South Line North	Feet from the 2260		Vest Line East	County	Eddy	,
			Lat	titude:32.18036				<b>D83</b>				
Type of Rele	ease: Oil and	Produced Wa	ıter	INAI	UKE	OF REL	Release:	1		Recovered:		
Source of Ro	elease: 1-inch	n valve			_		nd 3bbls PW lour of Occurrence	e:		and 2.5bbls Hour of Dis		
						10/21/17			10/21/17			
Was Immedi	iate Notice G	_	Yes 🛛	No 🛛 Not Re	equired	If YES, To	Whom?					
By Whom?		1 10				Date and Hour:						
Was a Water	course React		Yes 🛛	No		If YES, Volume Impacting the Watercourse.						
If a Waterco	urse was Imp	pacted, Descri	be Fully.*									
Describe Ca	use of Proble	m and Reme	fial Action	1 Takan *								
				rphy switch faile	d. The v	alve was repl	aced.					
Describe Are	ea Affected a	nd Cleanup A	ction Tak	en.*								
				truck was dispate a remediation we								ed for any
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.												
OIL CONSERVATION DIVISION												
Signature: Heldon Alin												
Printed Name: Sheldon L. Hitchcock Approved by Environmental Specialist:												
Title: HSE C	oordinator					Approval Dat	e:	E	Expiration I	Date:		
E-mail Addr	ess: slhitchco	ock@concho.	com			Conditions of	Approval:			Attached		
Date: 10/23/		ts If Necess		none: 575-746-20	10	-						
Autori Auto	anonai Slice	13 11 14CCC55	чу									

### **APPENDIX III**

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Page 9 of 35

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

	Salita I	re, INIVI 87303						
<b>Release Notification and Corrective Action</b>								
		<b>OPERATOR</b>	Initial Report	Final Report				
Name of Company: COG Operating, LLC (OC	GRID# 229137)	Contact: Robert McNeill						
Address: 600 West Illinois Avenue, Midland T	Telephone No.: 432-683-7443							
Facility Name: MUNNYNTHABANK St. Com #002H		Facility Type: Tank Battery						
Surface Owner: State	Mineral Owner	: State	API No.: 30-015-4	0622				

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
В	34	24S	27E	190	North	2260	East	Eddy

Latitude:32.1803627 Longitude:-104.1771088 NAD83

### NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 2bbls oil and 3bbls PW	Volume Recovered: 2bbls oil and 2.5bbls PW						
Source of Release: 1-inch valve	Date and Hour of Occurrence: 10/21/17	Date and Hour of Discovery: 10/21/17 8:30am						
Was Immediate Notice Given?	If YES, To Whom?							
By Whom?	Date and Hour:							
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.						
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.*								
A bad 1-inch valve on pumping T behind the murphy switch failed. The v	alve was replaced.							
Describe Area Affected and Cleanup Action Taken.*								
All of the fluid remained on location. A vacuum truck was dispatched to recover all freestanding fluids. Following the release COG had the site evaluated and drafted a remediation work plan that was subsequently approved by the NMOCD and NMSLO. The remediation was carried out in accordance with the approved work plan.								
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report defederal, state, or local laws and/or regulations.	otifications and perform corrective act e NMOCD marked as "Final Report" of e contamination that pose a threat to g	tions for releases which may endanger does not relieve the operator of liability round water, surface water, human health						
	OIL CONSERV	ATION DIVISION						
Signature: Printed Name: Dakota Neel	Approved by Environmental Specialis							
Title: HSE Coordinator	Approval Date: 4/19/2023	Expiration Date: N/A						
0	Conditions of Approval: Closed per previous rules in accordance							
Date: 10/24/2018 Phone: 575-746-2010	vith approved workplan.							

\* Attach Additional Sheets If Necessary

## **APPENDIX IV**

Received by OCD: 4/11/2023 2:06:19 PM



[Sheldon L. Hitchcock] [HSE Coordinator]

February 23, 2018

Mike Bratcher Oil Conservation Division, District 2 811 S First St. Artesia, NM 88210

Mark Naranjo New Mexico State Land Office 1001 S. Atkinson Roswell, NM 88230

Re: Work Plan Munnynthabank State Com #002H API #: 30-015-40622 RP#: 2RP-4456 Unit Letter B Section 34, Township 24S, Range 27E Eddy County, NM

Mr. Bratcher/Mr. Naranjo,

COG Operating, LLC (COG) is pleased to submit for your consideration the following remediation work plan for the Munnynthabank State Com #002H. This plan is in response to an oil and produced water release that occurred on October 21, 2017. Subsequent to the release a C-141 initial report was submitted to the New Mexico Oil Conservation Division (NMOCD) on October 23, 2017.

### BACKGROUND

The Munnynthabank State Com #002H release is located in Unit Letter B, Section 34, Township 24 South, and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for this release are 32.1803627 North and -104.1771088 West.

On October 21, 2017, a one (1) inch valve on the murphy switch failed resulting in the release of approximately two (2) barrels (bbls) of oil and three (3) bbls of produced water. All of the fluid remained on location and a vacuum truck was able to recover approximately two (2) bbls of oil and two & one-half (2.5) bbls of produced water.

On November 30, 2017, a site assessment and soil sampling were conducted in order to define the impacted area. A site diagram is included in Appendix I. The analytical results from the soil sampling activities are summarized in the table below.

February 23, 2018

### **GROUNDWATER AND SITE RANKING**

According to the New Mexico Office of the State Engineer (NMOSE) groundwater in the project vicinity is approximately seventy (70) feet below ground surface (BGS) (Appendix II). No water well or surface water was observed within one-thousand (1,000) feet of the release site. Therefore the site ranking for this release is ten (10) based on the following:

Depth to groundwater	50-100-feet
Distance to surface water body	>1000-feet
Wellhead Protection Area	>1000-feet

### **Analytical Results**

<b>Sample ID</b>	Depth	Benzene	Total	Chloride	Total
Sumple ID	(feet)	(mg/kg)	BTEX	(mg/kg)	TPH
	(2000)	(8/8/	(mg/kg)	(8/8/	(mg/kg)
<b>T-1</b>	0	< 0.002	< 0.002	5410	725
<b>T-1</b>	1	< 0.002	< 0.002	826	<15.0
<b>T-1</b>	2	< 0.002	< 0.002	870	<15.0
T-1	3			704	
<b>T-1</b>	4			647	
T-2	0	< 0.100	3.74	9290	8720
<b>T-2</b>	1	< 0.002	< 0.002	77.1	<15.0
T-2	2	< 0.002	< 0.002	160	<15.0
<b>T-2</b>	3			171	
T-2	4			275	
<b>T-2</b>	5			263	
T-2	6			213	
T-3	0	< 0.002	< 0.002	195	28
T-3	1	< 0.002	< 0.002	<4.91	<15.0
T-3	2	< 0.002	< 0.002	<4.93	<15.0
<b>T-3</b>	3			<4.93	
<b>T-3</b>	4			6.23	
T-4	0	< 0.002	< 0.002	2080	<15.0
<b>T-4</b>	1	< 0.002	< 0.002	650	<15.0
<b>T-4</b>	2	< 0.002	< 0.002	290	<15.0
<b>T-4</b>	3			220	

### 11/30/2017

11/30/2017 C	Continued				
Sample ID	Depth (feet)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	Total TPH (mg/kg)
<b>T-4</b>	4			260	
<b>T-4</b>	5			183	
<b>T-4</b>	7			221	
<b>T-4</b>	9			190	
T-4	11			227	

(--) Analysis not requested

### **PROPOSED REMEDIAL ACTIONS**

- The impacted area in the vicinity of sample location T-1 will be excavated to the depth of four and one-half (4.5) feet BGS.
- The impacted area in the vicinity of sample location T-2 will be excavated to the depth of one (1) foot BGS.
- The impacted area in the vicinity of sample location T-4 will be excavated to a depth of two (2) feet BGS.
- All of the excavated material will be transported to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with caliche and contoured to match the surrounding location.

February 23, 2018

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Sheldon gittam

Sheldon L. Hitchcock HSE Coordinator <u>slhitchcock@concho.com</u>

Enclosed:

Appendix I: Site Diagram Appendix II: Groundwater Data Appendix III: Initial C-141 (Copy) Appendix IV: Analytical Reports and Chain-of-Custody Forms





July 06, 2018

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MUNNY NTHA BANK ST COM #2

Enclosed are the results of analyses for samples received by the laboratory on 07/02/18 11:40.

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

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T1 - BTM (H801811-01)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.8-14	2						
Chloride, SM4500Cl-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	07/05/2018	ND	416	104	400	3.92	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	80.9	% 41-142							
Surrogate: 1-Chlorooctadecane	83.9	% 37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T2 - BTM (H801811-02)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 69.8-14	2						
Chloride, SM4500Cl-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	07/05/2018	ND	416	104	400	3.92	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	77.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane	81.8	% 37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T4 - BTM (H801811-03)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/05/2018	ND	416	104	400	3.92	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	85.3	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T1 / T4 (H801811-04)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/05/2018	ND	416	104	400	3.92	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	88.9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	94.6	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T1 / T2 (H801811-05)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.8-14	2						
Chloride, SM4500Cl-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	07/05/2018	ND	416	104	400	3.92	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	76.5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	80.4	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T2 / T4 (H801811-06)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/05/2018	ND	416	104	400	3.92	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	85.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.6	% 37.6-14	7						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T1 - NORTH (H801811-07)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/05/2018	ND	416	104	400	3.92	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	85.3	% 37.6-14	7						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T1 - SOUTH (H801811-08)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/05/2018	ND	416	104	400	3.92	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	80.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	83.8	% 37.6-14	7						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T1 - WEST (H801811-09)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/05/2018	ND	416	104	400	3.92	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	80.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	85.3	% 37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T2 - NORTH (H801811-10)

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	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/05/2018	ND	416	104	400	3.92	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	75.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	78.1	% 37.6-14	7						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T2 - SOUTH (H801811-11)

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	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/05/2018	ND	416	104	400	3.92	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	72.5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	76.1	% 37.6-14	7						

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### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T2 - EAST (H801811-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.8-14	2						
Chloride, SM4500Cl-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	07/05/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	73.1	% 41-142	2						
Surrogate: 1-Chlorooctadecane	77.1	% 37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T4 - NORTH (H801811-13)

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	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/05/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	86.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane	90.2	% 37.6-14	7						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T4 - SOUTH (H801811-14)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.8-14	2						
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	07/05/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	77.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	82.4	% 37.6-14	7						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/02/2018	Sampling Date:	06/22/2018
Reported:	07/06/2018	Sampling Type:	Soil
Project Name:	MUNNY NTHA BANK ST COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: T4 - EAST (H801811-15)

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	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/05/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	70.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	73.9	% 37.6-14	7						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393-2476	.76						
Company Name:	COG Operating LLC		BILL TO				ANALYSIS RECHEST	
Project Manager:	Dakota Neel	.9	P.O. #:		_	_	- 1	
Address: 2407	2407 Pecos Avenue	Co	Company: COG Operating LLC	ating LLC				
City: Artesia	State: NM	Zip 88210 Attn:		Neill				
Phone #:	(575) 746-2010 Fax #:	Ad	Address: 600 W Illinois	llinois				
Project #:	Project Owner:	: City:		۵				
Project Name:	MUNNY NTHABANK	ST CON #2 St	State: TX Zip: 79701	2				
Project Location:		Ph	#: (432		_			_
Sampler Name:	Dakota Neel	Fa	Fax #:		_			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ING				
Lab I.D.	Sample I.D.	B)RAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL L .UDGE THER :	CID/BASE: E / COOL THER :	ΈX		lloride		
	·TI-BTM	×	× 1	LOSODAM :	/	Y		
12	.TZ = 87M	*	×	-	X	× ×		
3	.74 - BTM	X	У		X	<b>x</b> \$		
f	. 71/74	×	×		¥	×		
Ś	T	X	*		X	X		
le	.72/ 74	X	×		×	*		
2	·TI · North	×	×		X	x		
4	+1-5-0TH	×	×		X	×		
Q	71- WEST	×	*	4	\$	×		
analyses. All claims including t service. In no event shall Cardi affiliates or successors arising c	analyses. All claims including those for negligence and any other cause whatsever shall be demed waived unless made in writing and received by Cardinal which is the amount paid by the client for the service. In no event shall Cardinal be liable for inclidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substaines, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal whether such Jaime is hesed upon any of the other substaines.	y claim arising whether based in contract or tor, eerned waived unless made in writing and receir without limitation, business interruptions, loss of rdinal regardless of whether such claim is base	, shall be limited to the amount paid ved by Cardinal within 30 days after use, or loss of profits incurred by c	d by the client for the r completion of the app lient, its subsidiaries,	licable			L
Kellinguished By:	Date:	Received By:	11/11	Phone Result: Fax Result:		□ Yes □ No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	۲ ۱/2 Timp: // ۲	Received By:	Maple y	REMARKS: dneel2@concho.com	icho.c			
Delivered By: (Circle One	Time:		CHECKED BY:			Stop runnii	Stop running Chlorides when <600 ma/ka	
Sampler - UPS -	Bus - Other: 4.2ct 4.	YHSC Cool Intact	(Initials)	5		1 - h	- h. 0	
	2.0			Contract		se o o c	sur o care o care	

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	1				
Company Name:	COG Operating LLC		BILL TO		ANALYSIS REQUEST
Project Manager:	Dakota Neel		P.O. #:	-	
Address: 2407	2407 Pecos Avenue		Company: COG Operating LLC	g LLC	
City: Artesia	State: NM	Zip 88210		=	
Phone #:	(575) 746-2010 Fax #:		Address: 600 W Illinois	ις.	
Project #:	Project Owner:		City: Midland		
Project Name:	MUNNINTHABANK :	ST com #2	State: TX Zip: 79701		
Project Location:			#: (432		
Sampler Name:	Dakota Neel		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		
		RS TER			
Lab I.D.	Sample I.D.	)RAB OR (( CONTAINE) ROUNDWA ASTEWATE DIL L UDGE		EX H	loride
ID	.TZ - NORTH	1 1 2 2	x 6-12-18	1.	× 0
2	TZ - SOUTH	×	X j		×
17	·JZ - EAST	×		× × ×	
12	.T4- NONTH	×	×	X X X	*
ich	T9-SOUTH	X	×	¥ ¥ ¥	<i>y</i>
U	·74- 8457	×	*	r x x	×
analyses. All claims including t service. In no event shall Cardi affiliates or successors arising o	analyses. All claims including those or regigence and any other cause whosever shall be demnet waived united united or ion shall be limited to the amount pad by the client of the service. In no event shall Cardinal be lable 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.	emed waived unless made in contract o emed waived unless made in writing and tithout limitation, business interruptions, lo dinal, regardless of whether such claim is	<ul> <li>rort, snail be limited to the amount paid by the received by Cardinal within 30 days after com ss of use, or loss of profits incurred by client, based upon any of the above stated reasons</li> </ul>	ne client for the pletion of the applicable its subsidiaries, s or otherwise.	
Kellinguisned By:	Date:	Received By:	M/ / Ph	Phone Result:   Yes Fax Result:  Yes	No Add'l Phone #:
Relinquished By:	Time: //:4/0.4./ Date:	Received By:	Children on	onch	⊔ No Add'i Fax #:
Delivered By: (Circle One)	Circle One) U.S. U.L	Sample Condition	유	Sto	Stop-running-Chlorides_when_<600_mg/kg
Sampler - UPS - Bu	s - Other:		(Initials)	Sampl	Samples have head space

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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	206423
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created	Condition	Condition
By		Date
bhall	Closed per previous rules in accordance with approved workplan.	4/19/2023

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Action 206423