



June 4, 2019

Dylan Rose-Coss  
Oil Conservation Division, District 1  
1625 N. French Dr.  
Hobbs, NM 88240

**Re: Closure Report  
COG Operating  
Dominator 25 Federal Com #607 (3/8/19)  
API #: 30-025-44712  
GPS: 32.09502, -103.528131  
RP#: 1RP-5433  
Unit Letter N, Section 25, Township 25 South, Range 33 East  
Lea County, New Mexico**

Mr. Rose-Coss,

COG Operating, LLC (COG) is pleased to submit the following closure report in response to a release that occurred at the Dominator 25 Federal Com #607 located in Unit Letter N, Section 25, Township 25 South, Range 33 East in Lea County, New Mexico.

## **BACKGROUND**

The release was discovered on March 8, 2019 and a C-141 initial report was submitted and approved by the New Mexico Oil Conservation Division (NMOCD). The produced water release was caused by gasket failure on the frac tank cleanout plate. A vacuum truck was used to remove all of the freestanding fluids. All of the fluids remained on the pad impacting an area measured approximately 25' x 30'. Approximately 5 barrels of produced water were released and recovered approximately 4 barrels of water. The initial C-141 is shown in Appendix A.

## **GROUNDWATER AND REGULATORY FRAMEWORK**

According to the New Mexico Office of the State Engineer (NMOSE), reported a water well located in Section 26 with depth to water of 110 feet below surface. The USGS database showed two (2) wells in Sections 20 with a depth to water of 202 feet and 212 feet below surface. The water well information is shown in Appendix B.

A risk based evaluation and site determinations were performed in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production facilities in New Mexico (effective August 14, 2018). According to the site characterization evaluation, no other receptors (water wells, playas, karst, 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.)
None Located	>100 feet

**Table 1 Delineation and Closure Criteria:**

Remedial Action Levels (RALs)	
Chlorides	20,000 mg/kg
TPH (GRO and DRO and MRO)	2,500 mg/kg
TPH (GRO and DRO)	1,000 mg/kg
Benzene	10 mg/kg
Total BTEX	50 mg/kg

**REMEDIATION**

All of the samples were below the Table 1 closure criteria concentrations and no remediation is required at the site.

**SITE RECLAMATION AND RESTORATION**

The spill remained on the facility pad and no reclamation is required for the release.

**CLOSURE REQUEST**

Based on the results and remediation performed, COG requesting closure of the release. The signed C-141 Final is included in Appendix A. Should you have any questions or concerns on the closure report, please do not hesitate to contact me.

Sincerely,

Sincerely,

**Concho Operating, LLC**




Ike Tavarez, P. G.  
Senior HSE Supervisor  
[itavarez@concho.com](mailto:itavarez@concho.com)

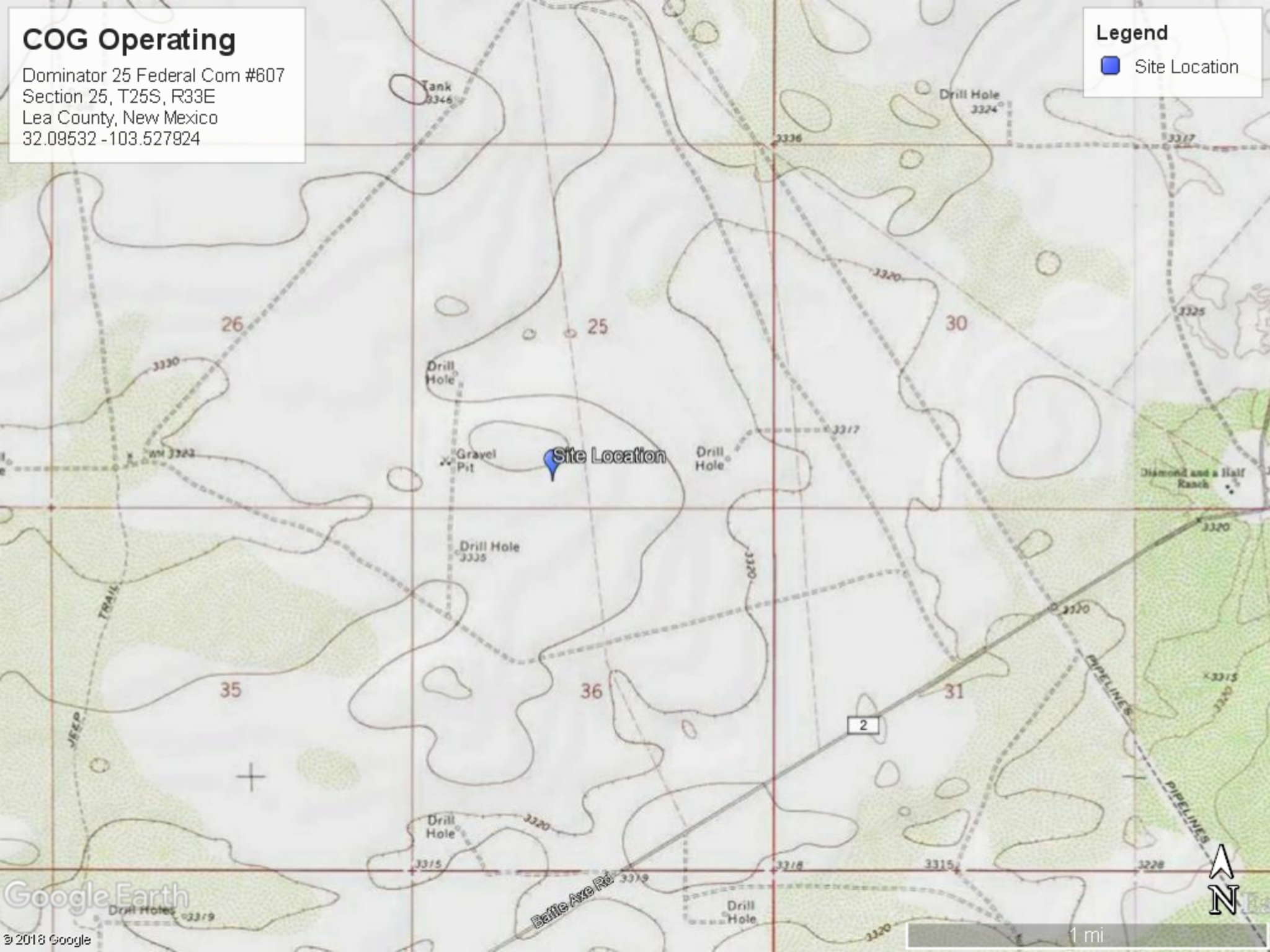
## Figures

# COG Operating

Dominator 25 Federal Com #607  
Section 25, T25S, R33E  
Lea County, New Mexico  
32.09532 -103.527924

## Legend

 Site Location








## COG Operating

Dominator 25 Federal Com #607  
Section 25, T25S, R33E  
Lea County, New Mexico  
32.095032 -103.527924

### Legend

-  Frac Tank
-  Sample locations
-  Spill Area



## Tables

**Table 1**  
**COG Operating LLC.**  
**Dominator 25 Federal Com #607**  
**Lea County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)						Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	
			In-Situ	Removed	GRO	DRO	MRO	Total	GRO	DRO				Total
Average Depth to Groundwater (ft) >100'														
NMOCD Remediation Action Limits (mg/kg)					-	-	-	2,500	-	-	1,000	10	50	20,000
AH-1	5/2/2019	0-1	X		<15.0	406	73.8	406	<15.0	406	406	<0.002	<0.002	311
AH-1	5/2/2019	1-1.5	X		<15.0	377	204	581	<15.0	377	377	<0.002	<0.002	914
AH-1	5/2/2019	2-2.5	X		<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<0.002	<0.002	1160
North Wall	5/2/2019	-	X		<14.9	306	<14.9	306	<14.9	306	306	<0.050	<0.050	181
South Wall	5/2/2019	-	X		<15.0	23.3	<15.0	23	<15.0	23.3	23.3	<0.050	0.975	108
West Wall	5/2/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	1130
East Wall	5/2/2019	-	X		<14.9	22.7	<14.9	22.7	<14.9	22.7	22.7	<0.050	<0.050	201

(-) Not Analyzed

## Appendix A



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

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

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

### Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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.

<p><b>Characterization Report Checklist:</b> <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li><li><input type="checkbox"/> Field data</li><li><input type="checkbox"/> Data table of soil contaminant concentration data</li><li><input type="checkbox"/> Depth to water determination</li><li><input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li><li><input type="checkbox"/> Boring or excavation logs</li><li><input type="checkbox"/> Photographs including date and GIS information</li><li><input type="checkbox"/> Topographic/Aerial maps</li><li><input type="checkbox"/> Laboratory data including chain of custody</li></ul>
--

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.

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_  \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## Appendix B



## New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">C 02312</a>		CUB	LE	1	2	1	05	25S	33E	632241	3559687*	150	90	60
<a href="#">C 02313</a>		CUB	LE	2	3	3	26	25S	33E	636971	3552098*	150	110	40
<a href="#">C 02373 CLW317846</a>	O	CUB	LE	2	1	1	13	25S	33E	638518	3556544*	625	185	440
<a href="#">C 02373 S</a>		CUB	LE	1	2	1	13	25S	33E	638721	3556549*	625	185	440

Average Depth to Water: **142 feet**

Minimum Depth: **90 feet**

Maximum Depth: **185 feet**

**Record Count:** 4

**PLSS Search:**

**Township:** 25S **Range:** 33E

\*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.

6/2/19 3:26 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



## National Water Information System: Mapper

Help

Info

Rectangular Snip

Sites

Map

+

Search

Search by Street Address:

32.095032 -103.527924

➔

Search by Place Name:

Enter Placename

➔

Search by Site Number(s):

Enter Site Number(s)

➔

Search by State/Territory:

Select an Area

▼

Search by Watershed Region:

Select a Region

▼

▲

Surface-Water Sites

●

Groundwater Sites

●

Springs

●

Atmospheric Sites

●

Other Sites



Site Information





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Data Category:  Geographic Area:

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Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =  
• 320615103352601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 320615103352601 25S.33E.20.443331

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°06'15", Longitude 103°35'26" NAD27

Land-surface elevation 3,404 feet above NAVD88

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

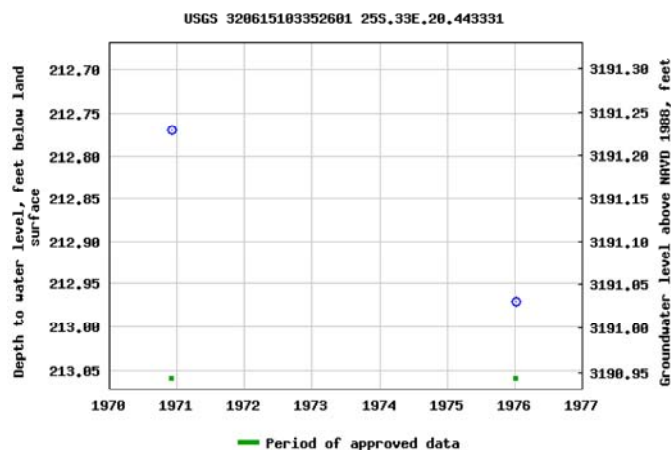
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

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Title: Groundwater for USA: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nwis/gwlevels?site\\_no=320615103352601](https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=320615103352601)





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Data Category:

Groundwater

Geographic Area:

United States

GO

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## Search Results -- 1 sites found

site\_no list =

- 320631103351401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

## USGS 320631103351401 25S.33E.20.443313

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code --

Latitude 32°06'31", Longitude 103°35'14" NAD27

Land-surface elevation 3,398 feet above NAVD88

This well is completed in the Chinle Formation (231CHNL) local aquifer.

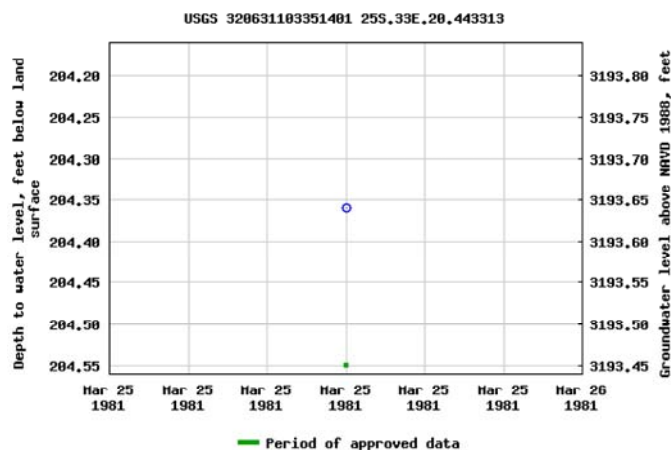
### Output formats

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Title: Groundwater for USA: Water Levels

URL: [https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels?site\\_no=320631103351401](https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels?site_no=320631103351401)





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Data Category:


Groundwater

Geographic Area:

United States

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site\_no list =

- 320523103294401

Minimum number of levels = 1

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## USGS 320523103294401 25S.34E.29.343322

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°05'23", Longitude 103°29'44" NAD27

Land-surface elevation 3,321 feet above NAVD88

The depth of the well is 165 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

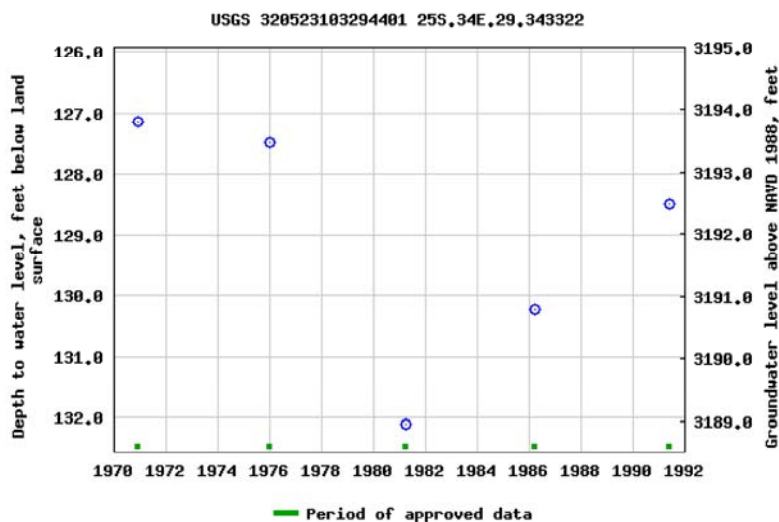
### Output formats

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site\_no list = 

- 320419103302201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 320419103302201 26S.34E.06.21414

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°04'37.9", Longitude 103°30'20.5" NAD83

Land-surface elevation 3,319.00 feet above NGVD29

The depth of the well is 360 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

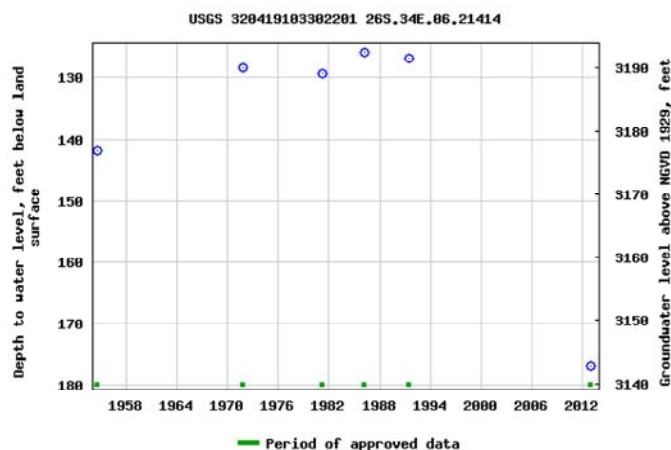
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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels/>





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site\_no list =  
• 320407103331001

Minimum number of levels = 1

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### USGS 320407103331001 26S.33E.03.444110

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code --

Latitude 32°04'07", Longitude 103°33'10" NAD27

Land-surface elevation 3,311 feet above NAVD88

The depth of the well is 180 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

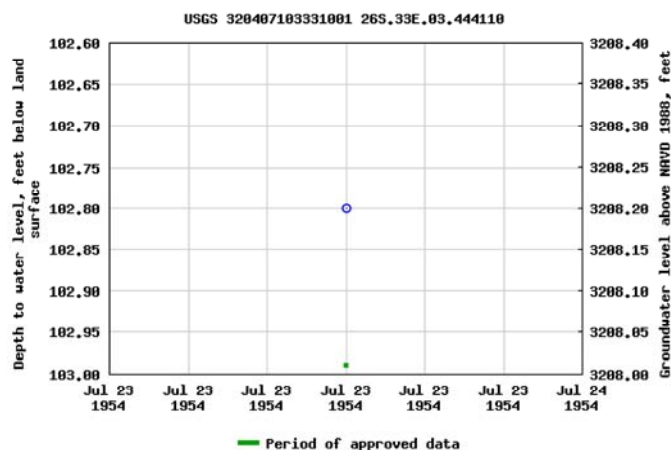
#### Output formats

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Title: Groundwater for USA: Water Levels

URL: [https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels?site\\_no=320407103331001](https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels?site_no=320407103331001)





# COG Operating

Dominator 25 Federal Com #607  
Section 25, T25S, R33E  
Lea County, New Mexico  
32.095032 -103.527924

## Legend

- High
- Low
- Medium
- Site Location

Site Location







## ▼ Data Layers

- ☒ FEMA National Flood Hazard Layer
  - ☒ NFHL Data as of 7/05/2016
    - ☒ Flood Control Structures
      - Bridge
      - Dam, Weir
      - All Other Structures
    - ☒ Levees
    - ☒ Cross Sections
    - ☒ Base Flood Elevations (BFE)
    - ☐ Water Features
    - ☒ Letter of Map Revision (LOMR)
    - ☐ Water Areas
    - ☒ Flood Hazard Areas
      - 1% Annual Chance Flood Hazard (A, AE)
      - Shallow Flooding (AO, AH)
      - 0.2% Annual Chance Flood Hazard
      - Area with reduced risk due to levee
      - Unstudied Area, Flooding Possible (D)
    - ☐ FIRM Panels
    - ☐ Census Populated Places
    - ☐ Community Anchor Institutions
    - ☐ HUC Boundaries
    - ☐ NAD Counties

0.3mi

► Measure

► Print

► Bookmarks

► Switch Basemap

32.095052 -103.527924

### Search Result

Y:32.095052 X:-103.527924

[Zoom to](#)



## Appendix C



# Certificate of Analysis Summary 623115

COG Operating LLC, Artesia, NM

Project Name: Dominator 25 Federal Com 607H



Project Id:

Contact: Ike Tavaréz

Project Location: Lea County, New Mexico

Date Received in Lab: Fri May-03-19 08:42 am

Report Date: 07-MAY-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	623115-001	623115-002	623115-003	623115-004	623115-005	623115-006
	<i>Field Id:</i>	AH-1 (0-1)	AH-1 (1-1.5')	AH-1 (2-2.5')	North (0-0.5')	South (0-0.5')	East (0-0.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	May-02-19 00:00	May-02-19 00:00	May-02-19 00:00	May-02-19 00:00	May-02-19 00:00	May-02-19 00:00
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	May-03-19 11:30	May-03-19 11:30	May-03-19 11:30	May-03-19 11:30	May-03-19 11:30	May-03-19 11:30
	<i>Analyzed:</i>	May-03-19 13:35	May-03-19 13:54	May-03-19 14:13	May-03-19 14:32	May-03-19 14:51	May-03-19 15:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402	<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	May-03-19 10:00	May-03-19 10:00	May-03-19 10:00	May-03-19 10:00	May-03-19 10:00	May-03-19 10:00
	<i>Analyzed:</i>	May-03-19 13:25	May-03-19 13:32	May-03-19 13:40	May-03-19 13:47	May-03-19 14:09	May-03-19 14:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		311 4.95	914 4.95	1160 5.04	181 4.99	108 4.98	201 4.95
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	May-04-19 10:00	May-04-19 10:00	May-04-19 10:00	May-04-19 10:00	May-04-19 10:00	May-04-19 10:00
	<i>Analyzed:</i>	May-04-19 23:03	May-05-19 00:04	May-05-19 00:25	May-05-19 00:45	May-05-19 01:05	May-05-19 01:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons		<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<14.9 14.9
Diesel Range Organics		406 15.0	377 15.0	<15.0 15.0	306 14.9	23.3 15.0	22.7 14.9
Motor Oil Range Hydrocarbons (MRO)		73.8 15.0	204 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<14.9 14.9
Total TPH		480 15.0	581 15.0	<15.0 15.0	306 14.9	23.3 15.0	22.7 14.9

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 report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

*Jessica Kramer*

Jessica Kramer  
Project Assistant



# Certificate of Analysis Summary 623115

COG Operating LLC, Artesia, NM

Project Name: Dominator 25 Federal Com 607H



Project Id:

Contact: Ike Tavaréz

Project Location: Lea County, New Mexico

Date Received in Lab: Fri May-03-19 08:42 am

Report Date: 07-MAY-19

Project Manager: Jessica Kramer

<b>Analysis Requested</b>	<b>Lab Id:</b>	623115-007					
	<b>Field Id:</b>	West (0-0.5')					
	<b>Depth:</b>						
	<b>Matrix:</b>	SOIL					
	<b>Sampled:</b>	May-02-19 00:00					
<b>BTEX by EPA 8021B</b>	<b>Extracted:</b>	May-03-19 11:30					
	<b>Analyzed:</b>	May-03-19 15:29					
	<b>Units/RL:</b>	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00400 0.00400					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
<b>Chloride by EPA 300</b>	<b>Extracted:</b>	May-03-19 10:00					
	<b>Analyzed:</b>	May-03-19 14:46					
	<b>Units/RL:</b>	mg/kg RL					
Chloride		1130 5.00					
<b>TPH By SW8015 Mod</b>	<b>Extracted:</b>	May-04-19 10:00					
	<b>Analyzed:</b>	May-05-19 01:47					
	<b>Units/RL:</b>	mg/kg RL					
Gasoline Range Hydrocarbons		<15.0 15.0					
Diesel Range Organics		767 15.0					
Motor Oil Range Hydrocarbons (MRO)		180 15.0					
Total TPH		947 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 report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer

Jessica Kramer  
Project Assistant

# Analytical Report 623115

## for COG Operating LLC

**Project Manager: Ike Tavaréz**  
**Dominator 25 Federal Com 607H**

**07-MAY-19**

Collected By: Client



**1211 W. Florida Ave**  
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)  
Xenco-San Antonio (EPA Lab Code: TNi02385): Texas (T104704534-18-4)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Atlanta (LELAP Lab ID #04176)  
Xenco-Tampa: Florida (E87429), North Carolina (483)





07-MAY-19

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

Reference: XENCO Report No(s): **623115**  
**Dominator 25 Federal Com 607H**  
Project Address: Lea County, New Mexico

**Ike Tavaréz:**

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) 623115. 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. 623115 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 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*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



## Sample Cross Reference 623115



### COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 (0-1)	S	05-02-19 00:00		623115-001
AH-1 (1-1.5')	S	05-02-19 00:00		623115-002
AH-1 (2-2.5')	S	05-02-19 00:00		623115-003
North (0-0.5')	S	05-02-19 00:00		623115-004
South (0-0.5')	S	05-02-19 00:00		623115-005
East (0-0.5')	S	05-02-19 00:00		623115-006
West (0-0.5')	S	05-02-19 00:00		623115-007



## CASE NARRATIVE

*Client Name: COG Operating LLC*

*Project Name: Dominator 25 Federal Com 607H*

Project ID:  
Work Order Number(s): 623115

Report Date: 07-MAY-19  
Date Received: 05/03/2019

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**Sample receipt non conformances and comments:**

PER CLIENTS EMAIL, CORRECTED PROJECT NAME. NEW VERSION GENERATED JK 05/07/19

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3088027 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 623115-003.

Lab Sample ID 623115-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Toluene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 623115-001, -002, -003, -004, -005, -006, -007. The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: AH-1 (0-1)

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-001

Date Collected: 05.02.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.03.19 10.00

Basis: Wet Weight

Seq Number: 3087991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	311	4.95	mg/kg	05.03.19 13.25		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.04.19 10.00

Basis: Wet Weight

Seq Number: 3088044

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.04.19 23.03	U	1
Diesel Range Organics	C10C28DRO	406	15.0	mg/kg	05.04.19 23.03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	73.8	15.0	mg/kg	05.04.19 23.03		1
Total TPH	PHC635	480	15.0	mg/kg	05.04.19 23.03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	05.04.19 23.03	
o-Terphenyl	84-15-1	122	%	70-135	05.04.19 23.03	



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: AH-1 (0-1)

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-001

Date Collected: 05.02.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.03.19 11.30

Basis: Wet Weight

Seq Number: 3088027

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.03.19 13.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.03.19 13.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.03.19 13.35	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.03.19 13.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.03.19 13.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.03.19 13.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.03.19 13.35	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	102	%	70-130	05.03.19 13.35		
4-Bromofluorobenzene	460-00-4	113	%	70-130	05.03.19 13.35		



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: AH-1 (1-1.5')

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-002

Date Collected: 05.02.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.03.19 10.00

Basis: Wet Weight

Seq Number: 3087991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	914	4.95	mg/kg	05.03.19 13.32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.04.19 10.00

Basis: Wet Weight

Seq Number: 3088044

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.05.19 00.04	U	1
Diesel Range Organics	C10C28DRO	377	15.0	mg/kg	05.05.19 00.04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	204	15.0	mg/kg	05.05.19 00.04		1
Total TPH	PHC635	581	15.0	mg/kg	05.05.19 00.04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	05.05.19 00.04	
o-Terphenyl	84-15-1	111	%	70-135	05.05.19 00.04	





# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: AH-1 (1-1.5')

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-002

Date Collected: 05.02.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.03.19 11.30

Basis: Wet Weight

Seq Number: 3088027

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.03.19 13.54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.03.19 13.54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.03.19 13.54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.03.19 13.54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.03.19 13.54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.03.19 13.54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.03.19 13.54	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.03.19 13.54		
4-Bromofluorobenzene	460-00-4	119	%	70-130	05.03.19 13.54		



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: AH-1 (2-2.5')

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-003

Date Collected: 05.02.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.03.19 10.00

Basis: Wet Weight

Seq Number: 3087991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1160	5.04	mg/kg	05.03.19 13.40		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.04.19 10.00

Basis: Wet Weight

Seq Number: 3088044

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.05.19 00.25	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	05.05.19 00.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	05.05.19 00.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.05.19 00.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	05.05.19 00.25	
o-Terphenyl	84-15-1	102	%	70-135	05.05.19 00.25	



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: AH-1 (2-2.5')

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-003

Date Collected: 05.02.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.03.19 11.30

Basis: Wet Weight

Seq Number: 3088027

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.03.19 14.13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.03.19 14.13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.03.19 14.13	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.03.19 14.13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.03.19 14.13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.03.19 14.13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.03.19 14.13	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	96	%	70-130	05.03.19 14.13		
4-Bromofluorobenzene	460-00-4	134	%	70-130	05.03.19 14.13	**	



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: **North (0-0.5')**

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-004

Date Collected: 05.02.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.03.19 10.00

Basis: Wet Weight

Seq Number: 3087991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	181	4.99	mg/kg	05.03.19 13.47		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.04.19 10.00

Basis: Wet Weight

Seq Number: 3088044

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<14.9	14.9	mg/kg	05.05.19 00.45	U	1
<b>Diesel Range Organics</b>	C10C28DRO	<b>306</b>	14.9	mg/kg	05.05.19 00.45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	05.05.19 00.45	U	1
<b>Total TPH</b>	PHC635	<b>306</b>	14.9	mg/kg	05.05.19 00.45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	05.05.19 00.45	
o-Terphenyl	84-15-1	117	%	70-135	05.05.19 00.45	

## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: **North (0-0.5')**

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-004

Date Collected: 05.02.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.03.19 11.30

Basis: Wet Weight

Seq Number: 3088027

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.03.19 14.32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.03.19 14.32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.03.19 14.32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.03.19 14.32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.03.19 14.32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.03.19 14.32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.03.19 14.32	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	105	%	70-130	05.03.19 14.32		
4-Bromofluorobenzene	460-00-4	116	%	70-130	05.03.19 14.32		



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: **South (0-0.5')**

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-005

Date Collected: 05.02.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.03.19 10.00

Basis: Wet Weight

Seq Number: 3087991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	4.98	mg/kg	05.03.19 14.09		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.04.19 10.00

Basis: Wet Weight

Seq Number: 3088044

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.05.19 01.05	U	1
Diesel Range Organics	C10C28DRO	23.3	15.0	mg/kg	05.05.19 01.05		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	05.05.19 01.05	U	1
Total TPH	PHC635	23.3	15.0	mg/kg	05.05.19 01.05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	05.05.19 01.05	
o-Terphenyl	84-15-1	101	%	70-135	05.05.19 01.05	





# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: **South (0-0.5')**

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-005

Date Collected: 05.02.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.03.19 11.30

Basis: Wet Weight

Seq Number: 3088027

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.03.19 14.51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.03.19 14.51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.03.19 14.51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.03.19 14.51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.03.19 14.51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.03.19 14.51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.03.19 14.51	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.03.19 14.51		
4-Bromofluorobenzene	460-00-4	121	%	70-130	05.03.19 14.51		



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: **East (0-0.5')**

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-006

Date Collected: 05.02.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.03.19 10.00

Basis: Wet Weight

Seq Number: 3087991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	201	4.95	mg/kg	05.03.19 14.39		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.04.19 10.00

Basis: Wet Weight

Seq Number: 3088044

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<14.9	14.9	mg/kg	05.05.19 01.26	U	1
<b>Diesel Range Organics</b>	C10C28DRO	22.7	14.9	mg/kg	05.05.19 01.26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	05.05.19 01.26	U	1
<b>Total TPH</b>	PHC635	22.7	14.9	mg/kg	05.05.19 01.26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	05.05.19 01.26	
o-Terphenyl	84-15-1	101	%	70-135	05.05.19 01.26	



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: **East (0-0.5')**

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-006

Date Collected: 05.02.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.03.19 11.30

Basis: Wet Weight

Seq Number: 3088027

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.03.19 15.10	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.03.19 15.10	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.03.19 15.10	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.03.19 15.10	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.03.19 15.10	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.03.19 15.10	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.03.19 15.10	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	115	%	70-130	05.03.19 15.10		
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.03.19 15.10		



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: **West (0-0.5')**

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-007

Date Collected: 05.02.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.03.19 10.00

Basis: Wet Weight

Seq Number: 3087991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1130	5.00	mg/kg	05.03.19 14.46		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.04.19 10.00

Basis: Wet Weight

Seq Number: 3088044

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.05.19 01.47	U	1
Diesel Range Organics	C10C28DRO	767	15.0	mg/kg	05.05.19 01.47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	180	15.0	mg/kg	05.05.19 01.47		1
Total TPH	PHC635	947	15.0	mg/kg	05.05.19 01.47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	05.05.19 01.47	
o-Terphenyl	84-15-1	120	%	70-135	05.05.19 01.47	



# Certificate of Analytical Results 623115



## COG Operating LLC, Artesia, NM

Dominator 25 Federal Com 607H

Sample Id: **West (0-0.5')**

Matrix: Soil

Date Received: 05.03.19 08.42

Lab Sample Id: 623115-007

Date Collected: 05.02.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.03.19 11.30

Basis: Wet Weight

Seq Number: 3088027

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.03.19 15.29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.03.19 15.29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.03.19 15.29	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.03.19 15.29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.03.19 15.29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.03.19 15.29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.03.19 15.29	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.03.19 15.29		
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.03.19 15.29		

- 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** Client Sample

**BLK**

Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample

**BKSD/LCSD**

Blank Spike Duplicate/Laboratory 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





## QC Summary 623115

### COG Operating LLC Dominator 25 Federal Com 607H

**Analytical Method: Chloride by EPA 300**

Seq Number: 3087991

MB Sample Id: 7677138-1-BLK

Matrix: Solid

LCS Sample Id: 7677138-1-BKS

Prep Method: E300P

Date Prep: 05.03.19

LCSD Sample Id: 7677138-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.71	250	260	104	262	105	90-110	1	20	mg/kg	05.03.19 11:50	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3087991

Parent Sample Id: 622948-001

Matrix: Soil

MS Sample Id: 622948-001 S

Prep Method: E300P

Date Prep: 05.03.19

MSD Sample Id: 622948-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	922	249	1180	104	1180	104	90-110	0	20	mg/kg	05.03.19 12:11	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3087991

Parent Sample Id: 623115-004

Matrix: Soil

MS Sample Id: 623115-004 S

Prep Method: E300P

Date Prep: 05.03.19

MSD Sample Id: 623115-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	181	250	434	101	433	101	90-110	0	20	mg/kg	05.03.19 13:54	

**Analytical Method: TPH By SW8015 Mod**

Seq Number: 3088044

MB Sample Id: 7677204-1-BLK

Matrix: Solid

LCS Sample Id: 7677204-1-BKS

Prep Method: TX1005P

Date Prep: 05.04.19

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<8.00	1000	1060	106	70-135	mg/kg	05.04.19 22:22	
Diesel Range Organics	<8.13	1000	1090	109	70-135	mg/kg	05.04.19 22:22	

**Analytical Method: TPH By SW8015 Mod**

Seq Number: 3088044

Parent Sample Id: 623115-001

Matrix: Soil

MS Sample Id: 623115-001 S

Prep Method: TX1005P

Date Prep: 05.04.19

MSD Sample Id: 623115-001 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	<7.99	998	978	98	1160	116	70-135	17	20	mg/kg	05.04.19 23:24	
Diesel Range Organics	406	998	1250	85	1530	113	70-135	20	20	mg/kg	05.04.19 23:24	

**Surrogate**

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	122		129		70-135	%	05.04.19 23:24
o-Terphenyl	108		127		70-135	%	05.04.19 23:24

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

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



## QC Summary 623115

### COG Operating LLC Dominator 25 Federal Com 607H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3088027

MB Sample Id: 7677215-1-BLK

Matrix: Solid

LCS Sample Id: 7677215-1-BKS

Prep Method: SW5030B

Date Prep: 05.03.19

LCSD Sample Id: 7677215-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0973	98	0.104	103	70-130	7	35	mg/kg	05.03.19 11:43	
Toluene	<0.00198	0.0992	0.0935	94	0.0999	99	70-130	7	35	mg/kg	05.03.19 11:43	
Ethylbenzene	<0.00198	0.0992	0.102	103	0.108	107	70-130	6	35	mg/kg	05.03.19 11:43	
m,p-Xylenes	<0.00397	0.198	0.211	107	0.225	111	70-130	6	35	mg/kg	05.03.19 11:43	
o-Xylene	<0.00198	0.0992	0.104	105	0.110	109	70-130	6	35	mg/kg	05.03.19 11:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		96		96		70-130	%	05.03.19 11:43
4-Bromofluorobenzene	101		105		105		70-130	%	05.03.19 11:43

Analytical Method: BTEX by EPA 8021B

Seq Number: 3088027

Parent Sample Id: 623115-001

Matrix: Soil

MS Sample Id: 623115-001 S

Prep Method: SW5030B

Date Prep: 05.03.19

MSD Sample Id: 623115-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0826	83	0.0785	79	70-130	5	35	mg/kg	05.03.19 12:21	
Toluene	<0.00199	0.0996	0.0703	71	0.0682	68	70-130	3	35	mg/kg	05.03.19 12:21	X
Ethylbenzene	<0.00199	0.0996	0.0640	64	0.0641	64	70-130	0	35	mg/kg	05.03.19 12:21	X
m,p-Xylenes	<0.00398	0.199	0.132	66	0.134	67	70-130	2	35	mg/kg	05.03.19 12:21	X
o-Xylene	<0.00199	0.0996	0.0666	67	0.0670	67	70-130	1	35	mg/kg	05.03.19 12:21	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		70-130	%	05.03.19 12:21
4-Bromofluorobenzene	110		111		70-130	%	05.03.19 12:21

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

# Analysis Request of Chain of Custody Record



One Concho  
Center/600 Illinois  
Avenue/Midland, Texas  
Tel (432) 683-7443

Client Name:

Site Manager:

Ike Tavares

Project Name:

Donington 25 Fed. Hwy 6074 (3-8-19)

Project Location:  
(county, state)

Lee County, New Mexico

Invoice to:

COG - Ike Tavares

Receiving Laboratory:

Xenco

Comments:

Sample Signature:

Ike Tavares

## SAMPLE IDENTIFICATION

LAB #  
(LAB USE ONLY)

SAMPLING  
YEAR: DATE TIME

MATRIX  
WATER SOIL HCL HNO<sub>3</sub> ICE  
PRESERVATIVE METHOD

# CONTAINERS  
FILTERED (Y/N)

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

## ANALYSIS REQUEST (Circle or Specify Method No.)

Relinquished by:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:

Relinquished by:

Received by:

Date: Time:

Relinquished by:

Received by:

Date: Time:

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In



Client: COG Operating LLC

Date/ Time Received: 05/03/2019 08:42:00 AM

Work Order #: 623115

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

### Sample Receipt Checklist

### Comments

#1 *Temperature of cooler(s)?	1.2
#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
#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)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

*Brianna Teel*

Brianna Teel

Date: 05/03/2019

Checklist reviewed by:

*Jessica Kramer*

Jessica Kramer

Date: 05/03/2019

## Photos