

November 2, 2018

Olivia Yu and Christina Hernandez Oil Conservation Division, District 1 1625 N. French Dr. Hobbs, NM 88240

Ryan Mann New Mexico State Land Office 1001 S. Atkinson Roswell, NM 88230

Re: Work Plan Osprey 20 State Com 3H API #: 30-025-40969 RP#: 1RP-5158 GPS: 32.463732, -103.494739 Unit Letter K, Section 20, Township 21S, Range 34E Lea County, NM

Ms. Yu/Mr. Mann,

COG Operating, LLC (COG) is pleased to submit the following remediation work plan in response to a release that occurred at the Osprey 20 State Com 3H located in Unit Letter K, Section 20, Township 21 South and Range 34 East in Lea County, New Mexico.

BACKGROUND

The release was discovered on August 10, 2018 and a C-141 initial report was submitted and approved by the New Mexico Oil Conservation Division (NMOCD). The release occurred from the packing from the oil dump failed allowing the tanks to overflow and sprayed oil out of the flare. The area around the flare was impacted and had some overspray in the pasture. Approximately five (5) barrels of oil were released from the flare and recovered one (1) barrel of oil. The initial C-141 is shown in Appendix A.

GROUNDWATER AND REGUALTORY FRAMEWORK

According to the New Mexico Office of the State Engineer (NMOSE) groundwater in the project vicinity is approximately >100' below ground surface (BGS) (Appendix B). The Chevron trend map shows the depth in the Section 20 between 50'-100'below surface. The USGS groundwater data shows wells in Section 8 and 28 with depth to water of 101' and 136', respectively.

A risk based evaluation and site determinations were perform 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

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701 | P 432.683.7443 | F 432.683.7441

evaluation, a playa is located near the site, which change the remediation criteria if it occurred less than 50 feet to ground water.

No other receptors (water wells, water course, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the site. The delineation and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
Playa in the area	>50-100 feet

Delineation and Closure Criteria:

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

PROPOSED WORK PLAN

- The area of AH-1 on the pad will be excavated to a depth of approximately 0.5' below surface.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with clean "backfilled material.

SAMPLING PLAN

Once the excavation is complete, soil confirmation samples will be collected from the excavated areas. To collect representative samples, composite samples (5-point composite) will be collected every 200 square feet for the final confirmation sampling for the constituents of concern. Discrete soil samples will be collected from the excavation if any "hot spots" are encountered during the excavation.

REMEDIATION TIMEFRAME AND ESTIMATED VOLUME

The remediation will be performed 90 days after the work plan has been approved. Approximately 15-20 cubic yards of impacted soil will be excavated from the impacted area and hauled top proper disposal.

SITE RECLAMATION AND RESTORATION

All of the samples in the pasture are below the RALs for TPH and BTEX and below the 600 mg/kg chloride threshold and does not require any reclamation.

Should you have any questions or concerns on the proposed remediation activities, please do not hesitate to contact me.

Sincerely, Concho Operating, LLC

475 6

Ike Tavarez, P. G. Senior HSE Supervisor itavarez@concho.com

Figures

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Tables

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Table 1 COG Operating LLC. Osprey 20 Com 3H Lea County, New Mexico

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!	Sample	Sample	Soil	Status				PH (mg/k	(6			Benzene	Total BTEX	Chloride
	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)
Average Depth to Groun	dwater (ft) >10	00' Locatio	n Near Pl	aya										
NMOCD RAL Limits (mg	/kg)							100				10	50	600
1-HA	8/21/2018	0-0.5	×		27.6	233	<15.0	261				<0.001	<0.001	236
		0.5-1.0			<15.0	18.0	<15.0	18.0	,		-			
AH-2	8/23/2018	0-0.5	×		<15.0	59.4	<15.0	59.4	,			<0.00199	<0.00199	21.3
AH-3	8/23/2018	0-0.5	Х		<15.0	<15.0	<15.0	<15.0	,		-	<0.00202	<0.00202	<5.00
4-HA	8/23/2018	0-0.5	Х		<15.0	16.5	<15.0	16.5	,		-	<0.00202	<0.00202	15.9
AH-5	8/23/2018	0-0.5	×		<15.0	<15.0	<15.0	<15.0				<0.00200	<0.00200	31.1

Proposed Excavation Depth
(-) Not Analyzed

Total BTEX Chloride (mg/kg) (mg/kg)

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Appendix A

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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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.

Release Notification and Corrective Action

		OPERATO	R	Initial Report	Final Report
Name of Company: COG Operating LLC (OGR	ID #229137)	Contact:	Robert McNeill		
Address: 600 West Illinois Avenue, Midland	Telephone No.	432-683-7443			
Facility Name: Osprey 20 State Com #003H	Facility Type:	Tank Battery			
Surface Owner: State	face Owner: State Mineral Owner			API No. 30-025-4	40969

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	20	21S	34E					Lea

Latitude 32.463732 Longitude -103.494739 NAD83

NATURE OF RELEASE

Type of Release:	Volume of Release:	Volume Recovered:						
Oll Source of Poleose	5 001.	1 001.						
Valve Failure	August 10, 2018 9:36am	August 10, 2018 9:36am						
Was Immediate Notice Given?	If YES, To Whom?							
🗌 Yes 🛛 No 🖾 Not Required	1							
By Whom?	Date and Hour:							
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	rcourse.						
If a Watercourse was Impacted, Describe Fully.*	RECEIVED By Olivia Yu at 10:	51 am, Aug 20, 2018						
Describe Cause of Problem and Remedial Action Taken.*								
Packing in the oil dump caused it to fail allowing the tanks to overflow an	d spray out of the flare.							
Describe Area Affected and Cleanup Action Taken.*								
The release was within a pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.								
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to 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 forderal state, or local laws and/corrective.								
	OIL CONSERV	ATION DIVISION						
Signature: Deann Organit Printed Name: DeAnn Grant	Approved by Environmental Specialist:							
Title: HSE Administrative Assistant	Approval Date: 8/20/2018	Expiration Date:						
E-mail Address: agrant@concho.com Date: August 13, 2018 Phone: 432-253-4513	Conditions of Approval: See NMAC 19.15.29 for	Attached						
Attach Additional Sheets If Necessary nOY1823239315 pOY1823239504	conditions. Please be advised that release characterization must be completed before any							

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Received by OCD: 12/1/2022 9:42:15 AM State of New Mexico

Oil Conservation Division

1RP 5158

Facility ID Application ID

Incident ID

District RP

Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data

Page 3

- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 12/1/202	22 9:42:15 AM			Page 12 of 45
Form C-141			Incident ID	
Page 4 Oil Conservation D		1	District RP	1RP 5158
			Facility ID	
			Application ID	
I hereby certify that the infor regulations all operators are a public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: <u>Ike Tavare</u> Signature: email: <u>_itavarez@concho.</u>	mation given above is true and complete to the required to report and/or file certain release not nent. The acceptance of a C-141 report by the tet and remediate contamination that pose a the contamination that pose at the contamination of a C-141 report does not relieve the operator of a C-141 report does not reliev	te best of my knowledge a otifications and perform co e OCD does not relieve the meat to groundwater, surfa of responsibility for comp Title: <u>Senior HSE Su</u> Date: <u>10/24</u> Telephone: 432 <u>-683-</u>	nd understand that purs prrective actions for rele e operator of liability sh ice water, human health liance with any other fe pervisor 4/18 7443	uant to OCD rules and eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

Received by OCD: 12/1/2022 9:42:15 AM State of New Mexico

Incident ID	
District RP	1RP 5158
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist:</u> 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 \boxtimes 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: Ike Tavarez Title: Senior HSE Supervisor 0475_____ Date:_____ Signature: Telephone: <u>432-683-7443</u> email: i<u>tavarez@concho.com</u> **OCD Only** Date: Received by: Approved with Attached Conditions of Approval Approved Denied Deferral Approved uttan Hall Date: 12/1/2022 Signature:

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Oil Conservation Division

Incident ID	
District RP	1RP 5158
Facility ID	
Application ID	

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Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the followi	ing items must be included in the closure report.							
A scaled site and sampling diagram as described in 19.15.29.11 NMAC								
Photographs of the remediated site prior to backfill or phomust be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office							
Laboratory analyses of final sampling (Note: appropriate	ODC District office must be notified 2 days prior to final sampling)							
Description of remediation activities								
I hereby certify that the information given above is true and cor and regulations all operators are required to report and/or file ce may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or re restore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the Printed Name:	mplete to the best of my knowledge and understand that pursuant to OCD rules ertain release notifications and perform corrective actions for releases which we of a C-141 report by the OCD does not relieve the operator of liability d remediate contamination that pose a threat to groundwater, surface water, e of a C-141 report does not relieve the operator of responsibility for egulations. The responsible party acknowledges they must substantially the occli the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete. Title:							
Signature:	Date:							
email:	Date: Telephone:							
OCD Only								
Received by:	Date:							
Closure approval by the OCD does not relieve the responsible p remediate contamination that poses a threat to groundwater, surf party of compliance with any other federal, state, or local laws a	party of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.							
Closure Approved by	Data							

 Closure Approved by:
 Date:

 Printed Name:
 Title:

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Appendix B

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

(A CLW##### in the POD suffix indicates the POD has been replaced	(R=POD has been replaced, O=orphaned,	1										
& no longer serves a water right file.)	C=the file is closed)	(quar (quar	ters ters	are are	1=N\ smal	W 2=N lest to	IE 3=SW largest)	/ 4=SE) (NAD8	3 UTM in meters)		(In feet)	
POD Number	POD Sub- Code basin C	ounty	Q (64 1	ຊ ດ 6 4	Sec	: Tws	Rng	Х	Y	Depth Well	Depth Water C	Water Column
CP 00089	O CP	LE	2	2 1	13	21S	34E	647840	3594615 🌍	235		
CP 00092 POD1	CP	LE	1 3	3 1	25	21S	34E	647479	3591694* 🌍	196		
<u>CP 00489</u>	СР	LE			04	21S	34E	643274	3597749* 🌍	125	95	30
<u>CP 00498</u>	СР	LE	2	2 4	08	21S	34E	642287	3595932* 🌍	145	120	25
CP 00571 POD1	СР	LE	3	34	28	21S	34E	643500	3591063 🌍	170	135	35
<u>CP 00583</u>	СР	LE		3	21	21S	34E	642944	3592518* 🌍	171	128	43
CP 00588 POD1	СР	LE	3	3 2	33	21S	34E	643583	3589918* 🌍	89		
CP 00589 POD1	CP	LE	3	3 2	33	21S	34E	643583	3589918* 🌍	84		
CP 00590 POD1	CP	LE			01	21S	34E	648099	3597829* 🌍	79		
<u>CP 00611</u>	CP	LE	2	2 1	06	21S	34E	639838	3598306* 🌍	118	112	6
CP 00791	CP	LE	4 2	2 4	06	21S	34E	640754	3597413* 🌍	85	55	30
CP 01066 POD1	CP	LE	4 3	3 2	28	21S	34E	643735	3591345 🌍	210	140	70
CP 01067 POD1	СР	LE	1 3	34	28	21S	34E	643447	3591434 🌍	210	140	70
CP 01068 POD1	CP	LE	4 ~	4	28	21S	34E	643610	3591005 🌍	180	140	40
CP 01069 POD1	СР	LE	2 ´	4	28	21S	34E	643738	3591191 🌍	210	140	70
CP 01091 POD1	CP	LE	3 3	3 2	28	21S	34E	643447	3591434 🌍	200	140	60
CP 01364 POD1	СР	LE	4 2	2 3	16	21S	34E	643147	3594331 🌍	165	105	60
CP 01366 POD1	СР	LE	4 4	1	16	21S	34E	643196	3594698 🌍	180	110	70
CP 01671 POD1	СР	LE	2 4	1	16	21S	34E	643108	3594887 🌍	157		
									Average Depth to	Water:	120 fe	et
									Minimum	Depth:	55 fe	et
									Maximum	Depth:	140 fe	et
Record Count: 19												

Record Count. 18

PLSS Search:

Township: 21S Range: 34E

*UTM location was derived from PLSS - see Help

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

9/7/18 9:24 AM

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National Water Information System: Web Interface USGS Water Resources

Data Category: Geographic Art hic Area Groundwater ✓ GO

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322650103281801

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

USGS 322650103281801 21S.34E.28.413232

Available data for this site Groundwater: Field measurements V GO Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°26'51", Longitude 103°28'24" NAD27 Land-surface elevation 3,728.00 feet above NGVD29 The depth of the well is 170 feet below land surface. This well is completed in the Ogallala Formation (1210GLL) local aquifer. Output for

	Cuchat Ionnata
Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph



https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=322650103281801&agency_cd... 9/7/2018

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National Water Information System: Web Interface USGS Water Resources

Data Category:	Geographic Area:	
Groundwater 🗸	New Mexico 🗸	GO

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Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322738103263701

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

USGS 322738103263701 21S.34E.23.31000

Available data for this site Groundwater: Field measurements GO Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°27'45.6", Longitude 103°26'49.4" NAD83 Land-surface elevation 3,715 feet above NAVD88 The depth of the well is 5,390 feet below land surface. This well is completed in the Capitan Limestone (313CPTN) local aquifer. Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/?site_no=322738103263701&agency_cd... 9/7/2018

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Canundurates	 New Meulee	11	00

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Search Results -- 1 sites found

Agency code = usgs site_no list = • 322916103291101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322916103291101 21S.34E.08.42341

Available data for this site Groundwater: Field measurements V GO Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°29'16", Longitude 103°29'11" NAD27 Land-surface elevation 3,719 feet above NAVD88 The depth of the well is 120 feet below land surface. This well is completed in the Ogallala Formation (1210GLL) local aquifer. Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/?site_no=322916103291101&agency_cd... 9/7/2018

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National Water Information System: Web Interface

Data Category:		Geographic Area:			
Groundwater	V	New Mexico	~	GO	

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list = • 323022103285301

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

USGS 323022103285301 21S.34E.04.311331

Available data for this site Groundwater: Field measurements V GO Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°30'50.1", Longitude 103°28'59.8" NAD83 Land-surface elevation 3,713 feet above NAVD88 The depth of the well is 125 feet below land surface. This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Pr-1			 	
Table of data				
Tab-separated data		_		
Graph of data				
Reselect period				



https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/?site_no=323022103285301&agency_cd... 9/7/2018

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Appendix C

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Released to Imaging: 12/1/2022 9:54:25 AM

Certificate of Analysis Summary 596598 Project Name: Osprey 20 Com 3H (8/10/18 COG Operating LLC, Artesia, NM



Date Received in Lab: Wed Aug-22-18 09:34 am Report Date: 29-AUG-18 Incine V. int M. Ď,

Project Location: Lea County, New Mexic.	0				Proje	et Manager: Jessica	Kramer
	Lab Id:	596598-001	596598-002	596598-003	596598-005	596598-007	596598-008
Analysis Dogustad	Field Id:	AH-1	AH-1	AH-2	AH-3	AH-4	AH-5
naicanhay ciclinity	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-21-18 00:00	Aug-21-18 00:00	Aug-21-18 00:00	Aug-21-18 00:00	Aug-21-18 00:00	Aug-21-18 00:00
BTEX by EPA 8021B	Extracted:	Aug-28-18 08:00		Aug-28-18 08:00	Aug-28-18 08:00	Aug-28-18 08:00	Aug-28-18 08:00
	Analyzed:	Aug-28-18 16:02		Aug-28-18 16:22	Aug-28-18 16:42	Aug-28-18 17:03	Aug-28-18 17:23
	Units/RL:	mg/kg RL		mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene	_	<0.00199 0.00199		<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00199 0.00199		<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199		<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398		<0.00398 0.00398	<0.00403 0.00403	<0.00404 0.00404	<0.00401 0.00401
o-Xylene		0.0438 0.00199		<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		0.0438 0.00199		<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		0.0438 0.00199		<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Chloride by EPA 300	Extracted:	Aug-24-18 14:30		Aug-24-18 14:30	Aug-24-18 14:30	Aug-24-18 14:30	Aug-24-18 14:30
	Analyzed:	Aug-24-18 20:14		Aug-24-18 19:25	Aug-24-18 20:47	Aug-24-18 21:09	Aug-24-18 21:14
	Units/RL:	mg/kg RL		mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		236 4.99		21.3 4.95	<5.00 5.00	15.9 4.96	31.1 5.00
TPH By SW8015 Mod	Extracted:	Aug-23-18 15:00	Aug-28-18 14:00	Aug-23-18 15:00	Aug-23-18 15:00	Aug-23-18 15:00	Aug-23-18 15:00
	Analyzed:	Aug-23-18 19:38	Aug-28-18 22:38	Aug-23-18 20:36	Aug-23-18 20:56	Aug-23-18 21:15	Aug-23-18 21:35
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		27.6 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		233 15.0	18.0 15.0	59.4 15.0	<15.0 15.0	16.5 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		261 15.0	18.0 15.0	59.4 15.0	<15.0 15.0	16.5 15.0	<15.0 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranyt to the end use of the data hereby presented. Our liability is limited to the amount invoiced for links work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer

lession hearner

Analytical Report 596598

for COG Operating LLC

Project Manager: Ike Tavarez Osprey 20 Com 3H (8/10/18

29-AUG-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



29-AUG-18

Project Manager: **Ike Tavarez COG Operating LLC** 2407 Pecos Avenue Artesia, NM 88210

Reference: XENCO Report No(s): **596598 Osprey 20 Com 3H (8/10/18** Project Address: Lea County, New Mexico

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 596598. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 596598 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Vermer

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Sample Cross Reference 596598



COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1	S	08-21-18 00:00		596598-001
AH-1	S	08-21-18 00:00		596598-002
AH-2	S	08-21-18 00:00		596598-003
AH-3	S	08-21-18 00:00		596598-005
AH-4	S	08-21-18 00:00		596598-007
AH-5	S	08-21-18 00:00		596598-008
AH-2	S	08-21-18 00:00		Not Analyzed
AH-3	S	08-21-18 00:00		Not Analyzed



CASE NARRATIVE

Page 27 of 45

Client Name: COG Operating LLC Project Name: Osprey 20 Com 3H (8/10/18

Project ID: Work Order Number(s): 596598

29-AUG-18 Report Date: Date Received: 08/22/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3061437 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 596598-001.





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id: AH-1		Matrix:	Soil		Γ	Date Received:08.2	22.18 09.3	4
Lab Sample Id: 596598-001		Date Colle	cted: 08.21	.18 00.00				
Analytical Method: Chloride by EPA	A 300				Р	Prep Method: E30	0P	
Tech: SCM					9	6 Moisture:		
Analyst: SCM		Date Prep	08.24	.18 14.30	E	Basis: We	t Weight	
Seq Number: 3061247		1					0	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	236	4.99		mg/kg	08.24.18 20.14		1
Analytical Method:TPH By SW801Tech:ARMAnalyst:ARMSeq Number:3061132	5 Mod	Date Prep:	08.23	.18 15.00	P % E	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	27.6	15.0		mg/kg	08.23.18 19.38		1
Diesel Range Organics (DRO)	C10C28DRO	233	15.0		mg/kg	08.23.18 19.38		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.23.18 19.38	U	1
Total TPH	PHC635	261	15.0		mg/kg	08.23.18 19.38		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	08.23.18 19.38		
o-Ternhenvl		84-15-1	110	%	70-135	08.23.18 19.38		





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id: AH-1	Matrix: Soil	Date Received:08.22.18 09.34
Lab Sample Id: 596598-001	Date Collected: 08.21.18 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Analytical Method: BTEX by EPA 8021B

Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	08.28.18 08.00	Basis:	Wet Weight
Seq Number:	3061437				

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.28.18 16.02	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.28.18 16.02	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.28.18 16.02	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.28.18 16.02	U	1
o-Xylene	95-47-6	0.0438	0.00199		mg/kg	08.28.18 16.02		1
Total Xylenes	1330-20-7	0.0438	0.00199		mg/kg	08.28.18 16.02		1
Total BTEX		0.0438	0.00199		mg/kg	08.28.18 16.02		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	137	%	70-130	08.28.18 16.02	**	
1,4-Difluorobenzene		540-36-3	83	%	70-130	08.28.18 16.02		





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id: AH-1		Matrix:	Soil]	Date Received:08.	22.18 09.3	4
Lab Sample Id: 596598-002		Date Collec	cted: 08.21.18 00.00				
Analytical Method: TPH By SW80	15 Mod]	Prep Method: TX	1005P	
Tech: ARM			0	% Moisture:			
Analyst: ARM		Date Prep:	08.28.18 14.00]	Basis: We	et Weight	
Seq Number: 3061546		-					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.28.18 22.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	18.0	15.0	mg/kg	08.28.18 22.38		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.28.18 22.38	U	1

				00			
PHC635	18.0	15.0		mg/kg	08.28.18 22.38		1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	111-85-3	96	%	70-135	08.28.18 22.38		
	84-15-1	95	%	70-135	08.28.18 22.38		
	PHC635	PHC635 18.0 Cas Number 111-85-3 84-15-1	PHC635 18.0 15.0 Cas Number Recovery 111-85-3 96 84-15-1 95	PHC635 18.0 15.0 Cas Number Recovery Units 111-85-3 96 % 84-15-1 95 %	PHC635 18.0 15.0 mg/kg Cas Number Recovery Units Limits 111-85-3 96 % 70-135 84-15-1 95 % 70-135	PHC635 18.0 15.0 mg/kg 08.28.18 22.38 % Units Limits Analysis Date 111-85-3 96 % 70-135 08.28.18 22.38 84-15-1 95 % 70-135 08.28.18 22.38	PHC635 18.0 15.0 mg/kg 08.28.18 22.38 % Units Limits Analysis Date Flag 111-85-3 96 % 70-135 08.28.18 22.38 84-15-1 95 % 70-135 08.28.18 22.38





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id:	AH-2		Matrix:	Soil		Ι	Date Received:08.2	22.18 09.3	4
Lab Sample Id	: 596598-003		Date Colle	ected: 08.21	.18 00.00				
Analytical Met	thod: Chloride by EP	A 300				P	Prep Method: E30)0P	
Tech:	SCM					9	6 Moisture:		
Analyst:	SCM		Date Prep	08.24	.18 14.30	E	Basis: Wet	t Weight	
Seq Number:	3061247		Dute 11ep.		101100				
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	21.3	4.95		mg/kg	08.24.18 19.25		1
Analytical Met Tech: Analyst:	thod: TPH By SW80 ARM ARM	15 Mod	Date Prep:	08.23	.18 15.00	F 9 E	Prep Method: TX 6 Moisture: Basis: Wet	1005P t Weight	
Seq Number:	3061132	Cas Number	Result	RI		Units	Analysis Data	Flag	Dil
		DUCCIO	<15 0	15.0				Tiag	1
Gasoline Range F	lydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.23.18 20.36	U	1
Diesel Range Or	ganics (DRO)	C10C28DRO	59.4	15.0		mg/kg	08.23.18 20.36		1
Oil Range Hydro	carbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.23.18 20.36	U	1
Total TPH		PHC635	59.4	15.0		mg/kg	08.23.18 20.36		1
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooct	ane		111-85-3	96	%	70-135	08.23.18 20.36		

103

%

70-135

08.23.18 20.36

84-15-1

o-Terphenyl





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id: AH-2	Matrix: Soil	Date Received:08.22.18 09.34
Lab Sample Id: 596598-003	Date Collected: 08.21.18 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Analytical Method: BTEX by EPA 8021B

-	-			-	
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	08.28.18 08.00	Basis:	Wet Weight
Seq Number:	3061437				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.28.18 16.22	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.28.18 16.22	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.28.18 16.22	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.28.18 16.22	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.28.18 16.22	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.28.18 16.22	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.28.18 16.22	U	1
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	122	%	70-130	08.28.18 16.22		
4-Bromofluorobenzene		460-00-4	123	%	70-130	08.28.18 16.22		





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id:	АН-3		Matrix:	Soil		Ι	Date Received:08.2	22.18 09.3	4	
Lab Sample Id	: 596598-005		Date Coll	ected: 08.21	.18 00.00					
Analytical Met	thod: Chloride by EP	PA 300				I	Prep Method: E30	0P		
Tech:	SCM					0	% Moisture:			
Analyst:	SCM		Date Prep	: 08.24	.18 14.30	I	Basis: Wet	t Weight		
Seq Number:	3061247		2	• • • •				U		
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	<5.00	5.00		mg/kg	08.24.18 20.47	U	1	
Analytical Met Tech: Analyst: Seq Number:	thod: TPH By SW80 ARM ARM 3061132	15 Mod	Date Prep	: 08.23	.18 15.00	H 9 H	Prep Method: TX % Moisture: Basis: Wet	1005P t Weight		
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range H	Iydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.23.18 20.56	U	1	
Diesel Range Org	anics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.23.18 20.56	U	1	
Oil Range Hydroc	carbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.23.18 20.56	U	1	
Total TPH		PHC635	<15.0	15.0		mg/kg	08.23.18 20.56	U	1	
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooct	tane		111-85-3	93	%	70-135	08.23.18 20.56			
o-Terphenyl	1		84-15-1	95	%	70-135	08.23.18 20.56			





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id: AH-3	Matrix: Soil	Date Received:08.22.18 09.34
Lab Sample Id: 596598-005	Date Collected: 08.21.18 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Analytical Method: BTEX by EPA 8021B

Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	08.28.18 08.00	Basis:	Wet Weight
Seq Number:	3061437				

Parameter	Cas Number	· Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.28.18 16.42	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.28.18 16.42	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.28.18 16.42	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	08.28.18 16.42	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.28.18 16.42	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.28.18 16.42	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.28.18 16.42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	129	%	70-130	08.28.18 16.42		
1,4-Difluorobenzene		540-36-3	94	%	70-130	08.28.18 16.42		





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id:	AH-4		Matrix:	Soil		Date Received:08.22.18 09.34				
Lab Sample Id	: 596598-007		Date Col	lected: 08.21	.18 00.00					
Analytical Me	thod: Chloride by EP	PA 300				F	Prep Method: E30	0P		
Tech:	SCM					0	6 Moisture:			
Analyst:	SCM		Date Pret	o: 08.24	.18 14.30	E	Basis: Wet	Weight		
Seq Number:	3061247		20001101					U		
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	15.9	4.96		mg/kg	08.24.18 21.09		1	
Analytical Method: TPH By SW8015 ModTech:ARMAnalyst:ARMSeq Number:3061132		15 Mod	Date Prep: 08.23.18 15.00		Prep Method: TX1005P % Moisture: Basis: Wet Weight					
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range H	Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.23.18 21.15	U	1	
Diesel Range Or	ganics (DRO)	C10C28DRO	16.5	15.0		mg/kg	08.23.18 21.15		1	
Oil Range Hydro	carbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.23.18 21.15	U	1	
Total TPH		PHC635	16.5	15.0		mg/kg	08.23.18 21.15		1	
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooct	tane		111-85-3	95	%	70-135	08.23.18 21.15			
o-Terpheny	1		84-15-1	98	%	70-135	08.23.18 21.15			





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id: AH-4	Matrix: Soil	Date Received:08.22.18 09.34
Lab Sample Id: 596598-007	Date Collected: 08.21.18 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Iy Уy δt

Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	08.28.18 08.00	Basis:	Wet Weight
Seq Number:	3061437				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.28.18 17.03	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.28.18 17.03	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.28.18 17.03	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	08.28.18 17.03	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.28.18 17.03	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.28.18 17.03	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.28.18 17.03	U	1
			%					
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	75	%	70-130	08.28.18 17.03		
1,4-Difluorobenzene		540-36-3	95	%	70-130	08.28.18 17.03		





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id: AH-5		Matrix:	Soil	Date Received:08.22.18 0			4
Lab Sample Id: 596598-008		Date Collec	cted: 08.21.18 00.00				
Analytical Method: Chloride by EF	PA 300				Prep Method: E30)0P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	08.24.18 14.30		Basis: We	t Weight	
Seq Number: 3061247		*					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31.1	5.00	mg/kg	08.24.18 21.14		1
Analytical Method: TPH By SW80	15 Mod				Prep Method: TX	1005P	
Tech: ARM					% Moisture:		
Analyst: ARM		Date Prep:	08.23.18 15.00		Basis: We	t Weight	
Seq Number: 3061132							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.23.18 21.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.23.18 21.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.23.18 21.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.23.18 21.35	U	1

		0/0				
Surrogate	Cas Number	Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	08.23.18 21.35	
o-Terphenyl	84-15-1	94	%	70-135	08.23.18 21.35	





COG Operating LLC, Artesia, NM

Osprey 20 Com 3H (8/10/18

Sample Id: AH-5	Matrix: Soil	Date Received:08.22.18 09.34
Lab Sample Id: 596598-008	Date Collected: 08.21.18 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	08.28.18 08.00	Basis:	Wet Weight
Seq Number:	3061437				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.28.18 17.23	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.28.18 17.23	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.28.18 17.23	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	08.28.18 17.23	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.28.18 17.23	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.28.18 17.23	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.28.18 17.23	U	1
			%	T T •4	. ,		171	
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	97	%	70-130	08.28.18 17.23		
4-Bromofluorobenzene		460-00-4	123	%	70-130	08.28.18 17.23		



Flagging Criteria



Page 39 of 45

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clier	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	atory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



COG Operating LLC

Osprey 20 Com 3H (8/10/18

Analytical Method:	Chloride by	y EPA 3	00						P	rep Metho	d: E30	0P	
Seq Number:	3061247				Matrix:	Solid				Date Pre	ep: 08.2	4.18	
MB Sample Id:	7661148-1-	BLK		LCS Sat	nple Id:	7661148-	1-BKS		LCS	D Sample	Id: 766	1148-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride		<4.99	250	243	97	247	99	90-110	2	20	mg/kg	08.24.18 18:57	
Analytical Method: Seq Number: Parent Sample Id:	Chloride b 3061247 596508-002	y EPA 30	00	MS Sat	Matrix: nple Id:	Soil 596508-00	02 S		P: MS	rep Metho Date Pre D Sample	od: E30 p: 08.2 Id: 596:	0P 4.18 508-002 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride		<5.00	250	246	98	245	98	90-110	0	20	mg/kg	08.24.18 19:14	

Analytical Method:	Chloride by EPA 30	0						Pr	ep Meth	od: E30	OP	
Seq Number:	3061247			Matrix:	Soil				Date Pr	ep: 08.2	24.18	
Parent Sample Id:	596508-003		MS San	nple Id:	596508-00)3 S		MSI	D Sample	e Id: 596	508-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	<5.00	250	244	98	244	98	90-110	0	20	mg/kg	08.24.18 20:30	

Analytical Method: Seq Number: MB Sample Id:	TPH By S 3061132 7661027-1	W8015 M -BLK	od	LCS Sar	Solid 7661027-	Prep Method: TX1005P Date Prep: 08.23.18 LCSD Sample Id: 7661027-1-BSD							
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO) <15.0 1000				967	97	945	95	70-135	2	20	mg/kg	08.23.18 18:59	
Diesel Range Organics (DRO)	<15.0	1000	1000	100	970	97	70-135	3	20	mg/kg	08.23.18 18:59	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSE %Rec	D LCSI 2 Flag	D I g	Limits	Units	Analysis Date	
1-Chlorooctane		96		1	19		116		7	0-135	%	08.23.18 18:59	
o-Terphenyl		99		9	99		94		7	0-135	%	08.23.18 18:59	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



BORATORIES

COG Operating LLC

Osprey 20 Com 3H (8/10/18

Analytical Method: Seq Number: MB Sample Id:	TPH By S 3061546 7661323-1	W8015 M -BLK	od	LCS San	Matrix:	Solid 7661323-	1-BKS	Prep Method: TX1005P Date Prep: 08.28.18 LCSD Sample Id: 7661323-1-BSD								
Parameter MB Spike Result Amount				LCS Result	LCS %Rec	LCSD Result	LCSD LCSD Result %Rec		%RPD RPD Lin		Units	Analysis Date	Flag			
Gasoline Range Hydrocarbo	1050	105	923	92	70-135	13	20	mg/kg	08.28.18 14:38							
Diesel Range Organics ((DRO)	<15.0	1000	1110	111	962	96	70-135	14	20	mg/kg	mg/kg 08.28.18 14:38				
Surrogate		MB %Rec	MB Flag	L4 %]	CS Rec	LCS Flag	LCSI %Ree) LCSI c Flag	D L ç	imits	Units	Analysis Date				
1-Chlorooctane		95		1	30		117		7	0-135	%	08.28.18 14:38				
o-Terphenyl 96		1	22		98	70-135 %			%	08.28.18 14:38						

Analytical Method: Seq Number:	TPH By SW 3061132	V8015 M	od		Matrix:	Soil		Prep Method: TX1005P Date Prep: 08.23.18							
Parent Sample Id:	596598-001			MS Sar	nple Id:	596598-00	596598-001 S			MSD Sample Id: 596598-001 SD					
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Gasoline Range Hydrocarbons (GRO) 27.6 1000				920	89	938	91	70-135	2	20	mg/kg	08.23.18 19:57			
Diesel Range Organics (DRO)	233	1000	1120	89	1140	91	70-135	2	20	mg/kg	08.23.18 19:57			
Surrogate				MS %Rec		MS Flag	MSD %Rec	n MSE c Flag		limits	Units	Analysis Date			
1-Chlorooctane				1	21		123		7	0-135	%	08.23.18 19:57			
o-Terphenyl				1	06		106		7	0-135	%	08.23.18 19:57			

Analytical Method:	TPH By SW	8015 M	od						P	rep Method	l: TX	1005P		
Seq Number:	3061546				Matrix:	Soil				Date Prep	o: 08.	08.28.18		
Parent Sample Id:	597133-001			MS San	nple Id:	597133-00	01 S	MSD Sample Id: 597133-001 SD						
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbons (GRO) <15.0 997				880	88	885	89	70-135	1	20	mg/kg	08.28.18 15:38		
Diesel Range Organics (DRO)	<15.0	997	902	90	906	91	91 70-135 0 20 mg/kg 08.28.1				08.28.18 15:38		
Surrogate	MS %Rec		MS Flag	MSD %Rec	MSD Flag		limits	Units	Analysis Date					
1-Chlorooctane			112			112		7	0-135	%	08.28.18 15:38			
o-Terphenyl				ç	99		94	70-135 9			%	08.28.18 15:38		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



COG Operating LLC

Osprey 20 Com 3H (8/10/18

Analytical Method:	BTEX by EPA 8021	В		Prep Method: SW5030B										
Seq Number:	3061437]	Matrix:	Solid		Date Prep: 08.28.18							
MB Sample Id:	7661266-1-BLK		LCS San	nple Id:	7661266-1-BKS			LCS	1266-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	SD Limits Rec		RPD Limi	t Units	Analysis Date	Flag		
Benzene	< 0.00202	0.101	0.103	102	0.0983	98	70-130	5	35	mg/kg	08.28.18 08:45			
Toluene	< 0.00202	0.101	0.0972	96	0.0929	93	70-130	5	35	mg/kg	08.28.18 08:45			
Ethylbenzene	< 0.00202	0.101	0.111	110	0.105	105	70-130	6	35	mg/kg	08.28.18 08:45			
m,p-Xylenes	< 0.00403	0.202	0.214	106	0.203	101	70-130	5	35	mg/kg	08.28.18 08:45			
o-Xylene	< 0.00202	0.101	0.0985	98	0.0938	94	70-130	5	35	mg/kg	08.28.18 08:45			
Surrogate	MB %Rec	MB Flag	L0 %]	CS Rec	LCS Flag	LCSD %Rec) LCSI 2 Flag)]	Limits	Units	Analysis Date			
1,4-Difluorobenzene	91		9	03		94		7	70-130	%	08.28.18 08:45			
4-Bromofluorobenzene	94		9	93		92		7	70-130	%	08.28.18 08:45			

Analytical Method:	BTEX by EPA 802		Prep Method: SW5030B											
Seq Number:	3061437			Matrix:	Soil			Date Prep: 08.28.18						
Parent Sample Id:	596789-001		MS Sar	nple Id:	596789-001 S			MSD Sample Id: 596789-001 SD						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag		
Benzene	< 0.00200	0.0998	0.0530	53	0.0585	59	70-130	10	35	mg/kg	08.28.18 09:26	Х		
Toluene	< 0.00200	0.0998	0.0511	51	0.0558	56	70-130	9	35	mg/kg	08.28.18 09:26	Х		
Ethylbenzene	< 0.00200	0.0998	0.0580	58	0.0633	63	70-130	9	35	mg/kg	08.28.18 09:26	Х		
m,p-Xylenes	< 0.00399	0.200	0.112	56	0.122	61	70-130	9	35	mg/kg	08.28.18 09:26	Х		
o-Xylene	< 0.00200	0.0998	0.0516	52	0.0571	57	70-130	10	35	mg/kg	08.28.18 09:26	Х		
Surrogate			N %	1S Rec	MS Flag	MSD %Rec	MSD Flag		Limits	Units	Analysis Date			
1,4-Difluorobenzene			9	91		90		7	/0-130	%	08.28.18 09:26			
4-Bromofluorobenzene		90		90		7	/0-130	%	08.28.18 09:26					

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Page 20 of 22

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OPRIONAL COPY Over Trade Image: Trade	0		Date: Time: R	Date: Time: F	172/18 9:34m	1													exceeds 100 mg/kg. Run deep			/ Mexico	m 3H (8/10/18)	Ø		/ Record
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Received by OCD: 12/1/2022 9:42:15 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 08/22/2018 09:34:00 AM Temperature Measuring device used : R8 Work Order #: 596598 Comments Sample Receipt Checklist 2.5 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes TPH was in bulk container #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 08/22/2018

N/A

N/A

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 08/22/2018

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:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	162944
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

CONDI		
Created By	Condition	Condition Date
bhall	Confirmation and side wall samples will need to be collected from the excavation.	12/1/2022
bhall	1RP-5158 closed. Please refer to incident #nOY1823239315 for all future communication.	12/1/2022
bhall	Submit a complete report through the OCD Permitting website by 3/3/2023.	12/1/2022

CONDITIONS

Action 162944