



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

EOG Resources, Inc.

Closure Report

Empanada 6 Federal #1

30-025-36919

NRM2000248431

Section 6, T13S-R35E

Lea County, New Mexico

May 26, 2020

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I. Description of remediation activities

On November 11, 2019, EOG Resources, Inc. submitted to the NMOCD District I office a Form C-141, Release Notification for the release of 103 B/Produced Water with 25 B/Produced Water recovered. The affected area is approximately 4,075 square feet within the primary berm of the battery, the east edge of the production pad and an area of the production pad between the well and the battery. The release was caused by a drain valve on the back of the water tank that froze and failed, which caused the release. A vacuum truck was called and recovered the remaining produced water from the tank and what remained within the battery. A backhoe was dispatched and excavated contaminated soils from inside the bermed battery and the surface of the pad, contaminated soils were disposed at an NMOCD approved facility. This excavated area was approximately 60' X 34' (Battery area, green), 55' X 6' (Pad are, blue) and 40' X 50' (Pad area, yellow), Appendix 5. These soils will be taken to an approved NMOCD facility (Figure 1).

Based off of sample results, EOG Resources, Inc. will had a contractor further excavate soils and dispose at an approved facility from the following areas: S-1.PBL, S-1.PV, S-1.PO, S-1.BY, S-1.BBL, S-1.BP, SW-1, SW-2, which were above Table I, Closure Criteria for <50 feet groundwater levels. EOG will sample the six (6) areas listed in the Scope of Work to confirm that the area impacted by the release are below limits listed in Table I, Closure Criteria for <50 feet groundwater levels. (Please note that 4/28/2020 sample ID reflects 5-2.PW, 5-2.PWWSW & 5.2-PWESW. The sample ID was miss-read by the laboratory and are for the sample area originally designated as S-1.PW)

EOG notified the appropriate division district office two business days prior to conducting final sampling. Separate representative wall and base 5-point composite samples will be collected to show horizontal and vertical remediation. Each composite sample must not be representative of more than 200 ft².

All composite and grab sample concentrations are less than or equal to the parameters listed in Table I or any conditions of approval, EOG will proceed to backfill any excavated areas with like, clean soils at a slightly greater amount that was excavated to allow for settling and compaction.

Figure 1

Scaled Site Map



Empanada 6 Federal Com #1
Site Map

Legend
● Empanada 6 Federal Com #1

Google Earth

1000 ft

Empanada 6 Federal Com #1
Field Data



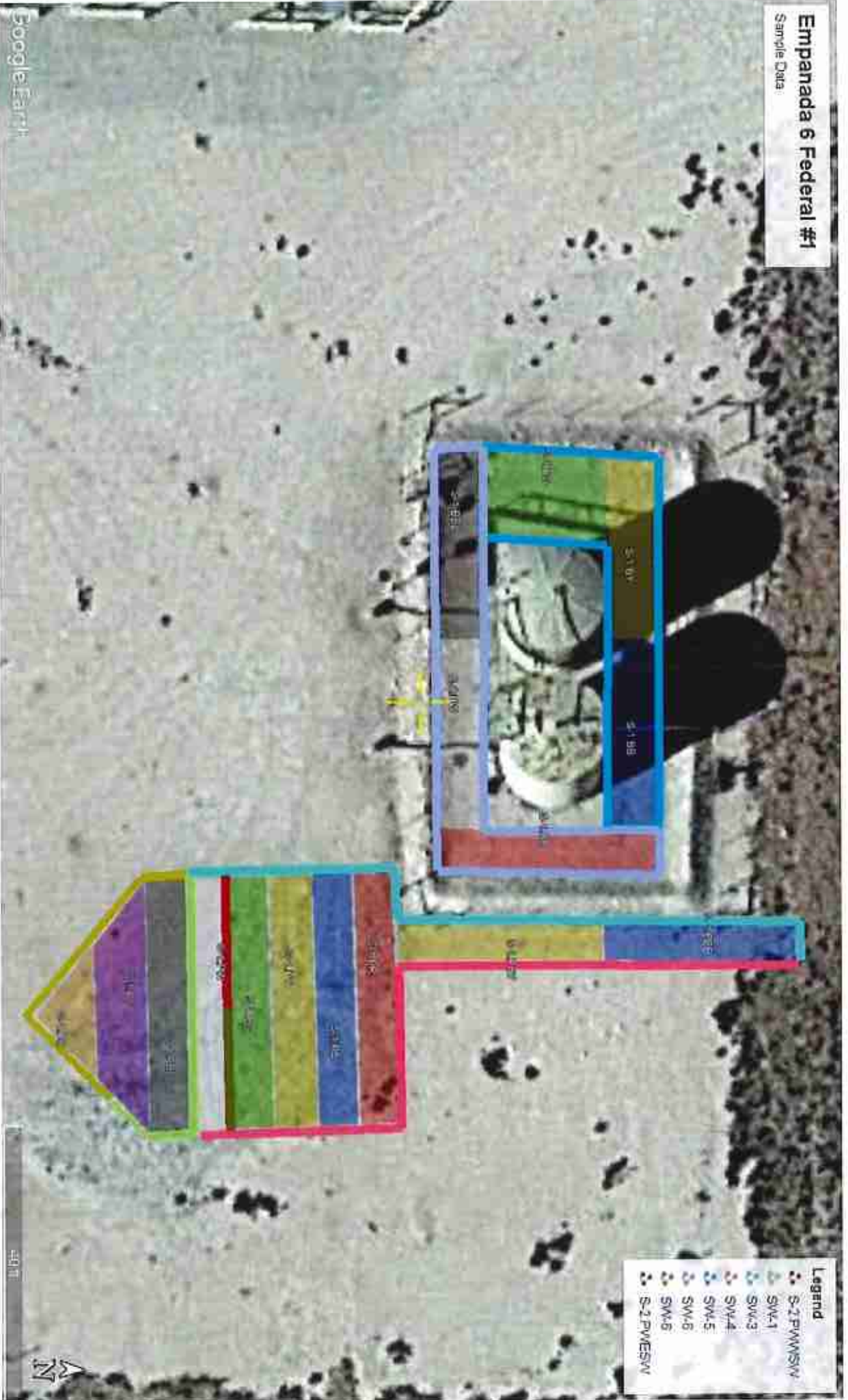
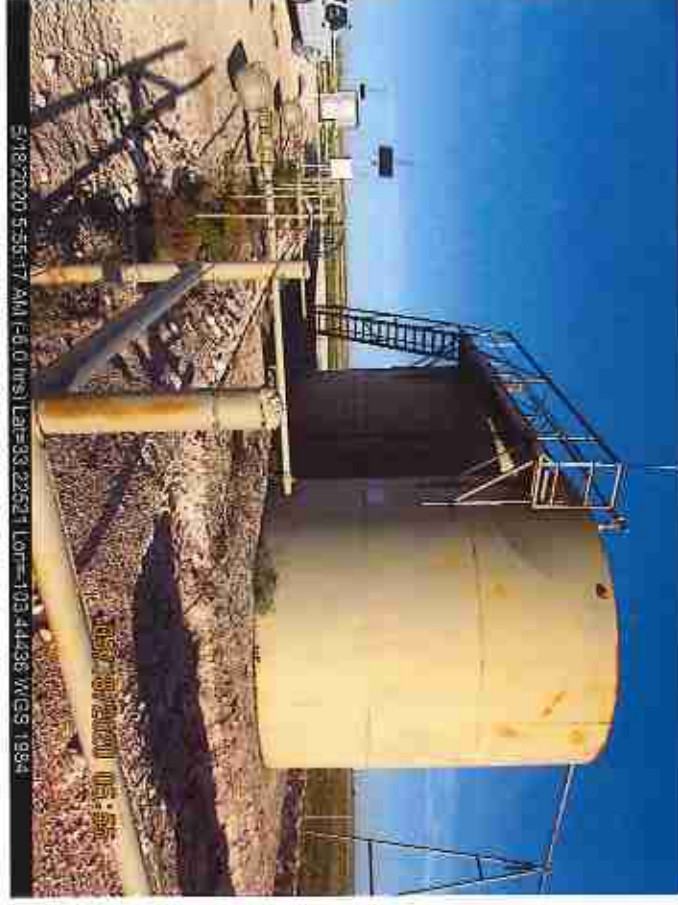


Figure 2

Photographs of the site





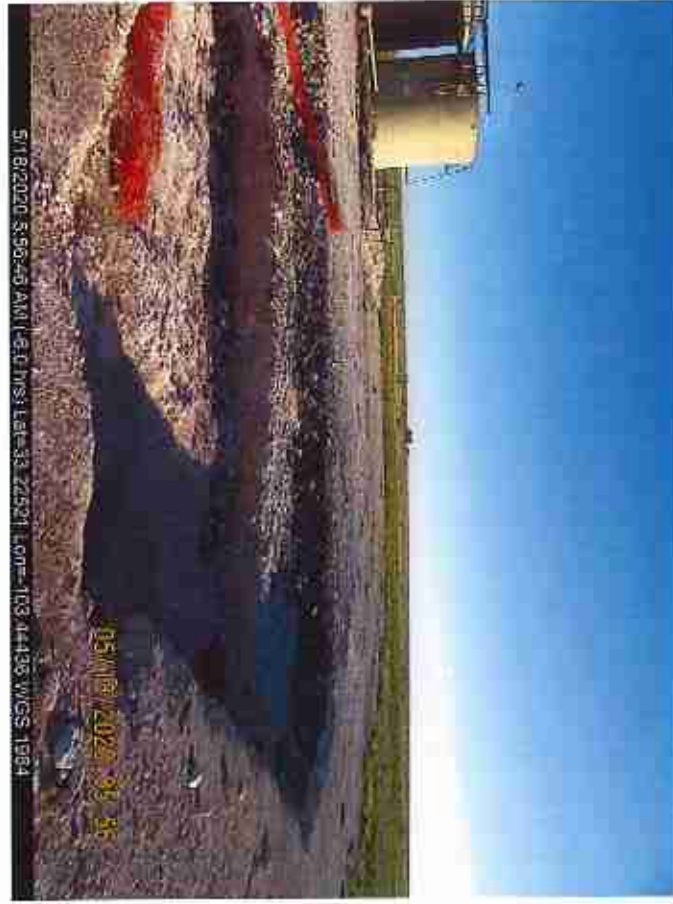


Figure 3

Laboratory Analyses of Final Sampling

Empanada 6 Federal #1
Sample Data
Per NMOCD Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	BTEX	Benzene
5-2.PW	2'	4/28/20	52.8	0	0.0000	0.0000
5-2.PWWSW	2'	4/28/20	38.9	0	0.0000	0.0000
5-2.PWESW	2'	4/28/20	80.3	0	0.0000	0.0000

NMOCD Table I Criteria			
Depth	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO +MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 5/15/2020

Job Number: 19034-0001

Work Order: P005045

Project Name/Location: Empanada 6 Federal #1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 5/19/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.

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Received by OCD: 6/12/2020 11:09:01 AM



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
05/19/20 08:58

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
5-2 . PW	P005045-01A	Soil	05/13/20	05/15/20	Glass Jar, 4 oz.
5-2 . PWWSW	P005045-02A	Soil	05/13/20	05/15/20	Glass Jar, 4 oz.
5-2 . PWESW	P005045-03A	Soil	05/13/20	05/15/20	Glass Jar, 4 oz.

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FOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empadon 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
05/19/20 08:58

5-2 . PW
P005045-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
S surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	2020028	05/15/20	05/15/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2020026	05/15/20	05/15/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2020026	05/15/20	05/15/20	EPA 8015D	
S surrogate: n-Nonane		100 %		50-200	2020026	05/15/20	05/15/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8015D	
S surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %		50-150	2020028	05/15/20	05/15/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	52.8	20.0	mg/kg	1	2020025	05/16/20	05/16/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Aaher

Reported:
05/19/20 08:58

**5-2 . PWWSW
P005045-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-FID		104 %		50-150	2020028	05/15/20	05/15/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2020026	05/15/20	05/15/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2020026	05/15/20	05/15/20	EPA 8015D	
Surrogate: n-Nonane		94.9 %		50-200	2020026	05/15/20	05/15/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %		50-150	2020028	05/15/20	05/15/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	38.9	20.0	mg/kg	1	2020025	05/16/20	05/16/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
05/19/20 08:58

**5-2 . PWESW
P005045-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8021B	
<i>Surrogate: 1-Bromochlorobenzene-P113</i>		104 %		50-150	2020028	05/15/20	05/15/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.5 %		50-200	2020028	05/15/20	05/15/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2020028	05/15/20	05/15/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-F113</i>		92.0 %		50-150	2020028	05/15/20	05/15/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	80.3	20.0	mg/kg	1	2020025	05/16/20	05/16/20	EPA 300.0/9056A	

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Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
05/19/20 08:58

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2020028 - Purge and Trap EPA 5030A

Blank (2020028-BL.K1)

Prepared: 05/15/20 0 Analyzed: 05/15/20 1

Benzene	ND	0.0250	ug/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			

LCS (2020028-BS1)

Prepared: 05/15/20 0 Analyzed: 05/15/20 1

Benzene	5.28	0.0250	mg/kg	5.00		106	70-130			
Toluene	5.26	0.0250	"	5.00		105	70-130			
Ethylbenzene	5.25	0.0250	"	5.00		105	70-130			
p,m-Xylene	10.3	0.0500	"	10.0		105	70-130			
o-Xylene	5.25	0.0250	"	5.00		105	70-130			
Total Xylenes	15.7	0.0750	"	15.0		105	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.58		"	8.00		107	50-150			

Matrix Spike (2020028-MS1)

Source: P005043-01

Prepared: 05/15/20 0 Analyzed: 05/15/20 1

Benzene	5.22	0.0250	mg/kg	5.00	ND	104	54.3-133			
Toluene	5.20	0.0250	"	5.00	ND	104	61.4-130			
Ethylbenzene	5.17	0.0250	"	5.00	ND	103	61.4-133			
p,m-Xylene	10.3	0.0500	"	10.0	ND	103	63.3-131			
o-Xylene	5.17	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.5	0.0250	"	15.0	ND	103	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		100	50-150			

Matrix Spike Dup (2020028-MSD1)

Source: P005043-01

Prepared: 05/15/20 0 Analyzed: 05/15/20 1

Benzene	5.24	0.0250	mg/kg	5.00	ND	105	54.3-133	0.414	20	
Toluene	5.21	0.0250	"	5.00	ND	104	61.4-130	0.186	20	
Ethylbenzene	5.19	0.0250	"	5.00	ND	104	61.4-133	0.266	20	
p,m-Xylene	10.4	0.0500	"	10.0	ND	104	63.3-131	0.347	20	
o-Xylene	5.18	0.0250	"	5.00	ND	104	63.3-131	0.338	20	
Total Xylenes	15.5	0.0250	"	15.0	ND	104	0-200	0.744	200	
Surrogate: 4-Bromochlorobenzene-PID	8.27		"	8.00		103	50-150			

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EOG Resources Inc. - Carlsbad	Project Name:	Empanada 6 Federal #1	Reported:
104 South 4th Street	Project Number:	19034-0001	05/19/20 08:58
Artesia NM, 88210	Project Manager:	Robert Asher	

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPI	RPD Limit	Notes
Batch 2020026 - DRO Extraction EPA 3570										
Blank (2020026-BLK1)				Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	32.8		"	50.0		100	50-200			
ICS (2020026-BS1)				Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Diesel Range Organics (C10-C28)	477	25.0	mg/kg	500		95.4	38-132			
Surrogate: n-Nonane	39.3		"	50.0		98.6	50-200			
Matrix Spike (2020026-MS1)				Source: P005043-01		Prepared: 05/15/20 0 Analyzed: 05/15/20 1				
Diesel Range Organics (C10-C28)	342	25.0	mg/kg	500	ND	68.4	38-132			
Surrogate: n-Nonane	40.0		"	50.0		80.0	50-200			
Matrix Spike Dup (2020026-MSD1)				Source: P005043-01		Prepared: 05/15/20 0 Analyzed: 05/15/20 1				
Diesel Range Organics (C10-C28)	283	25.0	mg/kg	500	ND	56.6	38-132	18.9	20	
Surrogate: n-Nonane	32.2		"	50.0		64.4	50-200			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
05/19/20 08:58

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RPL	%RPL Limits	RPD	RPD Limit	Notes
Batch 2020028 - Purge and Trap EPA 5030A										
Blank (2020028-BLK1)				Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	ug/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		*	8.00		89.8	70-130			
LCS (2020028-BS2)				Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Gasoline Range Organics (C6-C10)	50.1	20.0	ug/kg	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		*	8.00		92.6	70-130			
Matrix Spike (2020028-MS2)				Source: P005043-01 Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Gasoline Range Organics (C6-C10)	50.3	20.0	ug/kg	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		*	8.00		92.6	70-130			
Matrix Spike Dup (2020028-MSD2)				Source: P005043-01 Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Gasoline Range Organics (C6-C10)	50.9	20.0	ug/kg	50.0	ND	102	70-130	1.05	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		*	8.00		93.0	70-130			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
05/19/20 08:58

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020025 - Wet Chemistry Preparation										
Blank (2020025-BLK1)				Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2020025-BN1)				Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Chloride	249	20.0	mg/kg	250		99.8	90-110			
Matrix Spike (2020025-MS1)				Source: P005043-01 Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Chloride	111	20.0	mg/kg	250	63.2	92.4	80-120			
Matrix Spike Dup (2020025-MSD1)				Source: P005043-01 Prepared: 05/15/20 0 Analyzed: 05/15/20 1						
Chloride	111	20.0	mg/kg	250	63.2	100	80-120	0.513	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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EOG Resources Inc. - Carlsbad	Project Name:	Empanada 6 Federal #1	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Ashe	05/19/20 08:58

Notes and Definitions:

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods
- Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Chain of Custody

Client: EOG Resources, Inc.	Report due by: 5/19/2015	Report Attention	Lab Use Only	TAT	EPA Program
Project: EMERALDA 6 FEDERAL #1	Attention: Robert Asher	Address: 104 South 4th Street	Job Number	1D 3D	RCRA CWA SDWA
Project Manager: Robert Asher	Address: 104 South 4th Street	Civ. State, Zip Artesia, NM 88210	Lab WO#		
Address: 104 South 4th Street	Phone: (575) 748-4217	Email: robert.asher@eogresources.com	19034-0001		
Civ. State, Zip Artesia, NM 88210			Analysis and Method		State
Phone: (575) 748-4217					
Email: robert.asher@eogresources.com					

[illegible]

Additional Instructions:

PO# 205632

1. Field samples, attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on Ice: ☒ Y ☐ N T1 T2 T3 AVG Temp °C
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sl - Solid, Sp - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by this CDC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech
Analytical Laboratory

5795 US Highway 64, Farmington, NM 87401
24 hour Emergency Response Phone (800)

PH (505) 832-0615 FX (505) 832-1865

info@conviecthinc.com
www.conviecthinc.com

Empanada 6 Federal #1
Sample Data
Per NMOC Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	BTEX	Benzene
S-1.PR	1'	4/8/20	37.2	0	0.0000	0.0000
S-1.PB	1'	4/8/20	48.6	0	0.0000	0.0000
S-1.PY	1'	4/8/20	80	62.2	0.0000	0.0000
S-1.PG	1'	4/8/20	43.9	0	0.0000	0.0000
S-1.PW	1'	4/8/20	619	0	0.0000	0.0000
S-3.PBL	1'	4/8/20	20	0	0.2190	0.0000
S-3.PV	1'	4/8/20	22.8	0	0.0264	0.0000
S-3.PO	1'	4/8/20	20.8	0	0.0000	0.0000
S-1.PBB	1'	4/8/20	47.8	0	0.0000	0.0000
S-1.PBY	1'	4/8/20	34.9	0	0.0000	0.0000
S-1.BR	1'	4/8/20	0	0	0.2244	0.0000
S-1.BB	1'	4/8/20	0	0	0.0000	0.0000
S-1.BY	1'	4/8/20	0	0	0.2100	0.0000
S-1.BG	1'	4/8/20	33.9	0	0.0000	0.0000
S-1.BBL	1'	4/8/20	0	0	0.0000	0.0000
S-1.BW	1'	4/8/20	65.9	0	0.0000	0.0000
Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	BTEX	Benzene
SW-1.3	1'	4/8/20	95	0	0.0000	0.0000
SW-2.3	1'	4/8/20	64.5	0	0.0000	0.0000
SW-3.1	1'	4/8/20	492.0	0	0.0000	0.0000
SW-4.1	1'	4/8/20	73.6	0	0.0000	0.0000
SW-5.1	1'	4/8/20	30.8	0	0.0000	0.0000
SW-6.1	1'	4/8/20	0	0	0.0000	0.0000

Page 26 of 155
Received by OCD: 6/12/2020 11:09:01 AM



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 4/9/2020

Job Number: 19034-0001

Work Order: P004026

Project Name/Location: Empanada 6 Federal #1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 4/10/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.PR	P004026-01A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.PB	P004026-02A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.PY	P004026-03A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.PG	P004026-04A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.PW	P004026-05A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-3.PBL	P004026-06A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-3.PV	P004026-07A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-3.PO	P004026-08A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.PBB	P004026-09A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.PBY	P004026-10A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.BR	P004026-11A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.BB	P004026-12A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.BY	P004026-13A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.BG	P004026-14A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.BBL	P004026-15A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
S-1.BW	P004026-16A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
SW-1.3	P004026-17A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
SW-2.3	P004026-18A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
SW-3.1	P004026-19A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
SW-4.1	P004026-20A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
SW-5.1	P004026-21A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.
SW-6.1	P004026-22A	Soil	04/08/20	04/09/20	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.PR
P004026-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 1-Bromochlorobenzene-PID		103 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - BRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		92.2 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	37.2	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.PB
P004026-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 1-Bromochlorobenzene-2H115		106 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-1-fluorobenzene-FID		90.9 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	48.6	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.PY
P004026-03 (Solid)

Repeating

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	62.1	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	62.2	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		91.9 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	80.0	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.PC
P004026-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-P113

106.9% 50-150 2015018 04/09/20 04/09/20 EPA 8021B

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	

Surrogate: n-Nonane

92.8% 50-200 2015017 04/09/20 04/09/20 EPA 8015D

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
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Surrogate: 1-Chloro-4-fluorobenzene-P111

88.0% 50-150 2015018 04/09/20 04/09/20 EPA 8015D

Anions by 300.0/9056A

Chloride	43.9	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.PW
P004026-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-PID

106 % 50-150 2015018 04/09/20 04/09/20 EPA 8021B

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	

Surrogate: n-Nonane

103 % 50-200 2015017 04/09/20 04/09/20 EPA 8015D

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
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Surrogate: 1-Chloro-2-fluorobenzene-FID

93.3 % 50-150 2015018 04/09/20 04/09/20 EPA 8015D

Anions by 300.0/9056A

Chloride	619	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Ariesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-3.PBL
P004026-06 (Solid)

Reporting:

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatiles Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P111		105 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		82.6 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F11		91.6 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	20.0	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Ariesia NM, 88210

Project Name: Empirada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-3,PV
P004026-07 (Solid)

Reporting

Analyte:	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
S surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
S surrogate: n-Nonane		81.2 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
S surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	22.8	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-3.PO
P004026-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-150		2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		82.2 %	50-200		2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	50-150		2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	20.8	20.0	ug/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlisbad	Project Name:	Empinada 6 Federal #1	Reported:
104 South 4th Street	Project Number:	19034-0001	04/10/20 11:28
Artesia NM, 88210	Project Manager:	Robert Asher	

S-1.PBB
P004026-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 1-Bromochlorobenzene-PID		104 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		93.4 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloro-4-fluorobenzene-PID		89.2 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	47.8	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Arliesia NM, 88210

Project Name: Empirada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.PBY
P004026-10 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 1-Bromochlorobenzene-P10		105 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		90.1 %		30-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-2-fluorobenzene-F10		90.9 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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FOI Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.BR
P004026-11 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		89.7 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		88.8 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empirada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.BB
P004026-12 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 1-Bromochlorobenzene-PID		104 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		88.6 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,4-Dimethylfluorobenzene-FID		90.4 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2013023	04/09/20	04/09/20	EPA 300.0/9056A	
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EOG Resources Inc. - Carlisle
104 South 4th Street
Arlington, NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.BV
P004026-13 (Solid)

Reporting:

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromobenzene-PID		103 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		93.6 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		89.3 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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FOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada G Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.BG
P004026-14 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021A	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PHD		106 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		91.6 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	33.9	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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Envirotech Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.BBL
P004026-15 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-1,1D		108 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		92.1 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

S-1.BW
P004026-16 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021H	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021H	
Surrogate: 1-Bromochlorobenzene-PID		107 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	47.0	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		94.4 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	65.9	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlstad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Aslier

Reported:
04/10/20 11:28

SW-1.3
P004026-17 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		79.3 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	95.0	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlisbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 04/10/20 11:28
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SW-2.3
P004026-18 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-150		2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		73.0 %	50-200		2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		91.6 %	50-150		2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	64.5	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

SW-3.1
P004026-19 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		89.5 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		94.2 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	492	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Emparada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

SW-4.1
P004026-20 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %		50-150	2015018	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015017	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		93.5 %		50-200	2015017	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015018	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %		50-150	2015018	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	73.6	20.0	mg/kg	1	2015023	04/09/20	04/09/20	EPA 300.0/9056A	

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FOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

SW-5.1

P004026-21 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P10		103 %		50-150	2015020	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		90.2 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-1-fluorobenzene-P10		94.1 %		50-150	2015020	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	30.8	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Arltesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

SW-6.1
P004026-22 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	2015020	04/09/20	04/09/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nitrotol		103 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		89.7 %		50-150	2015020	04/09/20	04/09/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	

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FOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empasada 6 Federal #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 04/10/20 11:28
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2015018 - Purge and Trap EPA 5030A										
Blank (2015018-BL.K1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0250	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
S surrogate: 4-Bromochlorobenzene-PID	2.45		"	N.D.		106	30-150			
LCS (2015018-BS1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Benzene	4.53	0.0250	mg/kg	5.00		90.6	70-130			
Toluene	4.77	0.0250	"	5.00		95.5	70-130			
Ethylbenzene	4.87	0.0250	"	5.00		97.4	70-130			
p,m-Xylene	9.74	0.0500	"	10.0		97.4	70-130			
o-Xylene	4.92	0.0250	"	5.00		98.5	70-130			
Total Xylenes	14.7	0.0250	"	15.0		97.8	0-200			
S surrogate: 4-Bromochlorobenzene-PID	6.71		"	N.D.		109	30-150			
Matrix Spike (2015018-MS1)				Source: P004026-01	Prepared: 04/09/20 0 Analyzed: 04/09/20 2					
Benzene	4.13	0.0250	mg/kg	5.00	ND	82.6	54.3-133			
Toluene	4.36	0.0250	"	5.00	ND	87.2	61.4-130			
Ethylbenzene	4.29	0.0250	"	5.00	ND	85.7	61.4-133			
p,m-Xylene	8.94	0.0500	"	10.0	ND	89.4	63.3-131			
o-Xylene	4.52	0.0250	"	5.00	ND	90.4	63.3-131			
Total Xylenes	13.5	0.0250	"	15.0	ND	89.8	0-200			
S surrogate: 4-Bromochlorobenzene-PID	8.63		"	8.00		108	30-150			
Matrix Spike Dup (2015018-MSD1)				Source: P004026-01	Prepared: 04/09/20 0 Analyzed: 04/09/20 2					
Benzene	4.69	0.0250	mg/kg	5.00	ND	93.9	54.3-133	12.9	30	
Toluene	4.96	0.0250	"	5.00	ND	99.2	61.4-130	12.9	30	
Ethylbenzene	5.11	0.0250	"	5.00	ND	102	61.4-133	12.9	30	
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131	12.6	30	
o-Xylene	5.12	0.0250	"	5.00	ND	103	63.3-131	12.6	30	
Total Xylenes	15.3	0.0250	"	15.0	ND	102	0-200	12.7	200	
S surrogate: 4-Bromochlorobenzene-PID	8.84		"	8.00		110	30-150			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Emparada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%RUC Limits	RPD	RPD Limit	Notes
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Batch 2015020 - Purge and Trap EPA 5030A

Blank (2015020-BLK1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.50		"	8.00		106	50-150			

LCS (2015020-BS1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	4.11	0.0250	mg/kg	5.00		82.2	70-130			
Toluene	4.43	0.0250	"	5.00		88.6	70-130			
Ethylbenzene	4.45	0.0250	"	5.00		89.0	70-130			
p,m-Xylene	8.85	0.0500	"	10.0		88.5	70-130			
o-Xylene	4.45	0.0250	"	5.00		88.9	70-130			
Total Xylenes	13.3	0.0250	"	15.0		88.6	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.64		"	8.00		108	50-150			

Matrix Spike (2015020-MS1)

Source: P004011-03

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	4.57	0.0250	mg/kg	5.00	ND	91.5	54.3-133			
Toluene	4.94	0.0250	"	5.00	ND	98.8	61.4-130			
Ethylbenzene	4.99	0.0250	"	5.00	ND	99.8	61.4-133			
p,m-Xylene	9.91	0.0500	"	10.0	ND	99.1	61.3-131			
o-Xylene	4.95	0.0250	"	5.00	ND	99.1	61.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.71		"	8.00		109	50-150			

Matrix Spike Dup (2015020-MSD1)

Source: P004011-03

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Benzene	4.42	0.0250	mg/kg	5.00	NT	88.4	54.3-133	1.41	20	
Toluene	4.76	0.0250	"	5.00	NT	95.2	61.4-130	1.74	20	
Ethylbenzene	4.82	0.0250	"	5.00	NT	96.4	61.4-133	1.45	20	
p,m-Xylene	9.56	0.0500	"	10.0	NT	95.6	61.3-131	1.59	20	
o-Xylene	4.78	0.0250	"	5.00	NT	95.6	61.3-131	1.57	20	
Total Xylenes	14.3	0.0250	"	15.0	NT	95.6	0-200	1.59	200	
Surrogate: 4-Bromochlorobenzene-PID	8.69		"	8.00		109	50-150			

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HCG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 04/10/20 11:28
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Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPI	RPI Limit	Notes
Batch 2015016 - DRO Extraction EPA 3570										
Blank (2015016-BL K1)					Prepared & Analyzed: 04/09/20 0					
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C29-C40)	ND	50.0								
Surrogate: n-Nonane	44.4		"	30.0		88.8	50-200			
LCN (2015016-BS1)					Prepared: 04/09/20 0 Analyzed: 04/09/20 1					
Diesel Range Organics (C10-C28)	471	25.0	mg/kg	500		94.2	38-132			
Surrogate: n-Nonane	47.3		"	30.0		94.7	30-100			
Matrix Spike (2015016-MS1)					Source: P004024-07	Prepared: 04/09/20 0 Analyzed: 04/09/20 1				
Diesel Range Organics (C10-C28)	520	25.0	mg/kg	500	30.3	91.9	38-132			
Surrogate: n-Nonane	11.7		"	50.0		69.3	50-200			
Matrix Spike Dup (2015016-MSD1)					Source: P004024-07	Prepared: 04/09/20 0 Analyzed: 04/09/20 2				
Diesel Range Organics (C10-C28)	511	25.0	mg/kg	500	30.3	100	38-132	1.08	20	
Surrogate: n-Nonane	49.8		"	30.0		99.6	50-200			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Ariesia NM, 88210

Project Name: Empanada 6 Federal #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
04/10/20 11:28

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2015017 - DRO Extraction EPA 3570										
Blank (2015017-BL.K1)				Prepared & Analyzed: 04/09/20 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	52.2		"	50.0		105	50-200			
LCS (2015017-BS1)				Prepared & Analyzed: 04/09/20 0						
Diesel Range Organics (C10-C28)	439	25.0	mg/kg	500		87.8	38-132			
Surrogate: n-Nonane	45.5		"	50.0		90.9	50-200			
Matrix Spike (2015017-MS1)				Source: P004026-01	Prepared: 04/09/20 0 Analyzed: 04/09/20 1					
Diesel Range Organics (C10-C28)	441	25.0	mg/kg	500	ND	88.2	38-132			
Surrogate: n-Nonane	47.2		"	50.0		91.3	50-200			
Matrix Spike Dup (2015017-MSD1)				Source: P004026-01	Prepared: 04/09/20 0 Analyzed: 04/09/20 2					
Diesel Range Organics (C10-C28)	441	25.0	mg/kg	500	ND	88.2	38-132	0.669	20	
Surrogate: n-Nonane	46.8		"	50.0		91.9	50-200			

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EOG Resources Inc. - Carlsbad	Project Name:	Empanada 6 Federal #1	Reported:
104 South 4th Street	Project Number:	19034-0001	04/10/20 11:28
Artesia NM, 88210	Project Manager:	Robert Asher	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2015018 - Purge and Trap EPA 5030A										
Blank (2015018-BLK1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
S surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		"	8.00		91.7	50-150			
LCS (2015018-BS2)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Gasoline Range Organics (C6-C10)	44.7	20.0	mg/kg	50.0		89.4	70-130			
S surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		"	8.00		91.0	50-150			
Matrix Spike (2015018-MS2)				Source: P004026-01 Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Gasoline Range Organics (C6-C10)	51.8	20.0	mg/kg	50.0	ND	104	70-130			
S surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		"	8.00		91.1	50-150			
Matrix Spike Dup (2015018-MSD2)				Source: P004026-01 Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Gasoline Range Organics (C6-C10)	49.8	20.0	mg/kg	50.0	ND	99.6	70-130	1.89	20	
S surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		91.1	50-150			

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FOG Resources Inc. - Carlshad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 04/10/20 11:28
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Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 2015020 - Purge and Trap EPA 5030A										
Blank (2015020-BLK1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		*	8.00		88.5	50-150			
I.C.S (2015020-BS2)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Gasoline Range Organics (C6-C10)	44.9	20.0	mg/kg	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		"	8.00		88.5	50-150			
Matrix Spike (2015020-MS2)				Source: P004011-03 Prepared: 04/09/20 0 Analyzed: 04/10/20 0						
Gasoline Range Organics (C6-C10)	46.3	20.0	mg/kg	50.0	ND	92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		*	8.00		88.5	50-150			
Matrix Spike Dup (2015020-MSD2)				Source: P004011-03 Prepared: 04/09/20 0 Analyzed: 04/10/20 0						
Gasoline Range Organics (C6-C10)	49.8	20.0	mg/kg	50.0	ND	99.7	70-130	6.98	30	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		*	8.00		90.6	50-150			

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ECGI Resources Inc. - Carlshad	Project Name:	Empanada 6 Federal #1	Reported:
104 South 4th Street	Project Number:	19034-0001	04/10/20 11:28
Artesia NM, 88210	Project Manager:	Robert Asher	

Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RHC	%REC Limits	RPD	RPT Limit	Notes
Batch 2015022 - Anion Extraction EPA 300.0/9056A										
Blank (2015022-BL.K1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Chloride	ND	20.0	mg/lit							
LCS (2015022-BS1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Chloride	249	20.0	mg/kg	250		99.5	96-110			
Matrix Spike (2015022-MS1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Chloride	254	20.0	mg/kg	250	ND	102	80-120			
Matrix Spike Dup (2015022-MSD1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Chloride	254	20.0	mg/kg	250	ND	102	80-120	0.102	20	

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EOG Resources Inc. - Carlisbad 104 South 4th Street Ariesia NM, 88210	Project Name: Empánada 6 Federal #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 04/10/20 11:28
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2015023 - Anion Extraction EPA 300.0/9056A										
Blank (2015023-BLK1)										
Chloride	ND	20.0	mg/kg							Prepared: 04/09/20 0 Analyzed: 04/09/20 2
ICS (2015023-BS1)										
Chloride	255	20.0	mg/kg	250		102	90-110			Prepared: 04/09/20 0 Analyzed: 04/09/20 2
Matrix Spike (2015023-MS1)										
Chloride	399	20.0	mg/kg	250	37.2	109	80-120			Source: P004026-01 Prepared: 04/09/20 0 Analyzed: 04/09/20 2
Matrix Spike Dup (2015023-MSD1)										
Chloride	311	20.0	mg/kg	250	37.2	110	80-120	0.897	20	Source: P004026-01 Prepared: 04/09/20 0 Analyzed: 04/09/20 2

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Received by OCD: 6/12/2020 11:09:01 AM



EOG Resources Inc. - Carlsbad	Project Name:	Empanada 6 Federal #1	Reported:
104 South 4th Street	Project Number:	19034-0001	04/10/20 11:28
Artesia NM, 88210	Project Manager:	Robert Asher	

Notes and Definitions:

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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[illegible]

Project Information				Chain of Custody				Page 2 of 3				
Client: EOG Resources, Inc.				Report Attention				Lab Use Only				
Project: <u>EMERGENCY - FEDERAL #1</u>				Report due by: <u>4/10/2020</u>				Job Number: <u>14634-0001</u>				
Project Manager: Robert Asher				Attention: Robert Asher				Analysis and Method				
Address: 104 South 4th Street				Address: 104 South 4th Street				State				
City, State, Zip: Artesia, NM 88210				City, State, Zip: Artesia, NM 88210				NM CO UT AZ				
Phone: (575) 748-4217				Phone: (575) 748-4217				X				
Email: robert.asher@eogresources.com				Email: robert.asher@eogresources.com				Remarks				
Time Sampled	Date Sampled	Matrix	No. Containers	Sample ID	Lab Number	CRD/ORD by 8015	GRD/ORD by 8015	WEEK by 8021	VOC by 8260	Metals 6010	Chloride 3000	State
1048A	4/8/20	Soil	1	S-1-BR	11	X	X	X		X	X	
1053A	~	-X	~	S-1-BB	12	X	X	X		X	X	
1059A	~	-X	~	S-1-BV	13	X	X	X		X	X	
1104A	~	-X	~	S-1-BG	14	X	X	X		X	X	
1109A	~	-X	~	S-1-BBL	15	X	X	X		X	X	
1113A	~	-X	~	S-1-BW	16	X	X	X		X	X	
1118A	~	-X	~	SW-1.3	17	X	X	X		X	X	
1124A	~	-X	~	SW-2.3	18	X	X	X		X	X	
1133A	~	-X	~	SW-3.1	19	X	X	X		X	X	
1138A	~	-X	~	SW-4.1	20	X	X	X		X	X	

Additional Instructions:
 PO# 205632
 I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/8	3:28 PM	<i>Raven Lopez</i>	4/9/20	9:30

Lab Use Only
 Received on ice: Q / N
 T1 13
 T2 4
 T3 13
 AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech
Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401
 24 hour Emergency Response Phone (800) 362-1875

Ph (505) 632-0615 FX (505) 632-1655

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 labdata@envirotech-nm.com

[illegible]

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Analytical Laboratory

5795 US Highway 64, Farmington, NM 87401
24 hour Emergency Response Phone (800) 382-1879

PH (505) 632-0616 FX (505) 632-1865

enr.technology.com
 enr.com/enrantedline.com

Empanada 6 Federl #1
Sample Data
Per NMOCD Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	BTEX	Benzene
S-1,PBL	3'	2/24/20	472	0	0.0000	0.0000
S-1,PV	3'	2/24/20	765	0	0.0000	0.0000
S-1,PO	3'	2/24/20	477	0	0.0000	0.0000
Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	BTEX	Benzene
S-1,PBL	3'	3/5/20	22.7	0	0.0000	0.0000
S-1,PV	3'	3/5/20	20.9	0	0.0000	0.0000
S-1,PO	3'	3/5/20	23.4	0	0.0000	0.0000
Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	BTEX	Benzene
SW-1	3'	3/5/20	108	0	0.0000	0.0000
SW-2	3'	3/5/20	51	0	0.0000	0.0000

NMOCD Table I Criteria			
Depth	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO +MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 2/26/2020

Job Number: 19034-0001

Work Order: P002081

Project Name/Location: Empanada 6 Federal Com
#1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 3/3/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM006792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.

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Received by OCD: 6/12/2020 11:09:01 AM



FOG Resources Inc. - Carlsbad	Project Name:	Empireada 6 Federal Com #1	Reported:
104 South 4th Street	Project Number:	19034-0001	01/03/20 13:38
Artesia NM, 88210	Project Manager:	Robert Asher	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.PRL (3')	P002081-01A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
S-1.PV (3')	P002081-02A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
S-1.PO (3')	P002081-03A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:38

S-1.PBL (3')
P002081-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009015	02/28/20	02/28/20	EPA 8021H	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009015	02/28/20	02/28/20	EPA 8021H	
Surrogate: 4-Bromochlorobenzene-P111		104 %		50-150	2009035	02/28/20	02/28/20	EPA 8021H	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		89.7 %		50-200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F111		93.2 %		50-150	2009035	02/28/20	02/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	473	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:38

S-1.PV (3')
P002081-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P113		106 %		50-150	2009035	02/28/20	02/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		83.3 %		50-200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		92.6 %		50-150	2009035	02/28/20	02/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	755	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empressada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:38

S-1, PO (3')
P002081-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	ug/kg	1	2009035	02/28/20	02/28/20	EPA 8021H	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	ug/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	ug/kg	1	2009035	02/28/20	02/28/20	EPA 8021H	
Surrogate: 4-Bromochlorobenzene-P11		106 %		50-150	2009035	02/28/20	03/28/20	EPA 8021H	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	ug/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		85.6 %		50-200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F11		92.8 %		50-150	2009035	02/28/20	02/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	477	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlisbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:38

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2009035 - Purge and Trap EPA 5030A

Blank (2009035-BL.K1)

Prepared & Analyzed: 02/28/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	5.00		100	50-150			

LCS (2009035-RS1)

Prepared & Analyzed: 02/28/20 1

Benzene	4.96	0.0250	mg/kg	5.00		99.1	70-130			
Toluene	4.97	0.0250	"	5.00		99.4	70-130			
Ethylbenzene	4.97	0.0250	"	5.00		99.3	70-130			
p,m-Xylene	9.92	0.0500	"	10.0		99.2	70-130			
o-Xylene	4.98	0.0250	"	5.00		99.6	70-130			
Total Xylenes	14.9	0.0250	"	15.0		99.3	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.31		"	8.00		106	30-150			

Matrix Spike (2009035-MS1)

Source: P002081-01

Prepared & Analyzed: 02/28/20 1

Benzene	4.89	0.0250	mg/kg	5.00	ND	97.7	54.3-133			
Toluene	4.87	0.0250	"	5.00	ND	97.9	61.4-130			
Ethylbenzene	4.89	0.0250	"	5.00	ND	97.7	61.4-133			
p,m-Xylene	9.76	0.0500	"	10.0	ND	97.6	63.3-131			
o-Xylene	4.89	0.0250	"	5.00	ND	97.9	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	97.7	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.77		"	8.00		107	30-150			

Matrix Spike Dup (2009035-MSD1)

Source: P002081-01

Prepared & Analyzed: 02/28/20 1

Benzene	5.01	0.0250	mg/kg	5.00	ND	100	54.3-133	2.42	20	
Toluene	4.98	0.0250	"	5.00	ND	99.6	61.4-130	1.78	20	
Ethylbenzene	4.97	0.0250	"	5.00	ND	99.4	61.4-133	1.71	20	
p,m-Xylene	9.92	0.0500	"	10.0	ND	99.2	63.3-131	1.64	20	
o-Xylene	4.97	0.0250	"	5.00	ND	99.4	63.3-131	1.57	20	
Total Xylenes	14.9	0.0250	"	15.0	ND	99.3	0-200	1.62	200	
Surrogate: 4-Bromochlorobenzene-PID	8.43		"	8.00		105	30-150			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:38

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010005 - DRO Extraction EPA 3570										
Blank (2010005-B1-K1)				Prepared & Analyzed: 03/02/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	47.2		"	50.0		94.4	50-200			
LCS (2010005-B51)				Prepared & Analyzed: 03/02/20 1						
Diesel Range Organics (C10-C28)	436	25.0	mg/kg	500		87.2	38-132			
Surrogate: n-Nonane	47.9		"	50.0		95.9	50-200			
Matrix Spike (2010005-MS1)				Source: P002081-01		Prepared & Analyzed: 03/02/20 1				
Diesel Range Organics (C10-C28)	427	25.0	mg/kg	500	ND	85.4	38-132			
Surrogate: n-Nonane	46.6		"	50.0		93.2	50-200			
Matrix Spike Dup (2010005-MSD1)				Source: P002081-01		Prepared & Analyzed: 03/02/20 1				
Diesel Range Organics (C10-C28)	429	25.0	mg/kg	500	ND	85.8	38-132	0.445	20	
Surrogate: n-Nonane	47.4		"	50.0		94.8	50-200			

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EGG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empirada 6 Federal Cons #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:38

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009035 - Purge and Trap EPA 5030A										
Blank (2009035-BL K1)				Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	1.53		"	8.00		94.1	50-150			
LCS (2009035-BL S2)				Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	47.6	20.0	mg/kg	50.0		95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		"	8.00		94.8	50-150			
Matrix Spike (2009035-MS2)				Source: P002081-01		Prepared & Analyzed: 02/28/20 1				
Gasoline Range Organics (C6-C10)	66.0	20.0	mg/kg	50.0	ND	91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		"	8.00		95.1	50-150			
Matrix Spike Dup (2009035-MSD2)				Source: P002081-01		Prepared & Analyzed: 02/28/20 1				
Gasoline Range Organics (C6-C10)	47.0	20.0	mg/kg	50.0	ND	91.1	70-130	2.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		"	8.00		93.9	50-150			

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Received by OCD: 6/12/2020 11:09:01 AM



EOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal Com #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 03/03/20 13:38
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Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyst	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009037 - Anion Extraction EPA 300.0/9056A										
Blank (2009037-BLK1)				Prepared & Analyzed: 02/28/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2009037-BS1)				Prepared & Analyzed: 02/28/20 1						
Chloride	247	20.0	mg/kg	250		98.9	90-110			
Matrix Spike (2009037-MS1)				Source: P002097-01 Prepared & Analyzed: 02/28/20 1						
Chloride	448	20.0	mg/kg	250	174	101	80-120			
Matrix Spike Dup (2009037-MSD1)				Source: P002097-01 Prepared & Analyzed: 02/28/20 1						
Chloride	441	20.0	mg/kg	250	174	98.9	80-120	1.48	30	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Received by OCD: 6/12/2020 11:09:01 AM



EOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal Com #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 03/03/20 13:38
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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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[illegible]



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 3/10/2020

Job Number: 19034-0001

Work Order: P003048

Project Name/Location: Empanada 6 Federal Com
#1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Walter Hinchman, Laboratory Director

Date: 3/12/20



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.

Page 75 of 155

Received by OCD: 6/12/2020 11:09:01 AM



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/12/20 18:51

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-3.PBL	P003048-01A	Soil	03/05/20	03/10/20	Glass Jar, 4 oz.
S-3.PV	P003048-02A	Soil	03/05/20	03/10/20	Glass Jar, 4 oz.
S-3.PO	P003048-03A	Soil	03/05/20	03/10/20	Glass Jar, 4 oz.
SW-1.3	P003048-04A	Soil	03/05/20	03/10/20	Glass Jar, 4 oz.
SW-2.3	P003048-05A	Soil	03/05/20	03/10/20	Glass Jar, 4 oz.

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1795 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fax (505) 632-1865

24 Hour Emergency Response Phone (800) 262-1878

envirotech-inc.com

LabAdmin@envirotech-inc.com



EOG Resources Inc. - Carlsbad
104 South 4th Street
Arlonia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/12/20 18:51

S-3.PBL
P003048-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P111		107 %		50-150	2011017	03/10/20	03/11/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		84.7 %		50-200	2011025	03/11/20	03/12/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F111		95.2 %		50-150	2011017	03/10/20	03/11/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	22.7	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada & Federal Cor. #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 03/12/20 18:51
--	---	-----------------------------

S-3.PV
P003048-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	2011017	03/10/20	03/11/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		86.5 %		50-200	2011025	03/11/20	03/12/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8015D	
Surrogate: 1,1'-bromo-4-fluorobenzene-PID		92.7 %		30-150	2011017	03/10/20	03/11/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	20.9	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Con #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/12/20 18:51

S-3.10
P003048-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	2011017	03/10/20	03/11/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		82.1 %		50-200	2011025	03/11/20	03/12/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %		50-150	2011017	03/10/20	03/11/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	23.4	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Ariesia NM, 88210

Project Name: Empirada 6 Federal Conn #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/12/20 18:51

SW-1.3
P003048-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-1110		10.5 %		50-150	2011017	03/10/20	03/11/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		85.9 %		50-200	2011025	03/11/20	03/12/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FM		93.1 %		50-150	2011017	03/10/20	03/11/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	108	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

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ECG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Emparada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/12/20 18:51

SW-2.3
P003048-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PHD		106 %		50-150	2011017	03/10/20	03/11/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	25.4	25.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011025	03/11/20	03/12/20	EPA 8015D	
Surrogate: n-Nonane		87.9 %		50-200	2011025	03/11/20	03/12/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011017	03/10/20	03/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PHD		95.1 %		50-150	2011017	03/10/20	03/11/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	51.4	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Ariesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/12/20 18:51

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
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Batch 2011017 - Purge and Trap EPA 5030A

Blank (2011017-BLK1)

Prepared & Analyzed: 03/10/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
S surrogate: 4-Bromochlorobenzene-PID	8.27		"	8.00		103	50-150			

LCS (2011017-BS1)

Prepared & Analyzed: 03/10/20 1

Benzene	4.81	0.0250	mg/kg	5.00		96.1	70-130			
Toluene	4.93	0.0250	"	5.00		98.6	70-130			
Ethylbenzene	5.00	0.0250	"	5.00		100	70-130			
p,m-Xylene	9.99	0.0500	"	10.0		99.9	70-130			
o-Xylene	5.02	0.0250	"	5.00		100	70-130			
Total Xylenes	15.0	0.0250	"	15.0		100	0-200			
S surrogate: 4-Bromochlorobenzene-PID	8.45		"	8.00		106	50-150			

Matrix Spike (2011017-MS1)

Source: P003042-01

Prepared: 03/10/20 1 Analyzed: 03/10/20 2

Benzene	1.83	0.0250	mg/kg	5.00	ND	93.6	54.3-133			
Toluene	1.79	0.0250	"	5.00	ND	95.8	61.4-130			
Ethylbenzene	1.85	0.0250	"	5.00	ND	96.9	61.4-133			
p,m-Xylene	9.67	0.0500	"	10.0	ND	98.7	63.3-131			
o-Xylene	1.38	0.0250	"	5.00	ND	97.8	63.3-131			
Total Xylenes	14.6	0.0250	"	15.0	ND	97.0	0-200			
S surrogate: 4-Bromochlorobenzene-PID	8.59		"	8.00		107	50-150			

Matrix Spike Dup (2011017-MSD1)

Source: P003042-01

Prepared: 03/10/20 1 Analyzed: 03/10/20 2

Benzene	4.71	0.0250	mg/kg	5.00	ND	94.2	54.3-133	1.76	30	
Toluene	4.85	0.0250	"	5.00	ND	97.1	61.4-130	1.38	30	
Ethylbenzene	4.92	0.0250	"	5.00	ND	98.3	61.4-133	1.43	30	
p,m-Xylene	9.81	0.0500	"	10.0	ND	98.1	63.3-131	1.56	30	
o-Xylene	4.94	0.0250	"	5.00	ND	98.9	63.3-131	1.27	30	
Total Xylenes	14.7	0.0250	"	15.0	ND	98.3	0-200	1.33	200	
S surrogate: 4-Bromochlorobenzene-PID	8.54		"	8.00		107	50-150			

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ECG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/12/20 18:51

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2011025 - DRO Extraction EPA 3570										
Blank (2011025-BLN1)				Prepared: 03/11/20 1 Analyzed: 03/11/20 2						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Nutrient: n-Nonane	45.2		"	50.0		90.5	50-200			
LCS (2011025-BS1)				Prepared: 03/11/20 1 Analyzed: 03/11/20 2						
Diesel Range Organics (C10-C28)	408	25.0	mg/kg	500		81.5	50-132			
Nutrient: n-Nonane	44.3		"	50.0		88.5	50-200			
Matrix Spike (2011025-MS1)				Source: P003048-01 Prepared: 03/11/20 1 Analyzed: 03/12/20 0						
Diesel Range Organics (C10-C28)	107	25.0	mg/kg	500	ND	81.4	50-132			
Nutrient: n-Nonane	16.0		"	50.0		92.0	50-200			
Matrix Spike Dup (2011025-MSD1)				Source: P003048-01 Prepared: 03/11/20 1 Analyzed: 03/12/20 0						
Diesel Range Organics (C10-C28)	436	25.0	mg/kg	500	ND	85.2	50-132	4.50	20	
Nutrient: n-Nonane	45.6		"	50.0		91.2	50-200			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Arlisia NM, 88210

Project Name: Empanada 6 Federal Conn #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/12/20 18:51

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 2011017 - Purge and Trap EPA 5030A										
Blank (2011017-BLK1)				Prepared & Analyzed: 03/10/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
S surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		"	8.00		95.9	10-150			
LCS (2011017-BS2)				Prepared: 03/10/20 1 Analyzed: 03/10/20 2						
Gasoline Range Organics (C6-C10)	51.1	20.0	mg/kg	50.0		102	70-130			
S surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		"	8.00		95.1	10-150			
Matrix Spike (2011017-MS2)				Source: P003042-01 Prepared: 03/10/20 1 Analyzed: 03/10/20 2						
Gasoline Range Organics (C6-C10)	48.5	20.0	mg/kg	50.0	ND	97.1	70-130			
S surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		"	8.00		94.9	10-150			
Matrix Spike Dup (2011017-MSD2)				Source: P003042-01 Prepared: 03/10/20 1 Analyzed: 03/10/20 2						
Gasoline Range Organics (C6-C10)	48.1	20.0	mg/kg	50.0	ND	96.1	70-130	0.975	20	
S surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		"	8.00		95.7	10-150			

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ROG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal Com #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 03/12/20 18:51
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2011024 - Anion Extraction EPA 300.0/9056A										
Blank (2011024-BLK1)				Prepared & Analyzed: 03/11/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2011024-RS1)				Prepared & Analyzed: 03/11/20 1						
Chloride	250	20.0	mg/kg	250		101	90-110			
Matrix Spike (2011024-MS1)				Prepared & Analyzed: 03/11/20 1						
Chloride	308	20.0	mg/kg	250	49.9	103	80-120			
Matrix Spike Dup (2011024-MSD1)				Prepared & Analyzed: 03/11/20 1						
Chloride	309	20.0	mg/kg	250	49.9	104	80-120	0.33%	30	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/12/20 18:51

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Chain of Custody

Page 1 of 1

Project Information

Client: EOG Resources, Inc.

Project: Epanada 6 Federal Com #1

Project Manager: Robert Asher

Address: 104 South 4th Street

City, State, Zip: Artesia, NM 88210

Phone: (575) 748-4217

Email: robert.asher@eogresources.com

Report Attention

Report due by: 3/13/2020

Attention: Robert Asher

Address: 104 South 4th Street

City, State, Zip: Artesia, NM 88210

Phone: (575) 748-4217

Email: robert.asher@eogresources.com

Lab Use Only

Lab WO# P 003048

Job Number 19030-0061

Analysis and Method

EPA Program

RCRA

CWA

SDWA

TAT

1D

3D

State

NM

CO

UT

AZ

X

Remarks

BGDOC

BGDOC

BGDOC

BGDOC

BGDOC

BGDOC

BGDOC

BGDOC

BGDOC

BGDOC

BGDOC

BGDOC

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Additional Instructions:

PO# 205632

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to the samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Sample Matrix: S - Sol, L - Liquid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to the samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to the samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Sample Matrix: S - Sol, L - Liquid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to the samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4.0

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Empanada 6 Federal #1
Sample Data
Per NMOCD Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	BTEX	Benzene
SW-1	1'	2/24/20	1580	0	0.0000	0.0000
SW-2	1'	2/24/20	1470	0	0.0000	0.0000
SW-3	1'	2/24/20	64.9	0	0.0000	0.0000
SW-4	1'	2/24/20	103	0	0.0000	0.0000
SW-5	1'	2/24/20	0	0	0.0000	0.0000
SW-6	1'	2/24/20	0	31.7	0.0000	0.0000

NMOCD Table I Criteria			
Depth	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO +MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Page 88 of 155
Received by OCD: 6/12/2020 11:09:01 AM



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 2/26/2020

Job Number: 19034-0001

Work Order: P002082

Project Name/Location: Empanada 6 Federal Com
#1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 3/3/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Aptos NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-1.3	P002082-01A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-2.3	P002082-02A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-3.1	P002082-03A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-4.1	P002082-04A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-5.1	P002082-05A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.
SW-6.1	P002082-06A	Soil	02/24/20	02/26/20	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empunada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

SW-1.3
P002082-01 (Solid)

Reporting

Analyte	Result	Liquit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 1-Bromochlorobenzene-FID		104 %		50-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		91.2 %		50-200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %		50-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1580	40.0	mg/kg	2	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

SW-2.3
P002082-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene (PID)		104 %		50-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		86.6 %		50-200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1,4-Dichloro-4-fluorobenzene (PID)		93.6 %		50-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1470	100	mg/kg	5	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlisbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

SW-3.1
P002082-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P10		105 %		50-150	2009030	02/27/20	02/27/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/GRO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		88.8 %		50-200	2010005	03/02/20	03/02/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F10		92.7 %		50-150	2009030	02/27/20	02/27/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	64.9	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	
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FCG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Empariada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

SW-4.1
P002082-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	2009030	02/27/20	02/27/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	28.8	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	58.5	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		104 %		50-200	2010005	03/02/20	03/02/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		93.3 %		50-150	2009030	02/27/20	02/27/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	103	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	
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LOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal Com #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 03/03/20 13:40
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SW-5.1
P002082-05 (Solid)

Reporting									
Analyte	Result	Limit	Unit	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P10		105 %		50-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		91.7 %		50-200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F10		93.1 %		50-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Corn #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

SW-6.1
P002082-06 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P10		105 %		50-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		89.0 %		50-200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F10		95.2 %		50-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Empariada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2009030 - Purge and Trap EPA 5030A

Blank (2009030-BLK1)

Prepared: 02/27/20 0 Analyzed: 02/27/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.33		"	8.00		104	50-150			

I.C.S (2009030-BS1)

Prepared: 02/27/20 0 Analyzed: 02/27/20 1

Benzene	1.94	0.0250	mg/kg	5.00		98.7	70-130			
Toluene	1.94	0.0250	"	5.00		98.8	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.6	70-130			
p,m-Xylene	9.84	0.0500	"	10.0		98.4	70-130			
o-Xylene	4.93	0.0250	"	5.00		98.6	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.5	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.33		"	8.00		103	50-150			

Matrix Spike (2009030-MS1)

Source: P002090-01

Prepared: 02/27/20 0 Analyzed: 02/27/20 1

Benzene	4.96	0.0250	mg/kg	5.00	ND	99.1	54.3-133			
Toluene	4.96	0.0250	"	5.00	ND	99.2	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.1	61.4-133			
p,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131			
o-Xylene	4.96	0.0250	"	5.00	ND	99.3	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	99.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		102	50-150			

Matrix Spike Dup (2009030-MSD1)

Source: P002090-01

Prepared: 02/27/20 0 Analyzed: 02/27/20 1

Benzene	5.11	0.0250	mg/kg	5.00	ND	102	54.3-133	3.18	20	
Toluene	5.09	0.0250	"	5.00	ND	103	61.4-130	2.55	20	
Ethylbenzene	5.07	0.0250	"	5.00	ND	101	61.4-133	2.51	20	
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	2.15	20	
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131	2.20	20	
Total Xylenes	15.2	0.0250	"	15.0	ND	101	0-200	2.17	200	
Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		103	50-150			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Court #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010005 - DRO Extraction EPA 3570										
Blank (2010005-BL.K1)				Prepared & Analyzed: 03/02/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	47.2		"	30.0		94.4	50-200			
LCS (2010005-BST)				Prepared & Analyzed: 03/02/20 1						
Diesel Range Organics (C10-C28)	436	25.0	mg/kg	500		87.2	38-132			
Surrogate: n-Nonane	17.9		"	30.0		95.9	50-200			
Matrix Spike (2010005-MS1)				Source: P002081-01	Prepared & Analyzed: 03/02/20 1					
Diesel Range Organics (C10-C28)	427	25.0	mg/kg	500	ND	85.4	38-132			
Surrogate: n-Nonane	16.6		"	30.0		93.3	50-200			
Matrix Spike Dup (2010005-MSD1)				Source: P002081-01	Prepared & Analyzed: 03/02/20 1					
Diesel Range Organics (C10-C28)	429	25.0	mg/kg	500	ND	85.8	38-132	0.445	20	
Surrogate: n-Nonane	17.4		"	30.0		94.6	50-200			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Emparada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BL K1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	2.33		"	8.00		92.1	50-150			
LCS (2009030-BL S2)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		"	8.00		93.1	50-150			
Matrix Spike (2009030-MS2)				Source: P002090-01 Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		"	8.00		94.2	50-150			
Matrix Spike Dup (2009030-MSD2)				Source: P002090-01 Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	94.9	70-130	2.15	30	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		92.4	50-150			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Emparada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
03/03/20 13:40

Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009037 - Anion Extraction EPA 300.0/9056A										
Blank (2009037-BLK1)				Prepared & Analyzed: 02/28/201						
Chloride	ND	20.0	mg/kg							
LCS (2009037-BS1)				Prepared & Analyzed: 02/28/201						
Chloride	247	20.0	mg/kg	250		98.9	90-110			
Matrix Spike (2009037-MS1)				Source: P002097-01 Prepared & Analyzed: 02/28/201						
Chloride	443	20.0	mg/kg	250	194	101	80-120			
Matrix Spike Dup (2009037-MSD1)				Source: P002097-01 Prepared & Analyzed: 02/28/201						
Chloride	441	20.0	mg/kg	250	194	98.9	80-120	1.48	30	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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EOG Resources Inc. - Carlsbad	Project Name:	Empanada 6 Federal Cont #1	Reported: 03/03/20 13:40
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Robert Asher	

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - ** Methods marked with ** are non-accredited methods.
- Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Chain of Custody

Page 1 of 1

Project Information

Client: EOG Resources, Inc.
 Project: Empanada 6 Federal Com #1
 Project Manager: Robert Asher
 Address: 104 South 4th Street
 City, State, Zip: Artesia, NM 88210
 Phone: (575) 748-4217
 Email: robert.asher@eogresources.com

Report due by: 3/3/2020
 Attention: Robert Asher
 Address: 104 South 4th Street
 City, State, Zip: Artesia, NM 88210
 Phone: (575) 748-4217
 Email: robert.asher@eogresources.com

Lab WO# P002002
 Job Number 19034-0001
 Analysis and Method

EPA Program

RCRA

CWA

SDWA

State

NM

CO

UT

AZ

X

Remarks

BGDOC

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Additional Instructions:

PO# 205632

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature) Date: 2/24/2020 Time: 2:20 PM

Relinquished by: (Signature) Date: Time:

Relinquished by: (Signature) Date: Time:

Relinquished by: (Signature) Date: Time:

Relinquished by: (Signature) Date: Time:

Relinquished by: (Signature) Date: Time:

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Relinquished by: (Signature) Date: Time:

Relinquished by: (Signature) Date: Time:

Relinquished by: (Signature) Date: Time:

Samples requiring thermal preservation must be received in the dry they are sampled or received packed in ice in an avg temp above 0 but less than 5 °C on subsequent days.

Received on ice: Y N

T1 T2 T3

AVG Temp °C 4

Container Type: B - Glass, P - poly/plastic, ag - amber glass, V - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above sampler is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Sample Matrix: S - Solid, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above sampler is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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envirotech.com

info@envirotech.com

PH (505) 832-0815 FX (505) 832-1855

5796 US Highway 64, Farmington, NM 87401

24 hour Emergency Response Phone (800) 362-1879

envirotech
 Analytical Laboratory

Empanada 6 Federal #1
Sample Data
Per NMOCD Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	BTEX	Benzene
S-1,PBL	1'	2/3/20	244	0	0.0000	0.0000
S-1,PV	1'	2/3/20	813	0	0.0000	0.0000
S-1,PO	1'	2/3/20	647	0	0.0000	0.0000

NMOCD Table I Criteria			
Depth	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO +MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 2/5/2020

Job Number: 19034-0001

Work Order: P002012

Project Name/Location: Empanada 6 Federal Com
#1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 2/11/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792010-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



FOG Resources Inc. - Carlsbad	Project Name:	Empanada 6 Federal Com #1	Reported: 02/11/20 10:52
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Robert Asher	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.PDL	P002012-01A	Soil	02/03/20	02/05/20	Glass Jar, 4 oz.
S-1.PV	P002012-02A	Soil	02/03/20	02/05/20	Glass Jar, 4 oz.
S-1.PO	P002012-03A	Soil	02/03/20	02/05/20	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Empunada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
02/11/20 10:52

S-1.PBL
P002012-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-FID		104 %		50-150	2006021	02/06/20	02/07/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2006022	02/06/20	02/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2006022	02/06/20	02/06/20	EPA 8015D	
Surrogate: n-Nonane		89.9 %		50-200	2006022	02/06/20	02/06/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %		50-150	2006021	02/06/20	02/07/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	244	20.0	mg/kg	1	2006020	02/05/20	02/06/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
02/11/20 10:52

S-1.PV
P002012-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P111		105 %		50-150	2006021	02/06/20	02/07/20	EPA 8021B	

Nonhalogenated Organics by 8015 - BRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2006022	02/06/20	02/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2006022	02/06/20	02/06/20	EPA 8015D	
Surrogate: n-Nonane		91.4 %		50-200	2006022	02/06/20	02/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-P111		89.1 %		50-150	2006021	02/06/20	02/07/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	813	20.0	mg/kg	1	2006020	02/05/20	02/06/20	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad	Project Name:	Empanada 6 Federal Com #1	Reported:
104 South 4th Street	Project Number:	19034-0001	02/11/20 10:52
Artesia NM, 88210	Project Manager:	Robert Asher	

S-1.PO
P002012-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8021B	
Surrogate: 4-Bromobromobenzene-PHD		105 %		50-150	2006021	02/06/20	02/07/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2006022	02/06/20	02/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2006022	02/06/20	02/06/20	EPA 8015D	
Surrogate: n-Nonane		90.0 %		50-200	2006022	02/06/20	02/06/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2006021	02/06/20	02/07/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %		50-150	2006021	02/06/20	02/07/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	646	20.0	mg/kg	1	2006020	02/05/20	02/06/20	EPA 300.0/9056A	

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ROG Resources Inc. - Carlsbad	Project Name:	Empianada 6 Federal Com #1	Reported: 02/11/20 10:52
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Robert Asher	

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 2006021 - Purge and Trap EPA 5030A										
Blank (2006021-BL.K1)				Prepared: 02/06/20 0 Analyzed: 02/06/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0750	"							
Surrogate: 4-Bromochlorobenzene-PID	8.42		"	8.00		105	50-150			
LCS (2006021-BS1)				Prepared: 02/06/20 0 Analyzed: 02/06/20 1						
Benzene	4.96	0.0250	mg/kg	5.00		99.3	70-130			
Toluene	5.00	0.0250	"	5.00		100	70-130			
Ethylbenzene	5.00	0.0250	"	5.00		100	70-130			
p,m-Xylene	9.98	0.0500	"	10.0		99.8	70-130			
o-Xylene	5.01	0.0250	"	5.00		100	70-130			
Total Xylenes	15.0	0.0750	"	15.0		99.9	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.54		"	8.00		107	50-150			
Matrix Spike (2006021-MS1)				Source: P002006-01 Prepared: 02/06/20 0 Analyzed: 02/06/20 2						
Benzene	5.00	0.0250	mg/kg	5.00	ND	100	54.3-133			
Toluene	5.01	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.03	0.0250	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-133			
o-Xylene	5.05	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0750	"	15.0	ND	101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.56		"	8.00		107	50-150			
Matrix Spike Dup (2006021-MSD1)				Source: P002006-01 Prepared: 02/06/20 0 Analyzed: 02/06/20 2						
Benzene	4.92	0.0250	mg/kg	5.00	ND	98.3	54.3-133	1.70	20	
Toluene	4.93	0.0250	"	5.00	ND	98.5	61.4-130	2.27	20	
Ethylbenzene	4.91	0.0250	"	5.00	ND	98.2	61.4-133	2.48	20	
p,m-Xylene	9.80	0.0500	"	10.0	ND	98.0	63.3-131	2.47	20	
o-Xylene	4.93	0.0250	"	5.00	ND	98.5	63.3-131	2.36	20	
Total Xylenes	14.7	0.0750	"	15.0	ND	98.2	0-200	2.13	200	
Surrogate: 4-Bromochlorobenzene-PID	8.60		"	8.00		108	50-150			

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FCGI Resources Inc. - Carlisbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
02/11/20 10:52

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPT	RPT Limit	Notes
Batch 2006022 - DRO Extraction EPA 3570										
Blank (2006022-BL-K1)				Prepared & Analyzed: 02/06/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	47.8		"	50.0		95.6	30-200			
LCS (2006022-BS1)				Prepared & Analyzed: 02/06/20 1						
Diesel Range Organics (C10-C28)	163	25.0	mg/kg	500		97.6	38-132			
Oil Range Organics (C28-C40)	17.0		"	50.0		92.0	30-200			
Surrogate: n-Nonane										
Matrix Spike (2006022-MS1)				Source: P002006-01 Prepared & Analyzed: 02/06/20 1						
Diesel Range Organics (C10-C28)	466	25.0	mg/kg	500	ND	93.3	38-132			
Oil Range Organics (C28-C40)	17.1		"	50.0		94.2	30-200			
Surrogate: n-Nonane										
Matrix Spike Dup (2006022-MSD1)				Source: P002006-01 Prepared & Analyzed: 02/06/20 1						
Diesel Range Organics (C10-C28)	459	25.0	mg/kg	500	ND	91.7	38-132	1.67	20	
Oil Range Organics (C28-C40)	44.8		"	50.0		89.7	30-200			
Surrogate: n-Nonane										

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EOG Resources Inc. - Carlisbad	Project Name:	Empanada 6 Federal Com #1	Reported:
104 South 4th Street	Project Number:	19034-0001	02/11/20 10:52
Artesia NM, 88210	Project Manager:	Robert Asher	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2006021 - Purge and Trap EPA 5030A										
Blank (2006021-BLK1)				Prepared: 02/06/20 0 Analyzed: 02/06/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-1-fluorobenzene-FID	3.24		"	8.00		90.3	50-150			
LCS (2006021-BL2)				Prepared: 02/06/20 0 Analyzed: 02/06/20 2						
Gasoline Range Organics (C6-C10)	45.4	20.0	mg/kg	50.0		90.9	70-130			
Surrogate: 1-Chloro-1-fluorobenzene-FID	7.35		"	8.00		94.3	50-150			
Matrix Spike (2006021-MS2)				Source: P002006-01 Prepared: 02/06/20 0 Analyzed: 02/06/20 2						
Gasoline Range Organics (C6-C10)	43.9	20.0	mg/kg	50.0	ND	87.8	70-130			
Surrogate: 1-Chloro-1-fluorobenzene-FID	7.47		"	8.00		92.8	50-150			
Matrix Spike Dup (2006021-MSD2)				Source: P002006-01 Prepared: 02/06/20 0 Analyzed: 02/06/20 2						
Gasoline Range Organics (C6-C10)	42.9	20.0	mg/kg	50.0	ND	85.7	70-130	2.16	20	
Surrogate: 1-Chloro-1-fluorobenzene-FID	7.42		"	8.00		92.8	50-150			

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EOG Resources Inc. - Carlisbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
02/11/20 10:52

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2006020 - Anion Extraction EPA 300.0/9056A										
Blank (2006020-B1.K1)				Prepared & Analyzed: 02/05/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2006020-B1)				Prepared & Analyzed: 02/05/20 1						
Chloride	250	20.0	mg/kg	250		100	90-110			
Matrix Spike (2006020-MS1)				Prepared & Analyzed: 02/05/20 1						
Chloride	1110	100	mg/kg	250	785	133	80-120			M2
Matrix Spike Dup (2006020-MSD1)				Prepared: 02/05/20 1 Analyzed: 02/05/20 2						
Chloride	913	100	mg/kg	250	785	59.0	80-120	17.7	20	M2

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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EOG Resources Inc. - Carlsbad	Project Name:	Empanada 6 Federal Com #1	Reported: 02/11/20 10:52
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Robert Asher	

Notes and Definitions

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - ** Methods marked with ** are non-accredited methods.
- Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Chain of Custody

Client: EOG Resources, Inc.	Report Attention									
Project: Empanada 6 Federal Com #1	Report due by: 2/11/2020									
Project Manager: Robert Asher	Attention: Robert Asher									
Address: 104 South 4th Street	Address: 104 South 4th Street									
City, State, Zip Artesia, NM 88210	City, State, Zip Artesia, NM 88210									
Phone: (575) 748-4217	Phone: (575) 748-4217									
Email: robert.asher@eogresources.com	Email: robert.asher@eogresources.com									

Lab WO#	Job Number	TAT		EPA Program	
P002012	19 034-0001	1D	3D	RCRA	SDWA
Analysis and Method		State			
O by 8015	6021				
O by 8015	1260				
	010				
	100.0			NM	CO UT AZ
				X	

[illegible]

Additional Instructions:

PO# 205632

PUH 003083Z
I, (fill sample), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Damaged by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: (Y) (N) T1 _____ T2 _____ T3 _____ AVG Temp °C _____
	2/4/2019	9:00 AM	<i>Raine Lopez</i>	2/5/20	16:15	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Samoa Mariner: S - Soil, sd - Solid, sp - Splice, A - Aqueous, O - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on this report.

envirotech
Analytical Laboratory

5795 US Highway 64, Farmington, NM 87401
Ph (505) 692-0615 FX (505) 632-1985
24 hour Emergency Response Phone (800) 362-1879

envirotech@envirotech.com
www.envirotech.com

Empanada 6 Federal #1
Sample Data
Per NMOCD Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	BTEX	Benzene
S-1.PR	1'	11/19/19	34.9	0	0.0000	0.0000
S-1.PB	1'	11/19/19	30.9	0	0.0000	0.0000
S-1.PY	1'	11/19/19	97.5	25.7	0.0000	0.0000
S-1.PG	1'	11/19/19	109	0	0.0000	0.0000
S-1.PW	1'	11/19/19	113	87	0.0000	0.0000
S-1.PBL	1'	11/19/19	441	104	0.2190	0.0000
S-1.PV	1'	11/19/19	1250	0	0.0254	0.0000
S-1.PO	1'	11/19/19	627	141.9	0.0000	0.0000
S-1.PBB	1'	11/19/19	0	0	0.0000	0.0000
S-1.PBY	1'	11/19/19	34.9	0	0.0000	0.0000
S-1.BB	1'	11/19/19	0	0	0.0000	0.0000
S-1.BY	1'	11/19/19	0	318	0.2100	0.0000
S-1.BG	1'	11/19/19	0	39.9	0.0000	0.0000
S-1.BBL	1'	11/19/19	0	179	0.0000	0.0000
S-1.BW	1'	11/19/19	0	0	0.0000	0.0000
S-1.BR	1'	11/19/19	0	138	0.2244	0.0000

NMOCD Table I Criteria			
Depth	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO +MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 11/22/2019

Job Number: 19034-0001

Work Order: P911112

Project Name/Location: Empanada 6 Federal Com
#1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 11/27/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empunada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.PR	P911112-01A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PB	P911112-02A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PY	P911112-03A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PG	P911112-04A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PW	P911112-05A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PBL	P911112-06A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PV	P911112-07A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PO	P911112-08A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PBY	P911112-09A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.PBB	P911112-10A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

S-1.PR
P911112-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	

Surrogate: 1-Bromochlorobenzene-PID 100 % 50-150 1947049 11/22/19 11/23/19 EPA 8021B

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	

Surrogate: n-Nonane 88.4 % 50-200 1947050 11/22/19 11/26/19 EPA 8015D

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
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Surrogate: 1-Chloro-4-fluorobenzene-PID 88.1 % 50-150 1947049 11/22/19 11/23/19 EPA 8015D

Anions by 300.0/9056A

Chloride	34.9	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

S-1.PB
P911112-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		95.2 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		87.2 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	30.9	20.0	mg/kg	1	1947043	11/22/19	11/22/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad 104 South 4th Street Artesia, NM, 88210	Project Name: Emparada 6 Federal Com #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 11/27/19 09:47
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S-1.PY
P911112-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatiles Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	25.7	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		97.3 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		86.6 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	97.5	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Ashier

Reported:
11/27/19 09:47

S-1.PG
P911112-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PTD		99.6 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		92.4 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	109	20.0	mg/kg	1	1947045	11/22/19	11/23/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empsnada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

S-1.PW
P911112-05 (Solid)

Reporting:

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	35.3	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	51.7	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		84.7 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-1-fluorobenzene-PID		86.1 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	113	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlisbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Conn #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

**S-1.PBI
P911112-06 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150		1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - BRO/ORO									
Diesel Range Organics (C10-C28)	40.5	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	63.5	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		78.1 %	50-200		1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	50-150		1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	441	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	

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FOG Resources Inc. - Carlshad
104 South 4th Street
Arltesia NM, 88210

Project Name: Emparada 6 Federal Court #1
Project Number: 19034-0001
Project Manager: Robert Ashier

Reported:
11/27/19 09:47

S-LPV
P911112-07 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		83.8 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.1 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1250	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

S-1.PO
P911112-08 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
<i>S surrogate: 4-Bromochlorobenzene-FID</i>		100 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	58.1	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	83.8	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
<i>S surrogate: n-Nonane</i>		86.0 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
<i>S surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	627	20.0	mg/kg	1	1947043	11/22/19	11/22/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlisbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal Cont #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 11/27/19 09:47
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**S-1.PBY
P911112-09 (Solid)**

Reporting:									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 1-Bromochlorobenzene-1,1D		99.9 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		82.9 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-1,1D		88.2 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	34.9	20.0	mg/kg	1	1947043	11/22/19	11/22/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

S-1.PBB
P911112-10 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatiles Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P11		101 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		78.2 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-P11		87.4 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1947045	11/22/19	11/22/19	EPA 300.0/9056A	
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EOG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RHC	%RHC Limits	RPD	RPD Limit	Notes
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Batch 1947049 - Purge and Trap EPA 5030A

Blank (1947049-BL.K1)

Prepared: 11/22/19 | Analyzed: 11/22/19 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.11		"	8.00		101	50-150			

LCS (1947049-BS1)

Prepared: 11/22/19 | Analyzed: 11/22/19 2

Benzene	5.04	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.11	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.05	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.0	0.0500	"	10.0		100	70-130			
o-Xylene	5.02	0.0250	"	5.00		100	70-130			
Total Xylenes	15.1	0.0250	"	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		102	50-150			

Matrix Spike (1947049-MS1)

Source: P911105-01

Prepared: 11/22/19 | Analyzed: 11/22/19 2

Benzene	5.18	0.0250	mg/kg	5.00	ND	106	54.3-133			
Toluene	5.34	0.0250	"	5.00	ND	107	61.4-130			
Ethylbenzene	5.27	0.0250	"	5.00	ND	105	61.4-133			
p,m-Xylene	10.5	0.0500	"	10.0	ND	105	63.3-131			
o-Xylene	5.26	0.0250	"	5.00	ND	105	63.3-131			
Total Xylenes	15.7	0.0250	"	15.0	ND	105	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			

Matrix Spike Dup (1947049-MSD1)

Source: P911105-01

Prepared: 11/22/19 | Analyzed: 11/22/19 2

Benzene	5.15	0.0250	mg/kg	5.00	ND	103	54.3-133	2.44	20	
Toluene	5.25	0.0250	"	5.00	ND	105	61.4-130	1.69	20	
Ethylbenzene	5.21	0.0250	"	5.00	ND	104	61.4-133	1.30	20	
p,m-Xylene	10.4	0.0500	"	10.0	ND	104	63.3-131	1.34	20	
o-Xylene	5.20	0.0250	"	5.00	ND	104	63.3-131	1.17	20	
Total Xylenes	15.5	0.0250	"	15.0	ND	104	63.3-131	1.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8.23		"	8.00		103	50-150			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empalada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1947050 - DRO Extraction EPA 3570										
Blank (1947050-BLK1)				Prepared: 11/22/19 1 Analyzed: 11/25/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C29-C40)	ND	50.0	"							
Surrogate: n-Nonane	45.3		"	50.0		90.6	50-100			
LCS (1947050-BS1)				Prepared: 11/22/19 1 Analyzed: 11/25/19 1						
Diesel Range Organics (C10-C28)	182	25.0	mg/kg	500		96.3	38-132			
Surrogate: n-Nonane	50.7		"	50.0		100	50-100			
Matrix Spike (1947050-MS1)				Source: P911105-01 Prepared: 11/22/19 1 Analyzed: 11/25/19 1						
Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500	ND	94.0	38-132			
Surrogate: n-Nonane	85.4		"	50.0		96.8	50-100			
Matrix Spike Dup (1947050-MSD1)				Source: P911105-01 Prepared: 11/22/19 1 Analyzed: 11/25/19 1						
Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500	ND	95.2	38-132	2.33	20	
Surrogate: n-Nonane	45.4		"	50.0		96.7	50-100			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:47

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1947049 - Purge and Trap EPA 5030A										
Blank (1947049-BLK1)				Prepared: 11/22/19 Analyzed: 11/22/19 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.92		"	8.60		86.5	50-150			
LCS (1947049-BS2)				Prepared: 11/22/19 Analyzed: 11/22/19 2						
Gasoline Range Organics (C6-C10)	49.3	20.0	mg/kg	50.0		98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		"	6.00		88.0	50-150			
Matrix Spike (1947049-MS2)				Source: P911105-01 Prepared: 11/22/19 Analyzed: 11/22/19 2						
Gasoline Range Organics (C6-C10)	50.4	20.0	mg/kg	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		"	8.00		88.2	50-150			
Matrix Spike Dup (1947049-MSD2)				Source: P911105-01 Prepared: 11/22/19 Analyzed: 11/23/19 0						
Gasoline Range Organics (C6-C10)	50.5	20.0	mg/kg	50.0	ND	100	70-130	0.217	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		"	8.00		87.2	50-150			

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FCGI Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal Com #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 11/27/19 09:47
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Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 1947045 - Anion Extraction EPA 300.0/9056A										
Blank (1947045-BLK1)				Prepared & Analyzed: 11/22/19 0						
Chloride	ND	20.0	mg/kg							
LCS (1947045-BS1)				Prepared: 11/22/19 0 Analyzed: 11/22/19 1						
Chloride	241	20.0	mg/kg	250		96.4	90-110			
Matrix Spike (1947045-MS1)				Source: P911103-01 Prepared: 11/22/19 0 Analyzed: 11/22/19 1						
Chloride	271	20.0	mg/kg	250	ND	100	80-130			
Matrix Spike Dup (1947045-MSD1)				Source: P911103-01 Prepared: 11/22/19 0 Analyzed: 11/22/19 1						
Chloride	273	20.0	mg/kg	250	ND	110	80-120	1.38	20	

QC Summary Report

Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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EOG Resources Inc. - Carlsbad	Project Name:	Empanada 6 Federal Com #1	Reported:
104 South 4th Street	Project Number:	19034-0001	11/27/19 09:47
Artesia NM, 88210	Project Manager:	Robert Asher	

Notes and Definitions

ND) Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Page 18 of 18

Client: EOG Resources, Inc.				Report due by: 11/27/2019				Lab Use Only				EPA Program			
Project: Empanada 6 Federal Com #1				Attention: Robert Asher				Lab WO# 19034-0001				Job Number 19034-0001			
Project Manager: Robert Asher				Address: 104 South 4th Street				City, State, Zip: Artesia, NM 88210				RCRA CWA SDWA			
Phone: (575) 748-4217				Email: robert.asher@eogresources.com				Analysis and Method				State			
Time Sampled				Date Sampled				Matrix				Sample ID			
12:20 PM				11/19/19				S				S-1.PR			
12:24 PM				11/19/19				S				S-1.PB			
12:28 PM				11/19/19				S				S-1.PY			
12:32 PM				11/19/19				S				S-1.PG			
12:37 PM				11/19/19				S				S-1.PW			
12:41 PM				11/19/19				S				S-1.PBL			
12:46 PM				11/19/19				S				S-1.PV			
12:54 PM				11/19/19				S				S-1.PO			
12:58 PM				11/19/19				S				S-1.PBY			
1:01 PM				11/19/19				S				S-1.PBB			

Additional Instructions:

PO# 205632

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature) Date 11/20/2019 Time 9:00 AM

Relinquished by: (Signature) Date Time

Received by: (Signature) Date 11/22/19 Time 9:45

Received by: (Signature) Date Time

Lab Use Only

Received on ice: Y/N

T1 T2 T3

AVG Temp °C 4

Container Type: B - Glass, P - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Notes: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5796 US Highway 54, Farmington, NM 87401
24 Hour Emergency Response Phone (800) 362-1879

PH (505) 532-0615 FX (505) 832-1865

envirotech.com
lab@envirotech.com



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 11/22/2019

Job Number: 19034-0001

Work Order: P911105

Project Name/Location: Empanada 6 Federal Com
#1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 11/27/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704567-19-2 for the data reported.



EOG Resources Inc. - Carlisbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:40

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.BJ	P911105-01A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BY	P911105-02A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BG	P911105-03A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BRI	P911105-04A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BW	P911105-05A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.
S-1.BR	P911105-06A	Soil	11/19/19	11/22/19	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Hmpanada 6 Federal Corn #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:40

S-1.BB
P911105-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/25/19	EPA 8015D	
Surrogate: n-Nonane		92.1 %		50-200	1947050	11/22/19	11/25/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1918006	11/25/19	11/25/19	EPA 300.0/9056A	
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EOG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Empunada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:40

S-1.BY
P911105-02 (Solid)

Reporting:

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	0.153	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	0.0566	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	0.210	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	318	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		111 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	ug/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	ug/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:40

S-1.BC
P911105-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	NT	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	39.9	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		95.2 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:40

S-1.BBL
P911105-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	0.0801	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	0.0618	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	0.142	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 1-Bromochlorobenzene-FID	107.9%	50-150			1947049	11/22/19	11/23/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	179	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane	98.6%	50-200			1947050	11/22/19	11/26/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.6%	50-150			1947049	11/22/19	11/23/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal Cont #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 11/27/19 09:40
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**S-1.BW
P911105-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		89.0 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		86.9 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	
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ECG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Emparada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:40

S-1.BR
P911105-06 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
p,m-Xylene	0.116	0.0500	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
o-Xylene	0.0830	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Total Xylenes	0.199	0.0250	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1947049	11/22/19	11/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	138	25.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947050	11/22/19	11/26/19	EPA 8015D	
Surrogate: n-Nonane		90.3 %		50-200	1947050	11/22/19	11/26/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947049	11/22/19	11/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-PID		88.4 %		50-150	1947049	11/22/19	11/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1948006	11/25/19	11/25/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Empanada 6 Federal Cont #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:40

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%RXC Limits	RPD	RPD Limit	Notes
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Batch 1947049 - Purge and Trap EPA 5030A

Blank (1947049-BL.K1)

Prepared: 11/22/19 1 Analyzed: 11/22/19 2

Heptane	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.11		"	8.00		101	70-150			

LCS (1947049-RS1)

Prepared: 11/22/19 1 Analyzed: 11/22/19 2

Heptane	5.04	0.0250	mg/kg	5.00		101	70-150			
Toluene	5.11	0.0250	"	5.00		102	70-150			
Ethylbenzene	5.05	0.0250	"	5.00		101	70-150			
p,m-Xylene	10.0	0.0500	"	10.0		100	70-150			
o-Xylene	5.02	0.0250	"	5.00		100	70-150			
Total Xylenes	15.1	0.0250	"	15.0		100	70-150			
Surrogate: 4-Bromochlorobenzene-PID	8.22		"	8.00		103	70-150			

Matrix Spike (1947049-MS1)

Source: P911105-01

Prepared: 11/22/19 1 Analyzed: 11/22/19 2

Benzene	5.28	0.0250	mg/kg	5.00	ND	106	54.3-133			
Toluene	5.34	0.0250	"	5.00	ND	107	61.4-130			
Ethylbenzene	5.27	0.0250	"	5.00	ND	105	61.4-133			
p,m-Xylene	10.5	0.0500	"	10.0	ND	105	63.3-131			
o-Xylene	5.26	0.0250	"	5.00	ND	105	61.3-131			
Total Xylenes	15.7	0.0250	"	15.0	ND	105	61.3-131			
Surrogate: 1-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			

Matrix Spike Dup (1947049-MSD1)

Source: P911105-01

Prepared: 11/22/19 1 Analyzed: 11/22/19 2

Benzene	5.15	0.0250	mg/kg	5.00	ND	103	54.3-133	2.44	30	
Toluene	5.25	0.0250	"	5.00	ND	105	61.4-130	1.69	30	
Ethylbenzene	5.21	0.0250	"	5.00	ND	104	61.4-133	1.30	30	
p,m-Xylene	10.4	0.0500	"	10.0	ND	104	63.3-131	1.34	30	
o-Xylene	5.20	0.0250	"	5.00	ND	104	63.3-131	1.17	30	
Total Xylenes	15.5	0.0250	"	15.0	ND	104	63.3-131	1.28	30	
Surrogate: 1-Bromochlorobenzene-PID	8.22		"	8.00		103	50-150			

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5796 Highway 64, Farmington, NM 87401

PH (505) 632-0615 FX (505) 632-1865

24 Hour Emergency Response Phone (800) 362-1879

envirotechinc.com

Labdata@envirotech-inc.com

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Received by OCD: 6/12/2020 11:09:01 AM



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Emparada 6 Federal Com #1
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
11/27/19 09:40

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 1947050 - DRO Extraction EPA 3570										
Blank (1947050-BL.K1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	48.3		"	50.0		96.6	50-200			
LCS (1947050-BL1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500		96.4	38-132			
Surrogate: n-Nonane	50.1		"	50.0		100	50-200			
Matrix Spike (1947050-MS1)				Source: P911105-01		Prepared: 11/22/19 Analyzed: 11/25/19				
Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500	ND	94.0	38-132			
Surrogate: n-Nonane	50.1		"	50.0		96.8	50-200			
Matrix Spike Dup (1947050-MSD1)				Source: P911105-01		Prepared: 11/22/19 Analyzed: 11/25/19				
Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500	ND	96.2	38-132	2.33	20	
Surrogate: n-Nonane	48.4		"	50.0		96.7	50-200			

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FOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal Cont #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 11/27/19 09:40
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Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analysis	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1947049 - Purge and Trap EPA 5030A										
Blank (1947049-BLK1)				Prepared: 11/22/19 Analyzed: 11/22/19 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		"	8.00		86.5	50-150			
ICS (1947049-BS2)				Prepared: 11/22/19 Analyzed: 11/22/19 2						
Gasoline Range Organics (C6-C10)	49.3	20.0	mg/kg	50.0		98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		"	8.00		88.0	50-150			
Matrix Spike (1947049-MS2)				Source: P911105-01		Prepared: 11/22/19 Analyzed: 11/22/19 2				
Gasoline Range Organics (C6-C10)	50.4	20.0	mg/kg	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		"	8.00		88.2	50-150			
Matrix Spike Dup (1947049-MSD2)				Source: P911105-01		Prepared: 11/22/19 Analyzed: 11/23/19 0				
Gasoline Range Organics (C6-C10)	50.5	20.0	mg/kg	50.0	ND	101	70-130	6.217	30	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		"	8.00		87.2	50-150			

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FCI Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Empanada 6 Federal Cont #1 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 11/27/19 09:40
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1948006 - Anion Extraction EPA 300.0/9056A										
Blank (1948006-BLK1)				Prepared & Analyzed: 11/25/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1948006-BS1)				Prepared & Analyzed: 11/25/19 1						
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1948006-MS1)				Source: P911105-01 Prepared: 11/25/19 1 Analyzed: 11/26/19 0						
Chloride	258	20.0	mg/kg	250	ND	103	80-120			
Matrix Spike Dup (1948006-MSD1)				Source: P911105-01 Prepared: 11/25/19 1 Analyzed: 11/26/19 0						
Chloride	259	20.0	mg/kg	250	ND	103	80-120	0.194	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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EOG Resources Inc. - Carlshad	Project Name:	Empanada 6 Federal Com #1	Reported: 11/27/19 09:40
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Robert Asher	

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: EOG Resources, Inc.		Report Attention		Lab Use Only		TAT		EPA Program	
Project: Empanada 6 Federal Com #1		Report due by: 11/27/2019		Job Number: 19034-0001		1D 3D		CWA	SDWA
Project Manager: Robert Asher		Attention: Robert Asher		Analysis and Method					
Address: 104 South 4th Street		Address: 104 South 4th Street							
City, State, Zip Artesia, NM 88210		City, State, Zip Artesia, NM 88210							
Phone: (575) 748-4217		Phone: (575) 748-4217							
Email: robert.asher@eogresources.com		Email: robert.asher@eogresources.com							

Time Sampled	Date Sampled	Matrix	No. Containers	Sample ID	Lab Number	OKO/ORO by 8015	GRD/DRD by 8015	DTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	CO	UT	AZ	Remarks
1:10 PM	11/19/19	S	1	S-1.BB	1	X	X	X			X					
1:14 PM	11/19/19	S	1	S-1.BY	2	X	X	X			X					BGDOC
1:19 PM	11/19/19	S	1	S-1.BG	3	X	X	X			X					BGDOC
1:23 PM	11/19/19	S	1	S-1.BBL	4	X	X	X			X					BGDOC
1:28 PM	11/19/19	S	1	S-1.BW	5	X	X	X			X					BGDOC
1:33 PM	11/19/19	S	1	S-1.BR	6	X	X	X			X					BGDOC

Additional Instructions:

PO# 205632

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling this sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)

Date

11/20/2019

Time

9:05 AM

Received by: (Signature)

Date

11/22/19

Time

9:45

Received on ice: (Y) N

T1

T2

T3

Relinquished by: (Signature)

Date

11/20/2019

Time

9:05 AM

Received by: (Signature)

Date

11/22/19

Time

9:45

Received on ice: (Y) N

T1

T2

T3

Sample Matrix: S - Soil, SB - Solid, Sg - Sludge, A - Aqueous, O - Other

Date

11/20/2019

Time

9:05 AM

Received by: (Signature)

Date

11/22/19

Time

9:45

Received on ice: (Y) N

T1

T2

T3

Container Type: S - glass, p - poly/plastic, ag - amber glass, v - VOA

Date

11/20/2019

Time

9:05 AM

Received by: (Signature)

Date

11/22/19

Time

9:45

Received on ice: (Y) N

T1

T2

T3

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Date

11/20/2019

Time

9:05 AM

Received by: (Signature)

Date

11/22/19

Time

9:45

Received on ice: (Y) N

T1

T2

T3



envirotech
Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401

24 hour Emergency Response Phone (800) 562-1879

Ph (505) 632-0615 FX (505) 632-1865

mailto:info@envirotech.com
lab.admin@envirotech.com

Figure 4

NMOCD Final Sampling Notifications

Bob Asher

From: Bob Asher
Sent: Monday, May 11, 2020 9:42 AM
To: Bradford.Billings@state.nm.us; emnrd-ocd-district1spills@state.nm.us;
jmccormick@blm.gov
Cc: Katie Jamison (Katie_Jamison@eogresources.com)
Subject: RE: Final Confirmation Sampling Notification (Empanada 6 Federal #1)

EOG Resources, Inc. respectfully submits notification of Final Confirmation Sampling at the below listed location. Sampling will occur at 10:00 a.m. on Wednesday, May 13, 2020.

Empanada 6 Federal Com #1
30-025-36919
Section 6, T13S-R35E
Lea County, New Mexico

Thank you,

Robert Asher

Environmental Supervisor, S & E Department, EOG Resources, Inc. Artesia Division, 104 South Fourth Street, Artesia, NM 88210, 575-748-4217 (Office),
575-365-0021 (Cell)

EOG Safety Begins with YOUR Safety



Bob Asher

From: Bob Asher
Sent: Monday, April 6, 2020 9:20 AM
To: Bradford.Billings@state.nm.us; emnrd-ocd-district1spills@state.nm.us; 'jmccormick@blm.gov'
Cc: Katie Jamison (Katie_Jamison@eogresources.com)
Subject: RE: Final Confirmation Sampling Notification (Empanada 6 Federal #1)

EOG Resources, Inc. respectfully submits notification of Final Confirmation Sampling at the below listed location. Sampling will occur at 10:00 a.m. on Wednesday, April 8, 2020.

Empanada 6 Federal Com #1
30-025-36919
Section 6, T13S-R35E
Lea County, New Mexico

Thank you,

Robert Asher
Environmental Supervisor, S & E Department, EOG Resources, Inc. Artesia Division, 104 South Fourth Street, Artesia, NM 88210, 575-748-4217 (Office), 575-365-4021 (Cell)

EOG Safety Begins with YOUR Safety



From: Bob Asher
Sent: Tuesday, March 17, 2020 9:05 AM
To: Bradford.Billings@state.nm.us; emnrd-ocd-district1spills@state.nm.us; 'jmccormick@blm.gov' <jmccormick@blm.gov>
Cc: Katie Jamison (Katie_Jamison@eogresources.com) <Katie_Jamison@eogresources.com>
Subject: Final Confirmation Sampling Notification (Empanada 6 Federal #1)

EOG Resources, Inc. respectfully submits notification of Final Confirmation Sampling at the below listed location. Sampling will occur at 10:00 a.m. on Thursday, March 19, 2020.

Empanada 6 Federal Com #1
30-025-36919
Section 6, T13S-R35E
Lea County, New Mexico

Thank you,

Robert Asher
Environmental Supervisor, S & E Department, EOG Resources, Inc. Artesia Division, 104 South Fourth Street, Artesia, NM 88210, 575-748-4217 (Office), 575-365-4021 (Cell)

EOG Safety Begins with YOUR Safety



Bob Asher

From: Bob Asher <Bob_Asher@eogresources.com>
Sent: Thursday, March 19, 2020 9:55 AM
To: Bradford.Billings@state.nm.us; emnrd-ocd-district1spills@state.nm.us; jmccormick@blm.gov
Cc: Katie Jamison
Subject: RE: Final Confirmation Sampling Notification (Empanada 6 Federal #1)

Due to rains/precipitation in the Tatum area these past few days, the sampling event for today will need to be rescheduled to a later date.

Thank you,

Robert Asher

Environmental Supervisor, S & E Department, EOG Resources, Inc. Artesia Division, 104 South Fourth Street, Artesia, NM 88210, 575-748-4217 (Office), 575-365-4021 (Cell)

EOG Safety Begins with YOUR Safety



From: Bob Asher
Sent: Tuesday, March 17, 2020 9:05 AM
To: Bradford.Billings@state.nm.us; emnrd-ocd-district1spills@state.nm.us; 'jmccormick@blm.gov' <jmccormick@blm.gov>
Cc: Katie Jamison (Katie_Jamison@eogresources.com) <Katie_Jamison@eogresources.com>
Subject: Final Confirmation Sampling Notification (Empanada 6 Federal #1)

EOG Resources, Inc. respectfully submits notification of Final Confirmation Sampling at the below listed location. Sampling will occur at 10:00 a.m. on Thursday, March 19, 2020.

Empanada 6 Federal Com #1
 30-025-36919
 Section 6, T13S-R35E
 Lea County, New Mexico

Thank you,

Robert Asher

Environmental Supervisor, S & E Department, EOG Resources, Inc. Artesia Division, 104 South Fourth Street, Artesia, NM 88210, 575-748-4217 (Office), 575-365-4021 (Cell)

EOG Safety Begins with YOUR Safety



Bob Asher

From: Bob Asher
Sent: Tuesday, March 17, 2020 9:05 AM
To: Bradford.Billings@state.nm.us; emnrd-ocd-district1spills@state.nm.us;
jmccormick@blm.gov
Cc: Katie Jamison (Katie_Jamison@eogresources.com)
Subject: Final Confirmation Sampling Notification (Empanada 6 Federal #1)

EOG Resources, Inc. respectfully submits notification of Final Confirmation Sampling at the below listed location. Sampling will occur at 10:00 a.m. on Thursday, March 19, 2020.

Empanada 6 Federal Com #1
30-025-36919
Section 6, T13S-R35E
Lea County, New Mexico

Thank you,

Robert Asher

Environmental Supervisor, S & E Department, EOG Resources, Inc. Artesia Division, 104 South Fourth Street, Artesia, NM 88210, 575-748-4217 (Office), 575-365-4021 (Cell)

EOG Safety Begins with YOUR Safety



Figure 5

Initial C-141 Release Notification/Closure Report

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 EOG Resources, Inc.	OGRID 7377
Contact Name Robert Asher	Contact Telephone 575-748-4217
Contact email bob_asher@egresources.com	Incident II (assigned by OCD)
Contact mailing address 104 S. 4 th	

Location of Release Source

Latitude 33.22530 Longitude -103.44439
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Empanada 6 Federal Com #1	Site Type: Battery
Date Release: Discovered 10/31/19	API# 30-025-36919

Unit Letter	Section	Township	Range	County
B	6	13S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: John R Ingle)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 103	Volume Recovered (bbls) 25
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Drain valve on back of water tank froze and failed. Lease operator isolated tank and had 30 barrels of water pulled from tank and vacuumed up remaining spill from ground.

Form C-141

Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? 19.15.29.7 A. DEFINITIONS: "Major release" means: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes. Chase Settle, EOG Resources, Inc. Jim Griswold, ENMRD, emnrd-oed-district1spills.nm.us, blm_nm_cfo@blm.gov Thu, 10/31/2019 10:14 AM (email)	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Robert Asher</u> Signature:  email: <u>bob_asher@eogresources.com</u>	Title: <u>Environmental Supervisor</u> Date: <u>11/11/2019</u> Telephone: <u>575-748-4217</u>
OCD Only Received by: _____ Date: _____	

State of New Mexico
Oil Conservation Division

Incident ID	NRM2000248431
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 OCD 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.

Printed Name: Robert Asher

Title: Environmental Supervisor

Signature: 

Date: 5/26/2020

email: bob_asher@eogresources.com

Telephone: 575-748-4217

OCD Only

Received by: Cristina Eads

Date: 06/12/2020

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: 09/04/2020

Printed Name: Cristina Eads

Title: Environmental Specialist