

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

EOG Y Resources, Inc.

Closure Report

**Leontodon ASH Federal Com #1** 

30-005-63324

Section 10, T9S-R26E

**Chaves County, New Mexico** 

**December 16, 2019** 

2RP-5066



December 16, 2019

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December 16, 2019

#### I. Description of all remedial actions

On August 22, 2017, EOG Y Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 7 B/PW with 2 B/PW recovered. The affected area is approximately 40' X 30' within the primary berm of the facility, in the south end of the battery. The release was caused by the failure of a seal on a transfer pump. A vacuum truck was dispatched to recover the remaining produced water.

Vertical/horizontal delineation samples were collected at 3 sample points (S1) within the release area. Samples will be collected at 1', 2', and 3' below grade surface (bgs). Due to the nature of the release (produced water), the first set of vertical delineation hole soil samples (1' and 2' bgs) will be analyzed for Benzene, BTEX, TPH extended, and chlorides. If these samples are below Table I Limits for Benzene, BTEX, and TPH extended, no further sampling for these constituents will occur, only chloride will be analyzed with any further soil sampling if the initial sample analysis warrant further delineation. All samples will be sent to a NMOCD approved laboratory for analysis. Based on those results, additional vertical samples may be collected at the same sample points until the Table I Limits for a site ranking 10 have been met.

On June 27, 2019, Talon LPE core sampled and drilled a monitor bore hole for ground water determination.

EOG Resources excavated contaminated soils (approximately 178 cubic yards) to the top of the four (4) foot level and disposed. This depth of excavation corresponds with the samples collected from the core rig on June 27, 2019.

Once soils were excavated, EOG collected representative five-point composite samples from the bottom and side walls. If warranted, individual grab samples will be collected. If composite/grab concentrates are greater than the listed parameters listed in Table I, then EOG will continue the excavation of contaminated soils until concentrates are below listed parameters in Table I.

EOG Resources notified the NMOCD, two business days prior to sampling (Figure 4).

All composite and grab sample concentrations are less than or equal to the parameters listed in Table I or any conditions of approval of the Final Sampling, EOG then proceeded to backfill the excavated area (Figure 2).

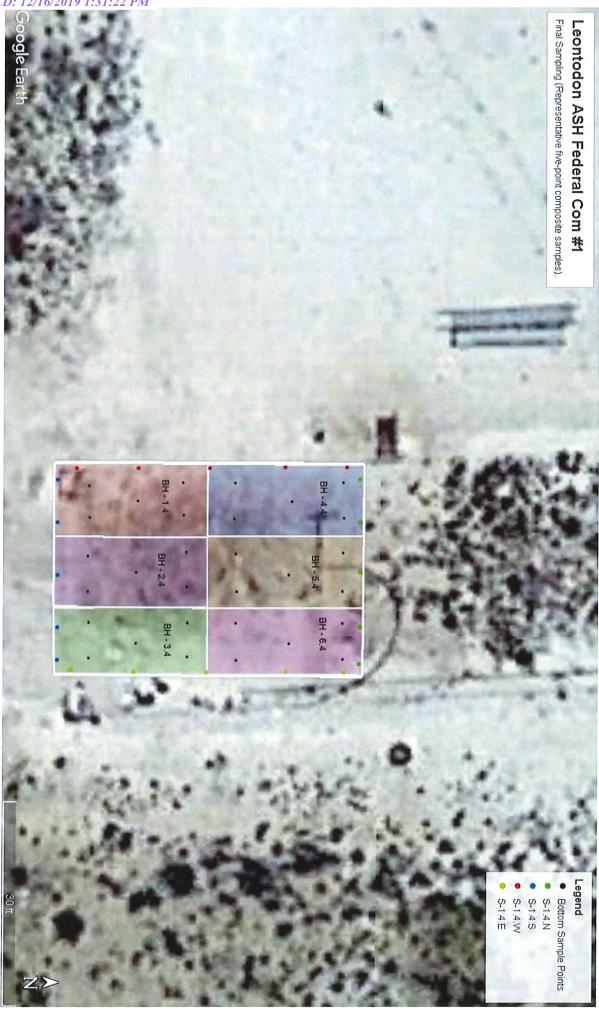


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# Figure 1

**Scaled Site Map and Sampling Diagram** 





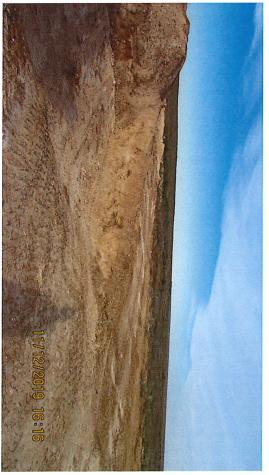


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# Figure 2

Photographs of the remediated site prior to backfill















December 16, 2019

# Figure 3

**Laboratory analysis of Final Sampling** 



# **Analytical Report**

# **Report Summary**

Client: EOG Resources Inc. - Carlsbad

Samples Received: 10/30/2019 Job Number: 19034-0001 Work Order: P910190

Project Name/Location: Leontodon ASH Federal Com #1

Report Reviewed By:	Walter Hinder	Date:	10/31/19	
	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.

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Project Name:

Leontodon ASH Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number:

19034-0001

Reported: 10/31/19 14:57

Project Manager:

Robert Asher

# **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH-1.4	P910190-01A	Soil	10/28/19	10/30/19	Glass Jar, 4 oz.
BH-2.4	P910190-02A	Soil	10/28/19	10/30/19	Glass Jar, 4 oz.
BH-3.4	P910190-03A	Soil	10/28/19	10/30/19	Glass Jar, 4 oz.
BH-4.4	P910190-04A	Soil	10/28/19	10/30/19	Glass Jar, 4 oz.
BH-5.4	P910190-05A	Soil	10/28/19	10/30/19	Glass Jar, 4 oz.
BH-6.4	P910190-06A	Soil	10/28/19	10/30/19	Glass Jar, 4 oz.

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Project Name:

Leontodon ASH Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported:

10/31/19 14:57

BH-1.4 P910190-01 (Solid)

		Reporting							·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-1	150	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		95.5 %	50-2	200	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	50-1	150	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	269	20.0	mg/kg	1	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad Project Name: Leontodon ASH Federal Com #1

104 South 4th Street Project Number: 19034-0001

 104 South 4th Street
 Project Number:
 19034-0001
 Reported:

 Artesia NM, 88210
 Project Manager:
 Robert Asher
 10/31/19 14:57

## BH-2.4 P910190-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		79.7 %	50-	200	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: I-Chloro-4-fluorobenzene-FID		96.0 %	50-	150	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1040	20.0	mg/kg	1	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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 Reported:

 Artesia NM, 88210
 Project Manager:
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## BH-3.4 P910190-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-1	150	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		95.0 %	50-2	200	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	50-1	150	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	225	20.0	mg/kg	1	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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104 South 4th Street

Project Number:

19034-0001 Robert Asher Reported:

Artesia NM, 88210

Project Manager:

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## BH-4.4 P910190-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-1	150	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		96.1 %	50-2	200	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	50-1	150	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	119	20.0	mg/kg	1	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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104 South 4th Street

Project Number:

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Reported:

Artesia NM, 88210

Project Manager:

Robert Asher

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# BH-5.4 P910190-05 (Solid)

		Reporting				•		·	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-	150	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO	ĺ								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane	¥	95.3 %	50	200	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	50	150	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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104 South 4th Street

Project Number:

19034-0001

Reported:

Artesia NM, 88210

Project Manager: Robert Asher

10/31/19 14:57

## BH-6.4 P910190-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-1	50	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		92.1 %	50-2	00	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID	·	96.6 %	50-1	50	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	43.8	20.0	mg/kg	1	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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104 South 4th Street Project Number: 19034-0001 Reported:
Artesia NM, 88210 Project Manager: Robert Asher 10/31/19 14:57

### **Volatile Organics by EPA 8021 - Quality Control**

### **Envirotech Analytical Laboratory**

Statch 194016 - Purge and Trap EPA 5030A   Statch 194016 - BuKt)			Reporting		Spike	Source		%REC		RPD	
Prepared & Amilyzed:   10/30/19   1	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Prepared & Amilyzed:   10/30/19   1	Batch 1944016 - Purge and Trap EPA 5030A										
ND	Blank (1944016-BLK1)				Prepared &	z Analyzed:	10/30/19 1	[			
ND	Benzene	ND	0.0250	mg/kg							
ND	Toluene	ND	0.0250	11							
ND	Ethylbenzene	ND	0.0250	u							
ND   0.0250   ND   0.0250   ND   0.0250   ND   ND   0.0250   ND   ND   0.0250   ND   ND   0.0250   ND   ND   ND   ND   ND   ND   ND   N	p,m-Xylene	ND	0.0500	и							
No.	o-Xylene	ND	0.0250	n							
Prepared & Analyzed: 10/30/19   Prepared & Analyzed: 10/30/1	Total Xylenes	ND	0.0250	u							
Source: P910190-01   Prepared & Analyzed: 10/30/19	Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		106	50-150			
	LCS (1944016-BS1)				Prepared &	Analyzed:	10/30/19 1	l			
	Benzene	3.85	0.0250	mg/kg	5.00		77.0	70-130			
Solution	Toluene				5.00			70-130			
Name	Ethylbenzene	4.43	0.0250	н	5.00		88.7	70-130			
A47	o,m-Xylene	8.85	0.0500	и	10.0		88.5	70-130			
### 15.5   Co.55   Fig.   Frequency   Co.55   Fig.   F	o-Xylene	4.47	0.0250	и	5.00		89.4	70-130			
Source: P910190-01   Prepared & Analyzed: 10/30/19 1	Total Xylenes	13.3	0.0250	"	15.0		88.8	70-130			
Source: P910190-01   Prepared & Analyzed: 10/30/19   Source: P910190-01   Prepared	Surrogate: 4-Bromochlorobenzene-PID	8.50		"	8.00		106	50-150			
Solution	Matrix Spike (1944016-MS1)	Sour	ce: P910190-	01	Prepared &	: Analyzed:	10/30/19 1				
Solution	Benzene	3.96	0.0250	mg/kg	5.00	ND	79.2	54.3-133			
No.	Toluene	4.35	0.0250		5.00	ND	87.0	61.4-130			
Associated National Spike Dup (1944016-MSD1)   Source: P910190-01   Prepared & Analyzed: 10/30/19   Prepared & An	Ethylbenzene	4.52	0.0250	н	5.00	ND	90.3	61.4-133			
13.6   0.0250   "   15.0   ND   90.4   63.3-131     10.0	o,m-Xylene	9.01	0.0500	u	10.0	ND	90.1	63.3-131			
13.6   0.0250   "   15.0   ND   90.4   63.3-131	o-Xylene	4.55	0.0250		5.00	ND	90.9	63.3-131			
Tatrix Spike Dup (1944016-MSD1)   Source: P910190-01   Prepared & Analyzed: 10/30/19 1	Total Xylenes	13.6	0.0250		15.0	ND	90.4	63.3-131			
September   Sept	Surrogate: 4-Bromochlorobenzene-PID	8.50		"	8.00		106	50-150			
enzene 3.89 0.0250 mg/kg 5.00 ND 77.8 54.3-133 1.81 20 oluene 4.29 0.0250 " 5.00 ND 85.9 61.4-130 1.29 20 oluene 4.47 0.0250 " 5.00 ND 89.5 61.4-133 0.991 20 oluene 4.47 0.0500 " 10.0 ND 89.5 61.4-133 0.991 20 oluene 4.52 0.0500 " 10.0 ND 89.4 63.3-131 0.786 20 oluene 4.52 0.0250 " 5.00 ND 90.3 63.3-131 0.671 20 oluene 4.52 0.0250 " 15.0 ND 89.7 63.3-131 0.747 20 oluene 4.52 0.0250 " 15.0 ND 89.7 63.3-131 0.747 20 oluene 6.500 ND 89.7 63.3-131	Matrix Spike Dup (1944016-MSD1)	Sour	ce: P910190-	01	Prepared &	: Analyzed:	10/30/19 1				
bluene     4.29     0.0250     "     5.00     ND     85.9     61.4-130     1.29     20       thylbenzene     4.47     0.0250     "     5.00     ND     89.5     61.4-133     0.991     20       m-Xylene     8.94     0.0500     "     10.0     ND     89.4     63.3-131     0.786     20       Xylene     4.52     0.0250     "     5.00     ND     90.3     63.3-131     0.671     20       tatal Xylenes     13.5     0.0250     "     15.0     ND     89.7     63.3-131     0.747     20	Benzene	3.89	0.0250	mg/kg	5.00	ND	77.8	54.3-133	1.81	20	
hlylbenzene 4.47 0.0250 " 5.00 ND 89.5 61.4-133 0.991 20 m-Xylene 8.94 0.0500 " 10.0 ND 89.4 63.3-131 0.786 20 Xylene 4.52 0.0250 " 5.00 ND 90.3 63.3-131 0.671 20 tall Xylenes 13.5 0.0250 " 15.0 ND 89.7 63.3-131 0.747 20	Toluene										
M-Xylene 8.94 0.0500 " 10.0 ND 89.4 63.3-131 0.786 20 Xylene 4.52 0.0250 " 5.00 ND 90.3 63.3-131 0.671 20 tal Xylene 13.5 0.0250 " 15.0 ND 89.7 63.3-131 0.747 20	Ethylbenzene										
Xylene         4.52         0.0250         "         5.00         ND         90.3         63.3-131         0.671         20           otal Xylenes         13.5         0.0250         "         15.0         ND         89.7         63.3-131         0.747         20	p,m-Xylene			ü							
tal Xylenes 13.5 0.0250 " 15.0 ND 89.7 63.3-131 0.747 20	p-Xylene										
	Fotal Xylenes			u							
	Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		105	50-150			

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Project Name:

Leontodon ASH Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number:

19034-0001 Robert Asher Reported:

Project Manager:

10/31/19 14:57

## 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
Analyte	Kesult	Limit	Oillis	Level	Kesuit	/oiCEC	Lillits	Ki D	Lillit	110163
Batch 1944018 - DRO Extraction EPA 3570										
Blank (1944018-BLK1)				Prepared: 1	10/30/19 1 A	Analyzed: 1	0/31/19 0			
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 (1944018-BS1)				Prepared: 1	0/30/19 1 A	Analyzed: 1	0/31/19 0			
Diesel Range Organics (C10-C28)	506	25.0	mg/kg	500		101	38-132			
Surrogate: n-Nonane	48.5		"	50.0		96.9	50-200			
Matrix Spike (1944018-MS1)	Sour	ce: P910156-0	01	Prepared: 1	0/30/19 1 A	Analyzed: 1	0/31/19 0			
Diesel Range Organics (C10-C28)	487	25.0	mg/kg	500	ND	97.4	38-132			
Surrogate: n-Nonane	49.5		"	50.0		99.0	50-200			
Matrix Spike Dup (1944018-MSD1)	Sour	ce: P910156-0	)1	Prepared: 1	0/30/19 1 A	analyzed: 1	0/31/19 0			
Diesel Range Organics (C10-C28)	494	25.0	mg/kg	500	ND	98.7	38-132	1.37	20	
Surrogate: n-Nonane	49.9		"	50.0		99.8	50-200			

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Project Name:

Leontodon ASH Federal Com #1

Source

104 South 4th Street

Project Number:

Reporting

19034-0001

Spike

Reported:

Artesia NM, 88210

Project Manager: Robert Asher

10/31/19 14:57

RPD

%REC

# Nonhalogenated Organics by 8015 - GRO - Quality Control

## **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1944016 - Purge and Trap EPA 5030A										
Blank (1944016-BLK1)				Prepared &	Analyzed:	: 10/30/19 1				
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		"	8.00		97.6	50-150			
LCS (1944016-BS2)				Prepared &	Analyzed:	10/30/19 1				
Gasoline Range Organics (C6-C10)	53.9	20.0	mg/kg	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		"	8.00		96.1	50-150			
Matrix Spike (1944016-MS2)	Sour	ce: P910190-(	)1	Prepared &	Analyzed:	10/30/19 1				
Gasoline Range Organics (C6-C10)	57.6	20.0	mg/kg	50.0	ND	115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		"	8.00		98.5	50-150			
Matrix Spike Dup (1944016-MSD2)	ke Dup (1944016-MSD2) Source: P910190-01 Prepared & Analyzed: 10/30/19 1									
Gasoline Range Organics (C6-C10)	57.5	20.0	mg/kg	50.0	ND	115	70-130	0.201	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		"	8.00		98.8	50-150			

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Project Name:

Leontodon ASH Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001

Reported:

Robert Asher

10/31/19 14:57

## Anions by 300.0/9056A - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
D-4-1-1044010 A-2 E-4	00.0/00564									
Batch 1944019 - Anion Extraction EPA 30	10.0/9050A									
Blank (1944019-BLK1)				Prepared &	Analyzed:	: 10/30/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1944019-BS1)				Prepared &	z Analyzed:	: 10/30/19 1				
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1944019-MS1)	Sour	ce: P910190-	01	Prepared &	Analyzed:	: 10/30/19 1				
Chloride	577	20.0	mg/kg	250	269	123	80-120			М3
Matrix Spike Dup (1944019-MSD1)	Sour	ce: P910190-	01	Prepared &	Analyzed:	: 10/30/19 1				
Chloride	545	20.0	mg/kg	250	269	110	80-120	5.78	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 my differ slightly.

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Project Name:

Leontodon ASH Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported:

10/31/19 14:57

#### **Notes and Definitions**

M3 Matrix spike recovery was outside quality control limits due to matrix interference. 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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Client Learned on September   Particular	Report due by   Report Attention   Lab Use Only   Tat   Report Attention   Lab Work	Project information	rmation					Chain of Custody	stody							Page_	1 of 1
Address: 10 State   Addr	Attended to the control of the con	Client: EOC	Resourc	ces, Inc.		1				1 -6.100		ab Use	Only		AT	EP	A Program
Contract Command   Contract Contr	Control   Cont	Project Mar	nager: Ro	obert Ash	er er	1#1		je	Samuel of the same	Page W	3	<b>3 2</b>	Nost. oc		<u></u>	A A A A A	+
City, Sinte, 2ip Artesia, NM 88210	City, State, 2th Artesia, NM 88210	Address: 1	04 South	4th Stree	it		PA	dress: 104 South 4th Street				Ā	alysis and M	lethod			State
Final   Fina	H-2.4 H-6.4 H-6.4 H-6.4 H-6.4 H-6.4 Time Received	City, State,	Zip Arte	sia, NM 8	8210		히	v, State, Zip Artesia, NM 88210		_	CTO						15 15 15 15 15 15 15 15 15 15 15 15 15 1
H-2.4 H-2.4 H-3.4 H-3.4 H-4.4 H-6.4 H-6.1 H-6.1 H-6.1 H-6.1 H-7.4 H-6.1	H-2.4 H-2.4 H-6.4 H-6.4 H-6.4 Time Received 1:23 PM Received 1:23 PM Received 2:0 - Other Trangements are mad outed unless other arrangements are mad souted unless other arrangements are mad	Phone: (5) Email: robe	ert asher	421/ r@eogres	ources.c	om		ione: (5/5) /48-421/ nail: robert asher@eogresources	.com								×
S   1   BH-1.4	S 1 BH-2.4  S 1 BH-6.4  S 1 BH	Time	Date Sampled	Matrix	No Containers	Sample ID			Lab								Remarks
S 1 BH-2.4	S 1 BH-2.4  S 1 BH-4.4  S 1 BH-6.4  S 1 BH		0/28/19	တ	1	BH-1.4				-	-		×				BGDOC
S	S 1 BH-3.4  S 1 BH-6.4  S 1 BH		0/28/19	တ	<b>-</b>	BH-2.4	4		2	-			×				BGDOC
S 1 BH-6.4  S 2 BH 1 BH-6.4  S 3 BH-6.4  S 4 BH-6.4  S 5 BH-6.4	S 1 BH-4.4  S 1 BH-6.4  S 1 BH-6.4  S 1 BH-6.4  S 1 BH-6.4  Indiany be grounds for legal action. Sampled by:  Date Time Time Received Time Time Received Time Time Time Received Time Time Time Received Time Time Time Time Time Time Time Time		0/28/19	S	_	BH-3.4			3	-	-		×				BGDOC
S 1 BH-5.4	S 1 BH-5.4  S 1 BH-6.4  S 1 BH-6.4  In the control of this sample. I am aware that tampering with or intention and any be grounds for legal action. Sampled by:    Date   Time   Received   Time   Received   Time   Received   Time   Time   Received   Time   Time		0/28/19	တ	~	BH-4.4			ነ ነ				×				BGDOC
S 1 BH-6.4	S 1 BH-6.4  T PLEASE and authenticity of this sample. I am aware that tampering with or intention and many be grounds for legal action. Sampled bry:  Date Date Date Time Received		0/28/19	တ	1	BH-5.4			5				×				BGDOC
T PLEASE and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of the sample location. I am aware that tampering with or intentionally mislabelling the sample location. I am aware that tampering with a sample location or an area of the sample location. I am aware that tampering with a sample location or an area of the sample location. I am aware that tampering with a sample location or an area of the sample location. I am aware that tampering with a sample location or an area of the sample location. I am aware that tampering with a sample location or an area of the sample location. I am aware that tampering with a sample location or an area of the sample location or an area of the sample location. I am aware that the sample location or an area of the sample location or an area of the sample location or an area of the sample location or an ar	T PLEASE and authenticity of this sample. I am aware that tampering with or intention and may be grounds for legal action. Sampled by:    Date   Time   Received   Time   Time   Received   Time   Time		0/28/19	S	7	BH-6.4			9		_		×				BGDOC
T PLEASE and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sampled by:    Authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and authenticity of this sampled by:   Sample   Date   Time   Received by: (Signature)   Date   Time   Received by: (Signature)   Date   Time   Time   Received by: (Signature)   Date   Time   Time   Received by: (Signature)   Date   Time   Tim	r PLEASE  rand authenticity of this sample. I am aware that tampering with or intention and may be grounds for legal action. Sampled by:  Date  Time  Received  Time  Received  Time  Agueous, O - Other  days after results are reported unless other arrangements are mad																
Trime  Date  Time  Date  Time  Received by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  Date  Container Type: g-glass, p-pole	T PLEASE and authenticity of this sample. I am aware that tampering with or intention and may be grounds for legal action. Sampled by:    Date							9									
the PLEASE  and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and may be grounds for legal action. Sampled by:  Date  Time  Received by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  Container Type: g-glass, p-pole	rend authenticity of this sample. I am aware that tampering with or intention and authenticity of this sample. I am aware that tampering with or intention and analy be grounds for legal action. Sampled by:    Date																
and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and may be grounds for legal action. Sampled by:    Date   Time   Received by: (Signature)   11:23 PM   11:23 PM   10:30     Date   Time   Received by: (Signature)   Date   Time   10:30     Date   Time   Received by: (Signature)   Date   Time   Time   Container Type: g-glass, p-pole     Date   Time   Received by: (Signature)   Date   Time   Time   Time   Container Type: g-glass, p-pole     Date   Time   Received by: (Signature)   Date   Time   Time	T PLEASE and authenticity of this sample. I am aware that tampering with or intentional and may be grounds for legal action. Sampled by:  Date Time Received Time Received Time Received Time Received Agueous, O - Other days after results are reported unless other arrangements are mad																
and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or and may be grounds for legal action. Sampled by:    A	and authenticity of this sample. I am aware that tampering with or intention and may be grounds for legal action. Sampled by:    Date   Time   Received   Time   Time	Additional PO# 20563		ONS: TAT PLEA	\SE												
Date Time Received by: (Signature) Date Time AVG Temp °C U AVG U	Date Time Received 1:23 PM Received Time Date Time Received Se - Sludge, A - Aqueous, O - Other days after results are reported unless other arrangements are mad	I, (field sampler), time of collection	attest to the v	alidity and auti	henticity of th y be grounds i	nts sample. I am a for legal action. Si	ware that tampering ampled by:	g with or intentionally mislabelling the sample locatio	on, date or			Sar	ples requiring thern ked in ice at an avg t	nal preservation emp above 0 b	n must be received ut less than 6 °C o	d on Ice the day in subsequent da	they are sampled or received ays.
ime Received by: (Signature) Date Time Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	Relinquished by: (Signature)  Date Time Time Time Time Time Time Time Tim	Relinquished	by: (Sighat	O (SAIN)	2 Date	3/28/2019	Time 1:23 PM	Received by: (Signature)	Date   10-30-16	<u> </u>		DC.	eceived on		Lab Use	Only	ļu.
	Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  Container Type: <b>g - glass</b> , 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	Relinquished	by: (Signat	ure)	Date	g)	Time	Received by: (Signature)	Date	Ē	je B	FIX	VG Temp °	-	2		13
	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	Sample Matrix:	S - Soil, <b>Sd</b> -	Solid, Sg - Sh	udge, A - Aq	lueous, O - Oth	er		Container	Type: 8	- glass,	//ylod - c	olastic, ag - a	ımber gla	ss, v - VOA		

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envirotech Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401 24 hour Emergency Response Phone (800) 362-1879

Page 14 of 14



# **Analytical Report**

# **Report Summary**

Client: EOG Resources Inc. - Carlsbad

Samples Received: 10/30/2019 Job Number: 19034-0001 Work Order: P910191

Project Name/Location: Leontodon ASH Federal Com #1

Report Reviewed By:	Walter Hinshman	Date:	10/31/19	
	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.

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EOG Resources Inc. - Carlsbad Project Name: Leontodon ASH Federal Com #1

104 South 4th Street Project Number: 19034-0001 Reported:

Artesia NM, 88210 Project Manager: Robert Asher 10/31/19 14:58

# **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.4.W	P910191-01A	Soil	10/30/19	10/30/19	Glass Jar, 4 oz.
S-1.4.S	P910191-02A	Soil	10/30/19	10/30/19	Glass Jar, 4 oz.
S-1.4.E	P910191-03A	Soil	10/30/19	10/30/19	Glass Jar, 4 oz.
S-1.4.N	P910191-04A	Soil	10/30/19	10/30/19	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlsbad Project Name: Leontodon ASH Federal Com #1

 104 South 4th Street
 Project Number:
 19034-0001
 Reported:

 Artesia NM, 88210
 Project Manager:
 Robert Asher
 10/31/19 14:58

S-1.4.W P910191-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	50-1	50	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		96.7 %	50-2	00	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.0 %	50-1	50	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	336	20.0	mg/kg	1	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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EOG Resources Inc. - CarlsbadProject Name:Leontodon ASH Federal Com #1104 South 4th StreetProject Number:19034-0001Reported:Artesia NM, 88210Project Manager:Robert Asher10/31/19 14:58

S-1.4.S P910191-02 (Solid)

		Reporting	,						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-1	'50	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		94.7 %	50-2	?00	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.5 %	50-1	'50	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	619	20.0	mg/kg	1	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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



EOG Resources Inc. - Carlsbad Project Name: Leontodon ASH Federal Com #1

 104 South 4th Street
 Project Number:
 19034-0001
 Reported:

 Artesia NM, 88210
 Project Manager:
 Robert Asher
 10/31/19 14:58

## S-1.4.E P910191-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-13	50	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		92.7 %	50-20	00	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		83.8 %	50-15	50	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	362	20.0	mg/kg	1	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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Project Name:

Leontodon ASH Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported:

10/31/19 14:58

S-1.4.N P910191-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-1.	50	1944016	10/30/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944018	10/30/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		91.3 %	50-2	00	1944018	10/30/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944016	10/30/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.7 %	50-1.	50	1944016	10/30/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2220	40.0	mg/kg	2	1944019	10/30/19	10/30/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad Project Name: Leontodon ASH Federal Com #1

 104 South 4th Street
 Project Number:
 19034-0001
 Reported:

 Artesia NM, 88210
 Project Manager:
 Robert Asher
 10/31/19 14:58

### **Volatile Organics by EPA 8021 - Quality Control**

## **Envirotech Analytical Laboratory**

		Reporting		Spike	Source	., .	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1944016 - Purge and Trap EPA 5030A										
Blank (1944016-BLK1)				Prepared &	: Analyzed:	10/30/19 1				
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	u							
p,m-Xylene	ND	0.0500	u							
o-Xylene	ND	0.0250	n							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		106	50-150			
LCS (1944016-BS1)				Prepared &	Analyzed:	10/30/19 1				
Benzene	3.85	0.0250	mg/kg	5.00		77.0	70-130			
Toluene	4.26	0.0250	"	5.00		85.1	70-130			
Ethylbenzene	4.43	0.0250	н	5.00		88.7	70-130			
p,m-Xylene	8.85	0.0500	n	10.0		88.5	70-130			
o-Xylene	4.47	0.0250	n	5.00		89.4	70-130			
Total Xylenes	13.3	0.0250	п	15.0		88.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.50		11	8.00		106	50-150			
Matrix Spike (1944016-MS1)	Sou	ırce: P910190-(	)1	Prepared &	Analyzed:	10/30/19 1				
Benzene	3.96	0.0250	mg/kg	5.00	ND	79.2	54.3-133			
Toluene	4.35	0.0250	11	5.00	ND	87.0	61.4-130			
Ethylbenzene	4.52	0.0250	u	5.00	ND	90.3	61.4-133			
p,m-Xylene	9.01	0.0500	п	10.0	ND	90.1	63.3-131			
o-Xylene	4.55	0.0250	u	5.00	ND	90.9	63.3-131			
Total Xylenes	13.6	0.0250	u	15.0	ND	90.4	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.50		"	8.00		106	50-150			
Matrix Spike Dup (1944016-MSD1)	Sou	ırce: P910190-(	)1	Prepared &	Analyzed:	10/30/19 1				
Benzene	3.89	0.0250	mg/kg	5.00	ND	77.8	54.3-133	1.81	20	
Toluene	4.29	0.0250	III JAK	5.00	ND	85.9	61.4-130	1.29	20	
Ethylbenzene	4.47	0.0250	п	5.00	ND	89.5	61.4-133	0.991	20	
p,m-Xylene	8.94	0.0500		10.0	ND	89.4	63.3-131	0.786	20	
o-Xylene	4.52	0.0250	н	5.00	ND	90.3	63.3-131	0.671	20	
Total Xylenes	13.5	0.0250	и	15.0	ND	89.7	63.3-131	0.747	20	
Surrogate: 4-Bromochlorobenzene-PID	8.44	V-V	"	8.00		105	50-150			

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Project Name:

Leontodon ASH Federal Com #1

104 South 4th Street

Project Number:

19034-0001

Reported:

Artesia NM, 88210

Project Manager: Robert Asher

10/31/19 14:58

# 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
mayo	result	Lillit	Cilita	Bover	result	, utde	Zillito		2	1.000
Batch 1944018 - DRO Extraction EPA 3570										
Blank (1944018-BLK1)				Prepared:	10/30/19 1 A	Analyzed: 1	0/31/19 0			
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 (1944018-BS1)				Prepared:	10/30/19 1 <i>A</i>	Analyzed: 1	0/31/19 0			
Diesel Range Organics (C10-C28)	506	25.0	mg/kg	500		101	38-132			
Surrogate: n-Nonane	48.5		"	50.0		96.9	50-200			
Matrix Spike (1944018-MS1)	Sour	ce: P910156-0	01	Prepared:	10/30/19 1 <i>A</i>	Analyzed: 1	0/31/19 0			
Diesel Range Organics (C10-C28)	487	25.0	mg/kg	500	ND	97.4	38-132			
Surrogate: n-Nonane	49.5		"	50.0		99.0	50-200			
Matrix Spike Dup (1944018-MSD1)	Sour	ce: P910156-0	)1	Prepared:	10/30/19 1 <i>A</i>	Analyzed: 1	0/31/19 0			
Diesel Range Organics (C10-C28)	494	25.0	mg/kg	500	ND	98.7	38-132	1.37	20	
Surrogate: n-Nonane	49.9		"	50.0		99.8	50-200			

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



Project Name:

Leontodon ASH Federal Com #1

104 South 4th Street Artesia NM, 88210 Project Number:

19034-0001

Reported:

Project Manager:

Robert Asher

10/31/19 14:58

## Nonhalogenated Organics by 8015 - GRO - Quality Control

### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1944016 - Purge and Trap EPA 5030A										
Blank (1944016-BLK1)				Prepared &	Analyzed:	10/30/19 1				
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		"	8.00		97.6	50-150			
LCS (1944016-BS2)				Prepared &	Analyzed:	10/30/19 1				
Gasoline Range Organics (C6-C10)	53.9	20.0	mg/kg	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		"	8.00		96.1	50-150			
Matrix Spike (1944016-MS2)	Sour	ce: P910190-0	01	Prepared &	Analyzed:	10/30/19 1				
Gasoline Range Organics (C6-C10)	57.6	20.0	mg/kg	50.0	ND	115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		"	8.00		98.5	50-150			
Matrix Spike Dup (1944016-MSD2)	Sour	ce: P910190-0	)1	Prepared &	Analyzed:	10/30/19 1				
Gasoline Range Organics (C6-C10)	57.5	20.0	mg/kg	50.0	ND	115	70-130	0.201	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		"	8.00		98.8	50-150			

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EOG Resources Inc. - Carlsbad Project Name: Leontodon ASH Federal Com #1

104 South 4th Street Project Number: 19034-0001 Reported:

Artesia NM, 88210 Project Manager: Robert Asher 10/31/19 14:58

# Anions by 300.0/9056A - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1944019 - Anion Extraction EPA 300.0/90	)56A									
Blank (1944019-BLK1)				Prepared &	Analyzed:	10/30/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1944019-BS1)				Prepared &	Analyzed:	10/30/19 1				
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1944019-MS1)	Source	: P910190-0	)1	Prepared &	Analyzed:	10/30/19 1				
Chloride	577	20.0	mg/kg	250	269	123	80-120			M3
Matrix Spike Dup (1944019-MSD1)	Source	: P910190-0	)1	Prepared &	Analyzed:	10/30/19 1				
Chloride	545	20.0	mg/kg	250	269	110	80-120	5.78	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 my differ slightly.

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nin@envirotech-inc.com



Project Name:

Leontodon ASH Federal Com #1

104 South 4th Street

Project Number:

19034-0001

Reported:

Artesia NM, 88210

Project Manager:

Robert Asher

10/31/19 14:58

#### **Notes and Definitions**

M3 Matrix spike recovery was outside quality control limits due to matrix interference. 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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Page 12 of 12

Charlest College Control College Col	±	Project Information				Chain of Custody	tody							Page1	of 1	
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1 by: (Signature) Date   Imme   Received by: (Signature) Date   Imme   T1   T2   T3    Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA    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 received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.  Senvironment of the above samples is applicable only to an advisorated 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 a size of t		/ Py: (Signat	(ante)	Date 10	714 \$28/2019	23 PM	Date 10-30-19		ы <b>Ж</b>		Received on ic	äi				
x: 5-Soil, Sg - Solid, Sg - Sludge, A - Aqueous, O - Otherand 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 s received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.  Senvironments 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 environe the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.  Senvironments 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 environment and in the above samples is applicable only to environment paid for on the report.  Ph (505) 632-0815 FX (505) 632-1865  Analytical Laboratory  Analytical Laboratory		ı by: (signat	ure)	חשב		Received by: (signature)	Date		e e		T1 AVG Temp °C_	5		<u>[]</u>		
5796 US Highway 64, Farmington, NM 87401 24 hour Emergency Response Phone (800) 362-1879		s are discarde	- Solid, Sg - S ed 30 days af the laborato	Sludge, A - Aq fter results ar ory with this C	queous, O - Otherre reported unless oth COC. The liability of tl	er arrangements are made. Hazardous samples will be retu he laboratory is limited to the amount paid for on the repoi	Container Turned to client or or cr.	ype: 8	- glass, I of at the	p - pol	/plastic, ag - am pense. The report f	ber glas or the ana	s, v - VOA	e samples is appli	cable only to	
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			Ana	lytical L	aboratory	Z4 riour Emergency nesponse mione (2007) su	25-10/3							ibadiniii@enviror	ecn-unc.com	



December 16, 2019

# Figure 4

**NMOCD Final Sampling Notification** 

# **Bob Asher**

From:

**Bob Asher** 

Sent:

Thursday, October 24, 2019 6:06 AM

To:

robert.hamlet@state.nm.us

Cc:

Katie Jamison (Katie\_Jamison@eogresources.com); Chase Settle

Subject:

Sample Notification (Leontodon ASH Federal Com #1)

Tracking:

Recipient

Read

robert.hamlet@state.nm.us

Katie Jamison (Katie\_Jamison@eogresources.com)

Chase Settle

Read: 10/24/2019 8:26 AM

Rob,

EOG Resources, Inc. respectfully submits notification of final sampling to be conducted at the below location on October 28, 2019 at 8:15 AM. If you have any questions please contact me.

Leontodon ASH Federal Com #1 UL O, Section 10, T9S-R26E Chaves County, NM 30-005-63324 2RP-5066

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** 

**eog resources** 



December 16, 2019

# Figure 5

Final C-141

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**

				OGRID		
EOG Y Resources, Inc.				25575		
Contact Name Robert Asher					Telephone	
				575-748		
Contact email bob_asher@eogresources.com				Incident	# (assigned by OCD)	
Contact mailing address						
104 S. 4 <sup>th</sup> Str		NM 88210				
1015.1 56	THEODIU,	, 1111 00210				
	Location of Release Source					
Latitude 32	.54242			Longitue	de -104.28284	
(NAD 83 in decimal					decimal places)	
Site Name Leontodon ASH Federal Com #1				Site Ty	pe Facility	
Date Releas	e Discovered	d 11/7/2018		API# 3	0-005-63324	
Unit Letter	Section	Township	Range	Co	unty	
0	10	9S	26E		aves	
Surface Own	er: 🔲 State	Federal 🔲 🗆	Tribal 🔲 Private (A	Name:	)	
			•		,	
			Nature and	d Volume o	of Release	
Material(s) Released (Select all that apply and attach calculate					cific justification for the volumes provided below)	
Crude Oil		Volume Release		carculations of spe-	Volume Recovered (bbls)	
Produced	Water	Volume Release	d (bbls) 7		Volume Recovered (bbls) 2	
Is the concentration of dissolved chloride				loride in the	⊠ Yes □ No	
produced water >10,000 mg/l?  Condensate Volume Released (bbls)					Volume Recovered (bbls)	
☐ Natural Gas Volume Released (Mcf)					Volume Recovered (Mcf)	
Other (describe)  Volume/Weight Released (provide units)				unite)	Volume/Weight Recovered (provide units)	
Volume Weight Released (provide units)			released (provide	umisj	Volumes Weight Recovered (provide units)	
Cause of Rele	ease:					
Transfer pum		•				
•	•					
***************************************	***************************************					

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# State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the follow	ing items must be included in the closure report.			
A scaled site and sampling diagram as described in 19.15	5.29.11 NMAC			
Photographs of the remediated site prior to backfill or pl must be notified 2 days prior to liner inspection)	hotos of the liner integrity if applicable (Note: appropriate OCD District office			
☐ Laboratory analyses of final sampling (Note: appropriate	e ODC District office must be notified 2 days prior to final sampling)			
☐ Description of remediation activities				
and regulations all operators are required to report and/or file c may endanger public health or the environment. The acceptant should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or re-	omplete to the best of my knowledge and understand that pursuant to OCD rules certain release notifications and perform corrective actions for releases which use of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, use of a C-141 report does not relieve the operator of responsibility for regulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.  Title: Environmental Supervisor  Date: 12/16/2019  Telephone: 575-748-4217			
OCD Only				
Received by:	Date:			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by:	Date:			
Printed Name:	Title:			