

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

August 28, 2022

Bradford Billings EMNRD 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Tenneco SWD System (Vince BGH #1)

30-025-37104 N-30-9S-35E Lea County, NM 1RP-4530

Incident # nAB1635557047

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site which currently has an open incident on the NMOCD E-Permitting website. The report is being submitted in reference to the C-141 Initial dated December 8, 2016, with an original Closure Report submittal date of November 2, 2017. EOG Resources, Inc. has included a C-141 Final on the most current form in this Closure Report, and hereby requests closure of the open incident.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

Chase Settle

Rep Safety & Environmental Sr

EOG Resources, Inc.

Chase Settle



August 28, 2022

Tenneco SWD System (Vince BGH #1)

Closure Report

30-025-37104

N-30-9S-35E

Lea County, NM

August 28, 2022

nAB1635557047

energy opportunity growth



August 28, 2022

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August 28, 2022

I. Location

The site is located in Lea County, New Mexico approximately 3.5 miles west of Crossroads.

II. Background

On November 30, 2016, EOG Y Resources Inc. (EOG) had a release of 440 barrels produced water at the Tenneco SWD System pipeline near the Vince BGH #1 battery with 0 barrels of the fluid recovered. The area impacted was approximately 215 feet by 30 feet along the pipeline Right of Way. A C-141 Initial (Appendix A) was submitted to NMOCD on December 8, 2016.

Characterization activities were completed on the site, with a Remediation Plan submitted to NMOCD on May 5, 2017. NMOCD provided approval of the Remediation Plan on May 19, 2017, this is attached as Appendix B.

III. Scope of Work Completed

Remediation included the excavation of impacted soils to a depth of four (4) feet below grade surface, disposal of the excavated impacted soils, installation of a 20 ml synthetic liner, backfilling with clean soil, and revegetation of the site.

On November 2, 2017, the original Closure Report and C-141 Final was submitted to the NMOCD-District I office, with an automatic reply returned from NMOCD confirming the receival of the report. These documents are included as Appendix C.

IV. Closure Request

This release, remediation work, and original C-141 Final submission occurred prior to the passage of the current Spill Rule (NMAC 19.15.29), therefore the requirements for confirmation samples cannot be accommodated as they were not required or requested when the work plan was approved by NMOCD.

Based on the completion of the approved work plan, EOG Resources, Inc. requests Closure of nAB1635557047, the current C-141 Closure Form is included with this Closure Report as Appendix D.

energy opportunity growth



August 28, 2022

Appendix A Original C-141 Initial

energy opportunity growth

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 Result CONSERVATION

IL CONSERVATION Form C-141
Revised August 8, 2011
ARTESIA DISTRICT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in DEC 0 8 2016 accordance with 19.15.29 NMAC.

			Rel	ease	Notific	ation	and Co	rrective A	Elibhy	ED			
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EOG Y Res	ources, In	C,		000	575_		Chase Settle			***************************************			
Address							Telephone N						
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Tenneco SV	VD System	n (Vince BG	H #1)				Pipeline						
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Unit Letter	Section	Township	Range	Feet	from the		South Line	Feet from the	East/We	est Line	County		· · · · · · · · · · · · · · · · · · ·
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Source of Re								lour of Occurrence			Hour of Di		
10" Poly Line		<u> </u>	·····					6; 3:30 p.m.		11/30/20	16; 3:30 p.n	1.	
Was Immedia	ate Notice		Yes [] No	☐ Not Re	equired	If YES, To Kristen Ly						
By Whom?				***************************************			Date and I				······································		
Bob Asher			······································		· · · · · · · · · · · · · · · · · · ·		12/1/2016				·		
Was a Water	course Rea	ched?	Yes 2	No			If YES, Volume Impacting the Watercourse. N/A						
If a Watercon	urse was In	npacted, Descri	ribe Fully.	*			<u> </u>			······································			
Describe Cau	use of Prob	lem and Reme	edial Actio	n Take	en.*	**************************************				<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
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Signature:										4	h //	/	
Printed Nam	ie: Chase S	Settle					Approved by	y Environmental S	Specialist	: <i>[[</i>	1-6/A		
Title: NM A	Adv. Enviro	onmental Repr	resentative				Approval Da	nte: 12/20	116	Expiration	n Date:	//A	
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		Settle@eogr			5.0.4.51		Conditions of	of Approval:	. 1	36	Attache	xl th	
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August 28, 2022

Appendix BRemediation Plan Approval Email

energy opportunity growth

From: Yu, Olivia, EMNRD
To: Chase Settle

Cc: Oberding, Tomas, EMNRD; Katie Parker; Bob Asher

Subject: RE: Tenneco SWD System (Vince BGH #1) Work Plan

Date: Friday, May 19, 2017 10:49:08 AM

Attachments: <u>image001.png</u>

approved Tenneco SWD System (Vince BGH #1) Work Plan 1RP-4530.pdf

External email. Use caution.

Dear Mr. Settle:

NMOCD approves the delineation workplan for 1RP-4530 with one condition: submit soil bore logs. Please see the attachment for your records.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I Olivia.yu@state.nm.us 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Chase Settle [mailto:Chase_Settle@eogresources.com]

Sent: Friday, May 5, 2017 3:29 PM

To: Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us>

Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>; Katie Parker <Katie_Parker@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>

Subject: Tenneco SWD System (Vince BGH #1) Work Plan

Please find attached the work plan for the below listed location.

Tenneco Pipe Line System (Vince BGH #1) Section 30, T9S-R35E Lea County, New Mexico 33.50109, -103.40025 1RP-4530

Thank you,

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources

105 S. 4th Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)





August 28, 2022

Appendix C Original Closure Report

energy opportunity growth



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

November 2, 2017

Ms. Olivia Yu NMOCD District I 1625 N. French Drive Hobbs, New Mexico 88240

Re:

Tenneco SWD System (Vince BGH #1)

Section 30, T09S-R35E Lea County, New Mexico 33.50109, -103.40025

1RP-4530

Ms. Yu,

EOG Y Resources, Inc. is submitting the enclosed CLOSURE REPORT and C-141 Final for the above captioned remediation. The plan is being submitted in response to the C-141 report dated December 8, 2016 with a Work Plan that was approved on May 18, 2017.

If you have any questions, feel free to call me at (575) 748-1471

Thank you.

EOG Y Resources, Inc.

Chase Settle

Chase Settle

Rep Safety & Environmental II

Tenneco SWD System 1RP-4530 Closure Report



November 2, 2017

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EOG Y Resources, Inc. CLOSURE REPORT

Tenneco SWD System (Vince BGH #1)

Section 30, T09S-R35E

Lea County, New Mexico

November 2, 2017

1RP- 4530

Tenneco S	WD System @eog resources	
1RP-4530 Closure Re	NOVCHIDE 2, 2	2017
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111.	Surface and Ground Water	1
IV.	Soils	1
V	Scope of Work Completed	1

Figures:

Figure 1: Site Map with Sample Points and Measurements

Photos

Appendices:

Appendix A: NMOSE Well Log Information

Appendix B: Sample Data Sheet

Appendix C: Core Rig Bore Log

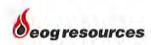
Appendix D: Analytical Data

Appendix E: Form C-141 Initial

Appendix F: Form C-141 Final

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Tenneco SWD System 1RP-4530 Closure Report



November 2, 2017

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L Location

From Crossroads, NM, take Carrol Rd (T-170) west for approximately 3.5 miles, then turn south on lease road, follow lease road for 0.7 mile, and then follow the pipeline ROW southwest for 1200 feet to the release area.

Background II.

On December 8, 2016, EOG Y Resources, Inc. submitted to the NMOCD District I office a Form C-141 for the release of 440 B/PW with none recovered. The affected area is approximately 215 feet by 30 feet around a pipeline Right of Way. Failure of a poly transfer line caused the release. Initial delineation samples were taken (12/14/2016) and sent to a NMOCD approved laboratory (12/27/2016, 12/28/2016, & 12/29/2016, results enclosed). Further sampling was conducted, at which time an impermeable/impenetrable rock plate was encountered at a depth between 14 to 17 feet BSL, (1/4/2017 & 1/10/2017) with samples sent to a NMOCD approved laboratory (1/20/2017, results enclosed). On the instruction of NMOCD, further sampling was conducted (3/17/2017, NMOCD was provided 48 hours' notice prior to sampling as an invitation to witness and provide guidance for sampling activities) and sent to a NMOCD approved laboratory (3/21/2017).

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The New Mexico Office of the State Engineer displays one well within 10,000 meters to have recorded depth of water. That depth is 137 feet. That well is approximately 2.9 miles east of the release area at an elevation of 4126 feet, while the release is at an elevation of 4169 feet. Therefore, depth to groundwater at this location (Section 30, T09S-R35E) is approximately 180 feet, making the site ranking a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

Depth to ground water > 100' > 1000' Wellhead Protection Area Distance to surface water body > 1000'

IV. Soils

The area consists of soils that are loam based topsoil on top of a caliche layer which overlies a rock plate, providing a naturally occurring, restrictive barrier that along with a thick clay layer at 35' to 40' below surface level (BSL) prevent migration of contaminants through the vadose zone.

V. Scope of Work Completed

After approval of the work plan by NMOCD on May 18, 2017, EOG Y Resources, Inc. contracted with Hungry Horse LLC to perform the remediation work at the release site. Four (4) feet of impacted soil was excavated from the release area, hauling all excavated soil to a NMOCD approved facility for disposal. Then six (6) inches of topsoil cushion was installed in the excavation, followed by the 20 ml synthetic liner which was run under the poly pipeline that laid within the excavation. Another six (6) inches of topsoil was then installed on top of the liner completing the liner and cushion installation. Next in the backfill process was the two (2) feet of caliche, followed by two (2) feet of topsoil to allow for vegetative repopulation of the release site. The site was then reseeded in accordance with the private surface owner's requests. Because there were no TPH or BTEX issues at the release site, there were no further testing activities for those constituents. All chloride contamination was delineated vertically and horizontally prior to the submission and approval of the work plan. With all remedial activities completed according to the NMOCD approved work plan, a C-141 Final is submitted requesting closure for the site.

Tenneco SWD System 1RP-4530 Closure Report

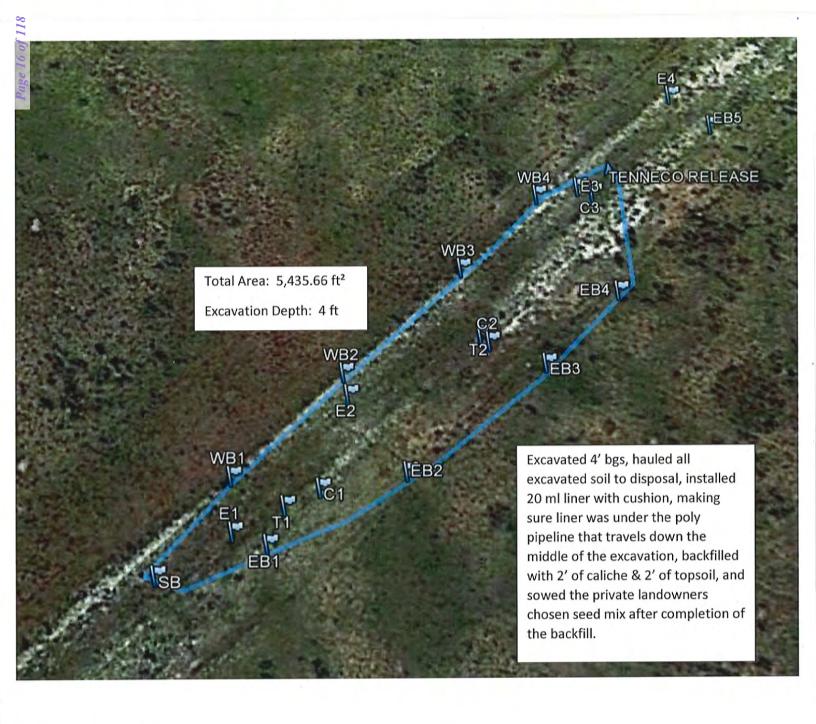


November 2, 2017

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Figure 1

Site Map







Received by OCD: 8/30/2022 11:14:03 AM





Tenneco SWD System 1RP-4530 Closure Report



November 2, 2017

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Appendix A

NMOSE Well Log Information

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

Subbasin

rters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) q q q Source 6416 4 Sec Tws Rng Shallow 1 4 1 27 09S 35E

(NAD83 UTM In meters) 653241

Distance Start Date 4702 04/04/2017

(in feet) Depth Water Driller 137 GLENN, TRAVIS GILLIAM, DUB ALLEN

Number 1719 1145

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L 12426 POD1 Record Count: 2

POD Number L 14254 POD1

UTMNAD83 Radius Search (in meters);

Easting (X): 648606.41

Northing (Y): 3707981.26

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

4/25/17 10:32 AM

WELLS WITH WELL LOG INFORMATION



November 2, 2017

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Appendix B

Sample Data Sheet

Received by OCD: 8/30/2022 11:14:03 AM

			enneco SWD S	ystem (Vince	BGH #1)	- CAREV	CDO	550	Colonida
Area	Analysis	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
E1-4'	1612928	Release Area	12/14/2016	Backhoe	4'	ND	ND	ND	490
E1-6'	1612928	Release Area	12/14/2016	Backhoe	6'	ND	ND	ND	4800
E1-8'	1612928	Release Area	12/14/2016	Backhoe	8'	ND	ND	ND	3300
E1-9.5'	1612928	Release Area	12/14/2016	Backhoe	9.5'	ND	ND	ND	4600
E2-4'	1612928	Release Area	12/14/2016	Backhoe	4'	ND	ND	ND	2400
E2-6'	1612928	Release Area	12/14/2016	Backhoe	6'	ND	ND	ND	4900
E2-8'	1612928	Release Area	12/14/2016	Backhoe	8'	MD	ND	ND	3300
E2-9.5'	1612928	Release Area	12/14/2016	Backhoe	9.5'	ND	ND	ND	3600
E3-4"	1612928	Release Area	12/14/2016	Backhoe	4'	ND	ND	ND	2000
E3-6'	1612928	Release Area	12/14/2016	Backhoe	6'	ND	ND	ND	3000
E3-8'	1612928	Release Area	12/14/2016	Backhoe	8'	ND	ND	ND	4600
E3-10'	1612928	Release Area	12/14/2016	Backhoe	10'	ND	ND	ND	4100
E3-12'	1612928	Release Area	12/14/2016	Backhoe	12'	ND	ND	ND	3700
E3-14.5'	1701495	Release Area	12/14/2016	Trackhoe	14.5'				3100
E3-16.5'	1701495	Release Area	12/14/2016	Trackhoe	16.5'				3700
E4-1'	1612928	Release Area	12/14/2016	Backhoe	1'	ND	ND	ND	ND
		The second second second second	12/14/2016	Backhoe	2'	ND	ПD	ND	ND
E4-2'	1612928	Release Area	12/14/2016	Backhoe	3'	ND	ND	ND	ND
E4-3'	1612928	Release Area		The second secon	4'	ND	ND	ND	ND
E4-4'	1612928	Release Area	12/14/2016	Backhoe	5.25'	ND	ND	ND	ND
E4-5.25	1612928	Release Area	12/14/2016	Backhoe		MD	IND	IND	4200
T1-10.5	1701495	Release Area	1/4/2017	Trackhoe	10.5'				2800
T1-12.5'	1701495	Release Area	1/4/2017	Trackhoe	12.5'				
T1-14.5'	1701495	Release Area	1/4/2017	Trackhoe	14.5'				2700
T1-15.5'	1701495	Release Area	1/4/2017	Trackhoe	15.5'				3400
12-10.5	1701495	Release Area	1/10/2017	Trackhoe	10.5'				4300
12-12.5	1701495	Release Area	1/10/2017	Trackhoe	12.5'				5400
12-14.5	1701495	Release Area	1/10/2017	Trackhoe	14.5'				3800
T2-10.5	1701495	Release Area	1/10/2017	Trackhoe	10.5'				4300
12-12.5	1701495	Release Area	1/10/2017	Trackhoe	12.5'				5400
12-14.5	1701495	Release Area	1/10/2017	Trackhoe	14.5'				3800
C1-20'	H700714	Release Area	3/17/2017	Core Rig	20'				944
C1-25'	H700714	Release Area	3/17/2017	Core Rig	25'			LICE OF STREET	240
C1-30'	H700714	Release Area	3/17/2017	Core Rig	30'			1	128
C1-35'	H700714	Release Area	3/17/2017	Core Rig	35'			L-0.0	112
C2-20'	H700710	Release Area	3/17/2017	Core Rig	20'			-	2240
C2-25'	H700710	Release Area	3/17/2017	Core Rig	25'				2080
C2-30'	H700710	Release Area	3/17/2017	Core Rig	30'			100	1500
C2-35'	H700710	Release Area	3/17/2017	Core Rig	35'				1540
C2-40'	H700710	Release Area	3/17/2017	Core Rig	40'				1400
C2-45'	H700710	Release Area	3/17/2017	Core Rig	45'				48
And the Control of th	LIBOARA		3/17/2017	Core Rig	50'				32
C2-50'	H700710	Release Area	3/17/2017	Core Rig	55'				48
C2-55'	H700710	Release Area	3/17/2017	Core Rig	20'	-			1560
C3-20'	H700709	Release Area		Core Rig	25'				400
C3-25'	H700709	Release Area	3/17/2017		30'				208
C3-30'	H700709	Release Area	3/17/2017	Core Rig	35'				1380
C3-35'	H700709	Release Area	3/17/2017	Core Rig					48
C3-40'	H700709	Release Area	3/17/2017	Core Rig	40'				48
C3-45'	H700709	Release Area	3/17/2017	Core Rig	45'				80
C3-50'	H700709	Release Area	3/17/2017	Core Rig	50'	NIS	KUIN	KUN	
EB1-1'	1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	ND
EB1-5'	1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	ND
EB2-1	1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	ND
EB2-5'	1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	ND
EB3-5'	1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	3900
EB3-10'	1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	4200
EB3-F	1701495	Edge	1/4/2017	Hand Auger	1'				370
EB3-F+3'	1701495	Edge	1/4/2017	Hand Auger	1'			W-18	ND
	Marie Marie V. M. Marie Marie Committee	Edge	1/4/2017	Hand Auger	1'	1		10000	120
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, h	Detroited of post	וזכמו זו דווומצווו	
	DUEDONAL OF POSTO	כמסכמ זה דוומלות	
, in	DUILDING OF POSTOR	כמסכמ זה דוומלות	
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h	DIVIDIONI OF POSTOJO	כוכמזכמ ומ דוומצוו	
h	DUILDING OF POSTOR	כוכמזכמ ומ דוומצוו	
h	DIVIDIONI OF POSTOJO	כוכמזכמ ומ דוומצוו	

EB4-10' [1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	3900
EB4-F	1701495	Edge	1/4/2017	Hand Auger	1'				ND
EB4-F+3'	1701495	Edge	1/4/2017	Hand Auger	1'				ND
EB4-F+6'	1701495	Edge	1/4/2017	Hand Auger	1'				ND
EB4-F+9'	1701495	Edge	1/4/2017	Hand Auger	1'			53.	ND
EB4-F+12"	1701495	Edge	1/4/2017	Hand Auger	1'			F. V	ND
EB5-1	1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	ND
EB5-5'	1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	ND
EB5-10'	1612936	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	ND
WB1-1'	1612933	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	2000
WB1-2'	1701495	Edge	1/4/2017	Backhoe	1'			(5 S)	ND
WB1-F	1701495	Edge	1/4/2017	Backhoe	1'				ND
WB1-F+1'	1701495	Edge	1/4/2017	Backhoe	1'				ND
WB2-1'	1612933	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	5100
WB2-2"	1701495	Edge	1/4/2017	Backhoe	1'				ND
WB2-F	1701495	Edge	1/4/2017	Backhoe	1'				ND
WB2-F+1'	1701495	Edge	1/4/2017	Backhoe	1'				30
WB3-1'	1612933	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	3500
WB3-2'	1701495	Edge	1/4/2017	Backhoe	1'				ND
WB3-F	1701495	Edge	1/4/2017	Backhoe	1'				ND
WB3-F+1'	1701495	Edge	1/4/2017	Backhoe	1'				ND
WB4-1'	1612933	Edge	12/14/2016	Backhoe	1'	ND	ND	ND	2200
WB4-2'	1701495	Edge	1/4/2017	Backhoe	1'				ND
WB4-F	1701495	Edge	1/4/2017	Backhoe	1'				ND
WB4-F+1	1701495	Edge	1/4/2017	Backhoe	1'				ND
SB-F	1701495	Edge	1/4/2017	Backhoe 180', Section 3	1'		Line .		ND

All results are ppm. Chlorides for documentation
Released: 440 B/PW; Recovered: 0 B/PW Release Date: 11/30/2016

Tenneco SWD System 1RP-4530 Closure Report



November 2, 2017

Released to Imaging: 11/2/2022 1:53:01 PM

Appendix C

Core Rig Bore Log

Tenneco SWD System Core Rig Soil Bore Log 3-17-2017

Sample ID	Time	Soil Type	Sample Color	Water Reached	Comments
C1-20'	10:50	Cal/Rock	White	NO	Hard drilling, rock plate
C1-25'	11:55	Cal/Rock	White	NO	Hard drilling, rock plate
C1-30'	12:07	Sand/Cal	Red	NO	Normal for type
C1-35'	12:20	Sand/Cal	Red	NO	Normal for type
C2-20'	1:00	Cal/Rock	White	NO	Rock plate less solid than C1
C2-25'	1:11	Cal/Rock	White	NO	"
C2-30'	1:20	Cal/Rock	White	NO	"
C2-35'	1:30	Sand/Cal	Cream	NO	Normal for type
C2-40'	1:41	Sand/Cal	Red	NO	"
C2-45'	1:57	Clay	Red	NO	First part of clay layer
C2-50'	3:15	Sand/Clay	Red	NO	Clay layer was very hard last 2-3 feet, then through
C2-55'	3:39	Sand/Clay	Red	NO	Normal for type
C3-20'	4:17	Cal/Rock	White	NO	Rock plate consistent with C2
C3-25'	4:28	Sand/Cal	Cream	NO	Thinner plate, into sand and caliche faster
C3-30'	4:34	Sand/Cal	Red	NO	Normal for type
C3-35'	4:42	Sand/Cal	Red	NO	"
C3-40'	5:16	Clay	Red	NO	Hit clay at 38'- not as hard as C2
C3-45'	5:28	Clay	Red	NO	Normal for type
C3-50'	5:43	Sand	Red	NO	Normal for type

Compiled and created by Chase Settle, EOG Resources, S&E Rep II, Artesia, NM 3/17/2017

November 2, 2017

Released to Imaging: 11/2/2022 1:53:01 PM

Appendix D

Analytical Data





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 27, 2016

Chase Settle

EOG Resources 105 South Fourth Street Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Tenneco SWD System

OrderNo.: 1612928

Released to Imaging: 11/2/2022 1:53:01 PM

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 18 sample(s) on 12/16/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: E1-4'

Project:

Tenneco SWD System

Collection Date: 12/14/2016 9:57:00 AM

Lab ID:

1612928-001

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Ana	yst: LG T
Chloride	490	30	mg/Kg	20 12/20/2016 12:06:0	5 PM 29304
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANIC	S		Ana	yst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1 12/22/2016 1:40:45	PM 29270
Surr: DNOP	108	70-130	%Rec	1 12/22/2016 1:40:45	PM 29270
EPA METHOD 8015D: GASOLINE F	RANGE			Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1 12/21/2016 10:01:1	4 AM 29264
Surr: BFB	90.0	68.3-144	%Rec	1 12/21/2016 10:01:1	4 AM 29264
EPA METHOD 8021B: VOLATILES				Ana	lyst: NSB
Benzene	ND	0.024	mg/Kg	1 12/21/2016 10:01:1	4 AM 29264
Toluene	ND	0.047	mg/Kg	1 12/21/2016 10:01:1	4 AM 29264
Ethylbenzene	ND	0.047	mg/Kg	1 12/21/2016 10:01:1	4 AM 29264
Xylenes, Total	ND	0.094	mg/Kg	1 12/21/2016 10:01:1	4 AM 29264
Surr: 4-Bromofluorobenzene	97.4	80-120	%Rec	1 12/21/2016 10:01:1	4 AM 29264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Lab ID:

1612928-002

Tenneco SWD System

Matrix: SOIL

Client Sample ID: E1-6'

Collection Date: 12/14/2016 10:02:00 AM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst:	MRA
Chloride	4800	150	mg/Kg	100 12/21/2016 3:06:12 PM	29304
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANIC	S		Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1 12/22/2016 2:50:20 PM	29270
Surr: DNOP	114	70-130	%Rec	1 12/22/2016 2:50:20 PM	29270
EPA METHOD 8015D: GASOLINE	RANGE			Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1 12/21/2016 10:24:43 AM	1 29264
Surr: BFB	87.9	68.3-144	%Rec	1 12/21/2016 10:24:43 AM	1 29264
EPA METHOD 8021B: VOLATILES				Analyst	NSB
Benzene	ND	0.025	mg/Kg	1 12/21/2016 10:24:43 AM	1 29264
Toluene	ND	0.049	mg/Kg	1 12/21/2016 10:24:43 AM	1 29264
Ethylbenzene	ND	0.049	mg/Kg	1 12/21/2016 10:24:43 AM	1 29264
Xylenes, Total	ND	0.099	mg/Kg	1 12/21/2016 10:24:43 AM	A 29264
Surr: 4-Bromofluorobenzene	95.9	80-120	%Rec	1 12/21/2016 10:24:43 AM	A 29264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 22
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 161

1612928-003

Client Sample ID: E1-8'

Collection Date: 12/14/2016 10:10:00 AM

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	MRA
Chloride	3300	150	mg/Kg	100 12/21/2016 3:18:36 PM	29304
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANIC	S		Analyst	TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1 12/22/2016 3:13:37 PM	29270
Surr: DNOP	108	70-130	%Rec	1 12/22/2016 3:13:37 PM	29270
EPA METHOD 8015D: GASOLINE I	RANGE			Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1 12/21/2016 10:48:14 AM	A 29264
Surr: BFB	89.8	68.3-144	%Rec	1 12/21/2016 10:48:14 AM	A 29264
EPA METHOD 8021B: VOLATILES				Analyst	NSB
Benzene	ND	0.025	mg/Kg	1 12/21/2016 10:48:14 AM	A 29264
Toluene	ND	0.049	mg/Kg	1 12/21/2016 10:48:14 AM	d 29264
Ethylbenzene	ND	0.049	mg/Kg	1 12/21/2016 10:48:14 A	
Xylenes, Total	ND	0.098	mg/Kg	1 12/21/2016 10:48:14 Al	N 29264
Surr: 4-Bromofluorobenzene	96.9	80-120	%Rec	1 12/21/2016 10:48:14 Af	vi 29264

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ID Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1612928-004

Client Sample ID: E1-9.5'

Collection Date: 12/14/2016 10:20:00 AM

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	: MRA
Chloride	4600	150	mg/Kg	100 12/21/2016 3:31:01 PM	29304
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANIC	S		Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1 12/22/2016 4:02:09 PM	29270
Surr: DNOP	93.8	70-130	%Rec	1 12/22/2016 4:02:09 PM	29270
EPA METHOD 8015D: GASOLINE F	RANGE			Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 12/21/2016 11:11:54 A	M 29264
Surr: BFB	90.6	68.3-144	%Rec	1 12/21/2016 11:11:54 A	M 29264
EPA METHOD 8021B: VOLATILES				Analys	: NSB
Benzene	ND	0.024	mg/Kg	1 12/21/2016 11:11:54 A	M 29264
Toluene	ND	0.048	mg/Kg	1 12/21/2016 11:11:54 A	M 29264
Ethylbenzene	ND	0.048	mg/Kg	1 12/21/2016 11:11:54 A	M 29264
Xylenes, Total	ND	0.096	mg/Kg	1 12/21/2016 11:11:54 A	M 29264
Surr: 4-Bromofluorobenzene	98.5	80-120	%Rec	1 12/21/2016 11:11:54 A	M 29264

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 4 of 22
- Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1612928-005

Client Sample ID: E2-4'

Matrix: SOIL

Collection Date: 12/14/2016 10:25:00 AM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: MRA
Chloride	2400	75	mg/Kg	50	12/21/2016 3:43:26	PM 29317
		2			Anal	yst: TOM
EPA METHOD 8015M/D: DIESEL RA			mall/a	1	12/22/2016 4:25:24	PM 2927
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	•	12/22/2016 4:25:24	
Surr: DNOP	93.6	70-130	%Rec	1		
EPA METHOD 8015D: GASOLINE R	ANGE				Anai	yst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2016 11:35:26	6 AM 2926
Surr: BFB	90.2	68.3-144	%Rec	1	12/21/2016 11:35:26	SAM 2926
	• • • •				Anal	yst: NSE
EPA METHOD 8021B: VOLATILES					12/21/2016 11:35:26	•
Benzene	ND	0.024	mg/Kg	1		
Toluene	ND	0.048	mg/Kg	1	12/21/2016 11:35:26	
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2016 11:35:26	
	ND	0.097	mg/Kg	1	12/21/2016 11:35:20	3 AM 2926
Xylenes, Total Surr: 4-Bromofluorobenzene	97.5	80-120	%Rec	1	12/21/2016 11:35:20	3 AM 2926

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OGD: 8/30/2022 The Total Say M

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Analytical Report Lab Order 1612928

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID:

1612928-006

Matrix: SOIL

Client Sample ID: E2-6'

Collection Date: 12/14/2016 10:30:00 AM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	t: MRA
Chloride	4900	300	mg/Kg	200 12/21/2016 3:55:50 PM	A 29317
EPA METHOD 8015M/D: DIESEL R	Analys	t: TOM			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 12/22/2016 4:48:44 PM	1 29270
Surr: DNOP	96.2	70-130	%Rec	1 12/22/2016 4:48:44 PM	1 29270
EPA METHOD 8015D: GASOLINE I	RANGE			Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 12/21/2016 11:59:02 A	M 2926
Surr: BFB	91.5	68.3-144	%Rec	1 12/21/2016 11:59:02 A	M 2926
EPA METHOD 8021B: VOLATILES				Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1 12/21/2016 11:59:02 A	M 2926
Toluene	ND	0.048	mg/Kg	1 12/21/2016 11:59:02 A	M 2926
Ethylbenzene	ND	0.048	mg/Kg	1 12/21/2016 11:59:02 A	M 2926
Xylenes, Total	ND	0.096	mg/Kg	1 12/21/2016 11:59:02 A	
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1 12/21/2016 11:59:02 A	M 2926

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Analytical Report Lab Order 1612928

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System

Lab ID: 1612928-007

Project:

Client Sample ID: E2-8'

Collection Date: 12/14/2016 10:40:00 AM

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	3300	150	mg/Kg	100 12/21/2016 4:33:04	PM 29317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9,8	mg/Kg	1 12/22/2016 5:11:56	PM 2927
Sur: DNOP	97.4	70-130	%Rec	1 12/22/2016 5:11:56	PM 2927
EPA METHOD 8015D: GASOLINE RANGE			Anal	yst: NSE	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1 12/21/2016 7:25:26	PM 2926
Surr: BFB	92.3	68.3-144	%Rec	1 12/21/2016 7:25:26	PM 2926
EPA METHOD 8021B: VOLATILES				Anal	yst: NSB
Benzene	ND	0.024	mg/Kg	1 12/21/2016 7:25:26	PM 2926
Toluene	ND	0.047	mg/Kg	1 12/21/2016 7:25:26	
Ethylbenzene	ND	0.047	mg/Kg	1 12/21/2016 7:25:26	
Xylenes, Total	ND	0.095	mg/Kg	1 12/21/2016 7:25:26	
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1 12/21/2016 7:25:26	PM 2926

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 11/2/2022 1:53:01 PM

Received by OGD: 8/30/2022 [1:14:03 XIN

Analytical Report Lab Order 1612928

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Lab ID: 1612928-008

Project:

Tenneco SWD System

Client Sample ID: E2-9.5'

Collection Date: 12/14/2016 10:48:00 AM Received Date: 12/16/2016 9:05:00 AM

Batch DF Date Analyzed PQL Qual Units Result Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** 100 12/21/2016 4:45:28 PM 29317 150 mg/Kg Chloride Analyst: TOM EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 12/22/2016 5:35:16 PM 29270 mg/Kg 9.6 Diesel Range Organics (DRO) 12/22/2016 5:35:16 PM 29270 %Rec 70-130 86.6 Surr: DNOP Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 12/21/2016 7:48:56 PM 29264 4.8 mg/Kg ND

Matrix: SOIL

Gasoline Range Organics (GRO) 12/21/2016 7:48:56 PM 29264 68.3-144 %Rec 91.6 Surr: BFB Analyst: NSB **EPA METHOD 8021B: VOLATILES** 12/21/2016 7:48:56 PM 29264 mg/Kg ND 0.024 Benzene 12/21/2016 7:48:56 PM 29264 0.048 mg/Kg ND Toluene 12/21/2016 7:48:56 PM 29264 mg/Kg 0.048 ND Ethylbenzene 12/21/2016 7:48:56 PM 29264 mg/Kg 0.096 ND Xylenes, Total 12/21/2016 7:48:56 PM 29264 %Rec 102 80-120 Surr: 4-Bromofluorobenzene

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System Project:

Lab ID: 1612928-009 Client Sample ID: E3-4'

Collection Date: 12/14/2016 10:59:00 AM

Received Date: 12/16/2016 9:05:00 AM

LAD ID: 1012320-003	112401777.					
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch	
TO METUOD 200 OF ANIONS				Analyst	: MRA	
EPA METHOD 300.0: ANIONS	2000	75	mg/Kg	50 12/21/2016 4:57:53 PM	29317	
Chloride			mgmg	Analys	TOM	
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	3		•		
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1 12/22/2016 5:58:22 PM		
Surr: DNOP	90.9	70-130	%Rec	1 12/22/2016 5:58:22 PN	29270	
	ANGE			Analys	: NSB	
EPA METHOD 8015D: GASOLINE F		4.8	mg/Kg	1 12/21/2016 8:12:24 PN	1 29264	
Gasoline Range Organics (GRO)	ND	4.0 68.3-144	%Rec	1 12/21/2016 8:12:24 PN		
Surr: BFB	90.4	00.3-144	701100	,		
EPA METHOD 8021B: VOLATILES				Analys		
Benzene	ND	0.024	mg/Kg	1 12/21/2016 8:12:24 PM		
Toluene	ND	0.048	mg/Kg	1 12/21/2016 8:12:24 PM		
Ethylbenzene	ND	0.048	mg/Kg	1 12/21/2016 8:12:24 PM		
Xylenes, Total	ND	0.095	mg/Kg	1 12/21/2016 8:12:24 PM		
Surr: 4-Bromofluorobenzene	99.3	80-120	%Rec	1 12/21/2016 8:12:24 PM	A 29264	

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 9 of 22 J
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Received by OCD: 8/30/2022 11:14:03 1/1

Analytical Report Lab Order 1612928

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1612928-010

Matrix: SOIL

Client Sample ID: E3-6'

Collection Date: 12/14/2016 11:03:00 AM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
				Analyst:	MRA
EPA METHOD 300.0: ANIONS		450	malka	100 12/21/2016 5:10:17 PM	29317
Chloride	3000	150	mg/Kg		
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3		Analyst:	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 12/22/2016 6:21:37 PM	29270
Surr: DNOP	90.4	70-130	%Rec	1 12/22/2016 6:21:37 PM	2927
	ANGE			Analyst	NSB
EPA METHOD 8015D: GASOLINE R		4.0	mg/Kg	1 12/21/2016 8:35:43 PM	2926
Gasoline Range Organics (GRO)	ND	4.8	• •	1 12/21/2016 8:35:43 PM	
Surr: BFB	89.8	68.3-144	%Rec	• •=	
EPA METHOD 8021B: VOLATILES				Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1 12/21/2016 8:35:43 PM	2926
	ND	0.048	mg/Kg	1 12/21/2016 8:35:43 PM	2926
Toluene	ND	0.048	mg/Kg	1 12/21/2016 8:35:43 PM	2926
Ethylbenzene	ND	0.096	mg/Kg	1 12/21/2016 8:35:43 PM	2926
Xylenes, Total Surr: 4-Bromofluorobenzene	96.8	80-120	%Rec	1 12/21/2016 8:35:43 PM	2926

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System Project:

1612928-011 Lab ID:

Client Sample ID: E3-8'

Matrix: SOIL

Collection Date: 12/14/2016 11:09:00 AM Received Date: 12/16/2016 9:05:00 AM

	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
Analyses	Resure	- -			Angly	-4: KADA
EPA METHOD 300.0: ANIONS						st: MRA
Chloride	4600	150	mg/Kg	100	12/21/2016 5:22:41 P	M 29317
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS	3			Analy	st: TOM
	ND	9.4	mg/Kg	1	12/22/2016 6:44:49 P	M 29270
Diesel Range Organics (DRO)	91.3	70-130	%Rec	1	12/22/2016 6:44:49 P	M 2927
Surr: DNOP		70 100			Analy	st: NSB
EPA METHOD 8015D: GASOLINE I	RANGE				12/21/2016 8:59:11 P	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1		
Surr: BFB	87.9	68.3-144	%Rec	1	12/21/2016 8:59:11 P	
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
	ND	0.025	mg/Kg	1	12/21/2016 8:59:11 P	M 2926
Benzene	ND	0.050	mg/Kg	1	12/21/2016 8:59:11 P	M 2926
Toluene	ND	0.050	mg/Kg	1	12/21/2016 8:59:11 F	M 2926
Ethylbenzene	ND	0.10	mg/Kg	1	12/21/2016 8:59:11 F	M 2926
Xylenes, Total	95.6	80-120	%Rec	1	12/21/2016 8:59:11 F	M 2926
Surr: 4-Bromofluorobenzene	95.6	00-120	701 (CO	•		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OCD: 8/30/2022 Hirt 4:03 MW

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range duc to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 11 of 22 J
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1

1612928-012

Matrix: SOIL

Client Sample ID: E3-10'

Collection Date: 12/14/2016 11:14:00 AM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	4100	300	mg/Kg	200	12/21/2016 5:35:06 P	M 29317
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	S			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9,9	mg/Kg	1	12/22/2016 7:07:57 P	M 29270
Surr: DNOP	81.0	70-130	%Rec	1	12/22/2016 7:07:57 P	M 29270
EPA METHOD 8015D: GASOLINE RA	ANGF				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/21/2016 9:22:44 P	M 29264
Surr: BFB	89.0	68.3-144	%Rec	1	12/21/2016 9:22:44 P	M 29264
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.025	mg/Kg	1	12/21/2016 9:22:44 P	M 29264
Toluene	ND	0.050	mg/Kg	1	12/21/2016 9:22:44 P	M 29264
Ethylbenzene	ND	0.050	mg/Kg	1	12/21/2016 9:22:44 P	M 29264
Xylenes, Total	ND	0.10	mg/Kg	1	12/21/2016 9:22:44 P	M 29264
Surr: 4-Bromofluorobenzene	96.7	80-120	%Rec	1	12/21/2016 9:22:44 F	M 29264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System Project:

1612928-013 Lab ID:

Matrix: SOIL

Client Sample ID: E3-12'

Collection Date: 12/14/2016 11:20:00 AM Received Date: 12/16/2016 9:05:00 AM

Rotch

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Baten
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	3700	300	mg/Kg	200	12/21/2016 5:47:30 PM	29317
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/22/2016 7:30:56 PM	29270
Surr: DNOP	89.1	70-130	%Rec	1	12/22/2016 7:30:56 PM	29270
EPA METHOD 8015D: GASOLINE	RANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2016 9:46:15 PM	29264
Surr: BFB	90.0	68.3-144	%Rec	1	12/21/2016 9;46:15 PM	29264
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0,024	mg/Kg	1	12/21/2016 9:46:15 PM	29264
Toluene	ND	0.048	mg/Kg	1	12/21/2016 9:46:15 PM	29264
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2016 9:46:15 PM	29264
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2016 9:46:15 PN	
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	12/21/2016 9:46:15 PM	1 29264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 13 of 22

Released to Imaging: 11/2/2022 1:53:01 PM

- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1612928-014

Client Sample ID: E4-1'

Matrix: SOIL

Collection Date: 12/14/2016 11:24:00 AM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: MRA
Chloride	ND	30	mg/Kg	20	12/21/2016 12:42:48	3 AM 29317
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	}			Anai	yst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/22/2016 7:54:11	PM 29270
Surr: DNOP	103	70-130	%Rec	1	12/22/2016 7:54:11	PM 29270
EPA METHOD 8015D: GASOLINE R.	ANGE				Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2016 10:09:4	6 PM 29264
Surr: BFB	89.8	68.3-144	%Rec	1	12/21/2016 10:09:4	6 PM 29264
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/21/2016 10:09:4	6 PM 29264
Toluene	ND	0.048	mg/Kg	1	12/21/2016 10:09:4	6 PM 29264
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2016 10:09:4	6 PM 29264
Xylenes, Total	ИD	0.096	mg/Kg	1	12/21/2016 10:09:4	
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	12/21/2016 10:09:4	6 PM 29264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1612928-015

Client Sample ID: E4-2'

Collection Date: 12/14/2016 11:25:00 AM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	12/21/2016 12:55:12 A	M 29317
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS	8			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9,8	mg/Kg	1	12/22/2016 8:17:18 Pt	vi 29270
Surr: DNOP	89.3	70-130	%Rec	1	12/22/2016 8:17:18 PI	M 29270
EPA METHOD 8015D: GASOLINE	RANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/21/2016 10:33:17 F	PM 29264
Surr: BFB	90.1	68.3-144	%Rec	1	12/21/2016 10:33:17 F	PM 29264
EPA METHOD 8021B; VOLATILES					Analys	st: NSB
Benzene	ND	0,023	mg/Kg	1	12/21/2016 10:33:17 F	PM 29264
Toluene	ND	0.047	mg/Kg	1	12/21/2016 10:33:17 5	PM 29264
Ethylbenzene	ND	0.047	mg/Kg	1	12/21/2016 10:33:17	PM 29264
Xylenes, Total	ND	0.094	mg/Kg	1	12/21/2016 10:33:17	PM 29264
Surr: 4-Bromofluorobenzene	97.9	80-120	%Rec	1	12/21/2016 10:33:17	PM 29264

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 15 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1612928

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1612

1612928-016

Client Sample ID: E4-3'

Collection Date: 12/14/2016 11:26:00 AM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	ND	30	mg/Kg	20 12/21/2016 1:07:37 AM 29317
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3		Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1 12/22/2016 8:40:29 PM 29270
Surr: DNOP	104	70-130	%Rec	1 12/22/2016 8:40:29 PM 29270
EPA METHOD 8015D: GASOLINE RA	NGE			Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 12/21/2016 10:56:46 PM 29264
Surr: BFB	90.4	68.3-144	%Rec	1 12/21/2016 10:56:46 PM 29264
EPA METHOD 8021B: VOLATILES				Analyst: NSB
Benzene	ND	0.024	mg/Kg	1 12/21/2016 10:56:46 PM 29264
Toluene	ND	0.048	mg/Kg	1 12/21/2016 10:56:46 PM 29264
Ethylbenzene	ND	0.048	mg/Kg	1 12/21/2016 10:56:46 PM 29264
Xylenes, Total	ND	0.097	mg/Kg	1 12/21/2016 10:56:46 PM 29264
Surr: 4-Bromofluorobenzene	98.9	80-120	%Rec	1 12/21/2016 10:56:46 PM 29264

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 16 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System

Lab ID: 1612928-017

Project:

Client Sample ID: E4-4'

Collection Date: 12/14/2016 11:28:00 AM

Received Date: 12/16/2016 9:05:00 AM

LAD ID: 1012720-017						
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: MRA
	ND	30	mg/Kg	20	12/21/2016 1:20:01	AM 29317
Chloride		•			Analy	/st: TOM
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	5			•	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/22/2016 9:03:38 F	
Surr: DNOP	87.9	70-130	%Rec	1	12/22/2016 9:03:38 F	PM 29270
,	ANCE				Anal	yst: NSB
EPA METHOD 8015D: GASOLINE F				1	12/22/2016 12:30:33	AM 29264
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg		12/22/2016 12:30:33	
Surr: BFB	92.0	68.3-144	%Rec	1		
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
	ND	0.024	mg/Kg	1	12/22/2016 12:30:33	AM 29264
Benzene	ND	0.049	mg/Kg	1	12/22/2016 12:30:33	AM 29264
Toluene	ND	0.049	mg/Kg	1	12/22/2016 12:30:33	AM 29264
Ethylbenzene	ND	0.097	mg/Kg	1	12/22/2016 12:30:33	AM 29264
Xylenes, Total	,		%Rec	1	12/22/2016 12:30:33	
Surr: 4-Bromofluorobenzene	99.2	80-120	/01/CC	•		

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OCD: 8/30/2022 11:14:03:1/W

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits Page 17 of 22
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Lab ID: 1612928-018

Tenneco SWD System

Matrix: SOIL

Client Sample ID: E4-5.25'

Collection Date: 12/14/2016 11:40:00 AM Received Date: 12/16/2016 9:05:00 AM

Lab ID. 1012/20 010		DOI O	al Tinita	DF Date Analyzed	Batch
Analyses	Result	PQL Qu	INI UNIS	Di Date Allalyzed	
EPA METHOD 300.0: ANIONS				Analyst:	MRA
Chloride	ND	30	mg/Kg	20 12/21/2016 1:32:26 AM	29317
EPA METHOD 8015M/D: DIESEL R/	ANGE ORGANICS	3		Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1 12/22/2016 9:26:51 PM	29270
Surr: DNOP	83.6	70-130	%Rec	1 12/22/2016 9:26:51 PM	29270
EPA METHOD 8015D: GASOLINE F	RANGE			Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1 12/22/2016 12:54:00 AM	29264
Surr: BFB	90.4	68.3-144	%Rec	1 12/22/2016 12:54:00 AM	29264
EPA METHOD 8021B: VOLATILES				Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1 12/22/2016 12:54:00 AM	29264
Toluene	ND	0.049	mg/Kg	1 12/22/2016 12:54:00 AM	
Ethylbenzene	ND	0.049	mg/Kg	1 12/22/2016 12:54:00 AM	
Xylenes, Total	ND	0.098	mg/Kg	1 12/22/2016 12:54:00 AM	
Surr: 4-Bromofluorobenzene	98.1	80-120	%Rec	1 12/22/2016 12:54:00 AM	29264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
 - RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits page 18 of 22
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612928

27-Dec-16

Client:

EOG Resources

Project:

Tenneco SWD System

Sample ID MB-29304

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 29304

PQL

1.5

RunNo: 39553

Prep Date: 12/20/2016

Analysis Date: 12/20/2016

Result

ND

SeqNo: 1238673

Units: mg/Kg HighLimit

RPDLimit %RPD

Qual

Analyte Chloride

SampType: mblk

TestCode: EPA Method 300.0: Anions

Sample ID MB-29317

PBS

Prep Date: 12/20/2016

Batch ID: 29317

RunNo: 39558

Units: mg/Kg

RPDLimit

Analyte Chloride

Client ID:

Result ND

Analysis Date: 12/20/2016 **PQL**

SeqNo: 1238865 SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Qual

Sample ID LCS-29317

Client ID: LCSS

SampType: Ics Batch ID: 29317

1.5

TestCode: EPA Method 300.0: Anlons

RunNo: 39558

Units: mg/Kg

Analyte

Prep Date: 12/20/2016

Analysis Date: 12/20/2016

Result

14

SeqNo: 1238866

%REC LowLimit

HighLimit

RPDLimit Qual %RPD

Chloride

PQL 1.5

15.00

SPK value SPK Ref Val

94.3

90

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

RPD outside accepted recovery limits R % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

 \mathbf{E} Value above quantitation range

Analyte detected below quantitation limits

Page 19 of 22

Sample pH Not In Range P

Reporting Detection Limit Sample container temperature is out of limit as specified

Received by OCD: 8/30/2022 11:14:03 AM

Н

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612928

27-Dec-16

Client:

EOG Resources

Project:

Tenneco SWD System

Client ID:

Sample ID MB-29270

SampType: MBLK

TestCode: EPA Method 8016M/D: Diesel Range Organics

Batch ID: 29270

RunNo: 39590

Analysis Date: 12/22/2016

PQL

SeqNo: 1240365

Units: mg/Kg

Result Analyte

ND 10 SPK value SPK Ref Val %REC LowLimit

HighLimit

Qual %RPD **RPDLimit**

Diesel Range Organics (DRO) Surr: DNOP

Prep Date: 12/19/2016

PBS

8.7

10.00

86.6

TestCode: EPA Method 8016M/D: Diesel Range Organics

130

Sample ID LCS-29270

Client ID: LCSS

SampType: LCS Batch ID: 29270

RunNo: 39590

70

Prep Date: 12/19/2016

Analysis Date: 12/22/2016

SeqNo: 1240399

Units: mg/Kg

130

Analyte

PQL Result

SPK value SPK Ref Val %REC

LowLimit 63.8 70

%RPD **RPDLimit** HighLimit 116

85.4 Diesel Range Organics (DRO) 50.00 43 10 77.0 5.000 3.8 Surr: DNOP

Qualifiers:

Received by OCD: 8/30/2022 11:14:03 ATM

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Е Value above quantitation range

Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit RLSample container temperature is out of limit as specified

Page 20 of 22

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

890

WO#: 1612928

RPDLimit

%RPD

144

27-Dec-16

Qual

EOG Resources

Client: Project:

Sun: BFB

Tenneco SWD System

TestCode: EPA Method 8015D: Gasoline Range SampType: MBLK Sample ID MB-29264 RunNo: 39561 Batch ID: 29264 PBS Client ID: Units: mg/Kg SeqNo: 1239411 Analysis Date: 12/21/2016 Prep Date: 12/19/2016 HighLimit SPK value SPK Ref Val %REC LowLimit PQL Result Analyte 5.0 ND Gasoline Range Organics (GRO)

1000

TestCode: EPA Method 8015D: Gasoline Range SampType: LCS Sample ID LCS-29264 RunNo: 39561 Batch ID: 29264 Client ID: LCSS Units: mg/Kg SeqNo: 1239412 Analysis Date: 12/21/2016 Prep Date: 12/19/2016 %RPD **RPDLimit** HighLimit SPK value SPK Ref Val %REC LowLimit Result PQL Analyte 123 74.6 106 5.0 25.00 27 Gasoline Range Organics (GRO) 144 68.3 97.8 1000 980 Sun: BFB

88.7

68.3

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range E
- Analyte detected below quantitation limits

Page 21 of 22

Released to Imaging: 11/2/2022 1:53:01 PM

- Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612928 27-Dec-16

Client:

EOG Resources

Project:

Tenneco SWD System

Sample ID MB-29264 Client ID: PBS Prep Date: 12/19/2016	•	1D: 29 :	ID: 29264		TestCode: EPA Method RunNo: 39561 SeqNo: 1239454		I 8021B: Volatiles Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1,000		97.5	80	120			

Sample ID LCS-29264	SampT	ype: LC	S	TestCode: EPA Method			8021B: Volatiles				
Client ID: LCSS	Batch	iD: 29 :	264	RunNo: 39561							
Prep Date: 12/19/2016	Analysis D	ate: 12	2/21/2016	SeqNo: 1239455 Units: mg/			∵g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	108	75.2	115				
Toluene	1.0	0.050	1.000	0	101	80.7	112	•			
Ethylbenzene	1.0	0.050	1.000	0	99.6	78.9	117				
Xylenes, Total	3.0	0.10	3.000	0	100	79.2	115				
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В
- Value above quantitation range E
- Analyte detected below quantitation limits
- Sample pH Not In Range P
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

Page 22 of 22



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

LABORATORY	Website: \\v\v\v\.ha			
Client Name: EOG/Yates	Work Order Number:	1612928		RcptNo: 1
<i>\</i>	اعالقالاه			
Received by/date:	12/16/2016 9:05:00 AM		A	
Logged By: Ashley Gällegos			4	
Completed By: Ashley Gallegos	12/16/2016 2:57:13 PM	n	340	
Reviewed By:	12/19/16			and the second s
Chain of Custody ()		F.**3	No [.]	Not Present (4)
1. Custody seals intact on sample bottles?		Yes []	No □	Not Present []
2. Is Chain of Custody complete?		Yes 🗹	NO L	HOLI Joseff F. 11
3. How was the sample delivered?		Courier		
<u>Log In</u>		1773	v. [7]	na (I)
4. Was an attempt made to cool the sample	es?	Yes 🔽	No 🗔	NA CJ
5. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No []	NA 1. 1
6. Sample(s) In proper container(s)?		Yes 😧	No []	
7. Sufficient sample volume for indicated to	nat(s)?	Yes 🗹	No Lil	
Sumicient sample volume for indicates to Resumples (except VOA and ONG) pro		Yes 🖳	No []	
9. Was preservative added to bottles?	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Yes ["]	No 🕍	NA []
9. Was preservative added to somes.			[1]	v voa viete hij
10.VOA vials have zero headspace?		Yes 🗀	No ∐	No VOA Vials
11. Were any sample containers received b	roken?	Yes []	No 🗹	# of preserved bottles checked
12.Does paperwork match bottle labels?		Yes 🗹	No 🗀	for pH: (<2 or >12 unless not
(Note discrepancies on chain of custody)	(52)	No []	Adjusted?
13. Are matrices correctly identified on Cha	in of Custody?	Yes 🗹 Yes 🗹	No [• •
14. Is it clear what analyses were requested	17	Yes 🔀	No []	Checked by:
15. Were all holding times able to be met? (If no, notify customer for authorization.))	100 15.1		
Special Handling (if applicable)				
16. Was client notified of all discrepancies	with this order?	Yes []	No [.]	NA 🕍
- NAME AND ADDRESS OF THE PARTY	Date	-	CONTRACTOR MICHIGAN	1 mater 11 de autorité
Person Notified:	Via:	7	Phone [] Fax	in Person
By Whom:	THE RESIDENCE OF THE PROPERTY OF THE PERSON		I SERVICE OF THE PARTY OF THE P	And the last term of th
Regarding: Client Instructions:	THE RESERVE THE PROPERTY OF THE PERSON OF TH	- CALLEST PROPERTY IN THE SECOND SECO	HISTORY WEST	ALL MAN TO COMPANY AND ADDRESS OF THE PARTY AN
1			* **	
17. Additional remarks:				
18. Cooler Information	Localiniani Localita	Seal Date	Signed By	1
Cooler No Temp °C Condition	Seal Intact Seal No	. OBBILDAR	Cignos Dy	1

င်	lain-	of-Cu	Chain-of-Custody Record	urn-Around 1me:	me:				<u>.</u>	M	<u>щ</u>	2	HALL ENVIRONMENTAL	Z	ME	Ę	H	
Ment EOG Resources	OG Re	sources		X Standard	□ Rush				4	Ž	7	SIS	ANALYSIS LABORATORY	BO	Ā	6	Ž	
				Project Name:						www.	haller	vironn	www.hallenvironmental.com	E 03				
falling Address:	ddress:				Tenneco SWD System	System		4901	黎	ins N	∀ - ⊔	anbng	4901 Hawkins NE - Albuquerque, NM 87109	NN NN NN	7109			
05 South	h 4th St	reet Arte	05 South 4th Street Artesia, NM 88210	Project #:				Tel. 505-345-3975	05-3	5-39	75	Fax	Fax 505-345-4107	541(77			
hone #.		575-703-6537	6537								Ana	Analysis	Request	St				
mail or Fax#:	ax#.	chase se	Deogresources.com	Project Manager.	er:							([†] O:	8					
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J Standard	ard		☐ Level 4 (Full Validation)		PO#205.0750	50)d _{(s}	d 7					
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J EDD (Type)	Type)			Sample Temp	Temperature: 3.	V ?				pol								() E
Date	Тіте	Майх	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. HEAL NO.	BTEX + M	M + X3T8 orthem H9Th	rtieM) H9T	EDB (Meth	AN9) 0168	RCRA 8 M	iso9 1808	0V) 80828 me8) 0728				elddu8 1 A
12114ZD16 9:57A	3:57A	Soil	E14' .	1 - 402	10E	100-	×	×	_			×		\dashv		7	-	
1274/2016	10:02A		E1-6'	1 - 402	띵	E00-	×	<u>×</u>			1	×		-	\Box	7	\dashv	
12714/2016	10:10A		E1-8'	1 - 402.	띬	-003	×	×				×				\dashv	+	
12M4ZO16	10:20A Soil	Soll	E1-9.5	1 - 40z.	ICE	<u> </u>	×	×	_			×		\dashv	\Box	\exists		1
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12714/2018	TZ74Z016 10:30A Soil		E2-6'	1 - 40z.	ICE	900-	×	×			\dashv	×	_				\dashv	\Box
1274/2018	10:40A	Soil	E2-8'	1 - 402.	CE	L00-	×	×	_		-	×.		\dashv	4	\top	\perp	
12/14/2018	10:48A Soil	Soil	E2-9.5	1 - 4oz.	SE	800-	×	×			\neg	×		\dashv	_		\dashv	
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				Project Name:					5	ww.ħ	llenv	ronme	www.hallenvironmental.com	E				
failing Address:	ess:			- 1	Tenneco SWD System	System ·	•	4901 Hawkins NE - Albuquerque, NM 87109	lawkin	s NE	₽	uanbr	que, N	M 87	109			
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J EDD (Ty	<u>B</u>			Sample Temperature: 15	erature: 15 c) se
Date Ti		Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	M + X3T8	BTEX + M	tieM) H9T	EDB (Met	8310 (PNF RCRA 8 N	,키) anoinA	lee9 1808 OV) 808S8	na2) 0728				Air Bubble
12742016 11:20A		Soil	E3-12'	1 - 40Z.	SE	-013	×	×		-	_	×				\dashv	\dashv	
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11:25A		Soil	E4-2'	1 - 402	ICE	-01S	×	×				×				\dashv	\dashv	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 29, 2016

Chase Settle
EOG Resources
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

FAX

RE: Tenneco SWD System

OrderNo.: 1612933

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/16/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System

Lab ID: 1612933-001

Project:

Matrix: SOIL

Client Sample ID: WB1-1'

Collection Date: 12/14/2016 12:46:00 PM

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batcl
				Analyst:	LGT
EPA METHOD 300.0: ANIONS	0000	75	mg/Kg	50 12/27/2016 5:26:28 PM	2933
Chloride	2000	75	mgmg	Analyst:	
EPA METHOD 8015D MOD: GASOL	INE RANGE			•	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1 12/20/2010 111 11 10 1 111	2927
Surr: BFB	89.5	70-130	%Rec	1 12/20/2016 7:44:45 PM	2927
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;		Analyst:	TON
	ND	10	mg/Kg	1 12/21/2016 10:19:56 PM	2928
Diesel Range Organics (DRO)	96.8	70-130	%Rec	1 12/21/2016 10:19:56 PM	2928
Surr: DNOP		70 100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Analyst:	ΔG
EPA METHOD 8260B: VOLATILES	SHORT LIST			•	2927
Benzene	ND	0.025	mg/Kg	1 12/20/2016 7:44:45 PM	
Toluene	ND	0.049	mg/Kg	1 12/20/2010 / 14/1/10 / 1/1	
Ethylbenzene	ND	0.049	mg/Kg	1 IZIZOIZOTO TITTITO I III	
Xylenes, Total	ND	0.099	mg/Kg	1 12/20/2016 7:44:45 PM	
Surr: 1,2-Dichloroethane-d4	98.0	70-130	%Rec	1 12/20/2016 7:44:45 PM	
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1 12/20/2016 7:44:45 PM	
Surr: Dibromofluoromethane	106	70-130	%Rec	1 12/20/2016 7:44:45 PM	
Surr: Toluene-d8	102	70-130	%Rec	1 12/20/2016 7:44:45 PM	292

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OCD: 8/30/2022 11:14:05 XIM

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System

Project: Lab ID:

1612933-002

Client S

Client Sample ID: WB2-1'

Collection Date: 12/14/2016 12:49:00 PM

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: MRA
Chloride	5100	150	mg/Kg	100	12/28/2016 11:39:30	AM 29334
EPA METHOD 8015D MOD: GASOL	INE RANGE				Anal	/st: AG
Gasoline Range Organics (GRO)	ND	4,7	mg/Kg	1	12/20/2016 8:13:17	PM 29278
Surr: BFB	86.4	70-130	%Rec	1	12/20/2016 8:13:17 I	PM 29278
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	;			Anal	/st: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	12/21/2016 10:43:15	PM 2928
Surr: DNOP	111	70-130	%Rec	1	12/21/2016 10:43:15	PM 2928
EPA METHOD 8260B: VOLATILES	SHORT LIST				Anal	yst: AG
Benzene	ND	0.024	mg/Kg	1	12/20/2016 8:13:17	PM 2927
Toluene	ND	0.047	mg/Kg	1	12/20/2016 8:13:17	PM 2927
Ethylbenzene	ND	0.047	mg/Kg	1	12/20/2016 8:13:17	PM 2927
Xylenes, Total	ND	0.094	mg/Kg	1	12/20/2016 8:13:17	
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	12/20/2016 8:13:17	
Surr: 4-Bromofluorobenzene	86.3	70-130	%Rec	1	12/20/2016 8:13:17	
Surr: Dibromofluoromethane	109	70-130	%Rec	1	12/20/2016 8:13:17	
Surr: Toluene-d8	101	70-130	%Rec	1	12/20/2016 8:13:17	PM 2927

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System

Project: Lab ID:

1612933-003

Client Sample ID: WB3-1'

Collection Date: 12/14/2016 12:51:00 PM

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	3500	150	mg/Kg	100	12/28/2016 11:51:53	AM 29334
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analy	st: AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	. 1	12/20/2016 8:41:48 F	PM 29278
Surr: BFB	88.4	70-130	%Rec	1	12/20/2016 8:41:48 F	PM 29278
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	}			Analy	st: TOM
Diesel Range Organics (DRO)	11	9.8	mg/Kg	1	12/21/2016 11:06:23	PM 2928
Surr: DNOP	110	70-130	%Rec	1	12/21/2016 11:06:23	PM 2928
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analy	/st: AG
Benzene	ND	0.024	mg/Kg	1	12/20/2016 8:41:48 F	PM 2927
Toluene	ND	0.048	mg/Kg	1	12/20/2016 8:41:48	PM 2927
Ethylbenzene	ND	0.048	mg/Kg	1	12/20/2016 8:41:48	
Xylenes, Total	ND	0.097	mg/Kg	1	12/20/2016 8:41:48	
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	12/20/2016 8:41:48	
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	12/20/2016 8:41:48	
Surr: Dibromofluoromethane	109	70-130	%Rec	1	12/20/2016 8:41:48	
Surr: Toluene-d8	102	70-130	%Rec	1	12/20/2016 8:41:48	PM 2927

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 3 of 8 J
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System

Project: Lab ID:

1612933-004

Matrix: SOIL

Client Sample ID: WB4-1'

Collection Date: 12/14/2016 12:53:00 PM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	2200	75	mg/Kg	50	12/27/2016 6:03:41 P	M 29334
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analy	st: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/21/2016 2:51:35 A	M 29278
Surr: BFB	90.8	70-130	%Rec	1	12/21/2016 2:51:35 A	M 29278
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS				Analy	st: TOM
	ND	9.6	mg/Kg	1	12/21/2016 11:29:40	PM 29282
Diesel Range Organics (DRO) Surr: DNOP	108	70-130	%Rec	1	12/21/2016 11:29:40	PM 29282
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analy	/st: AG
	ND	0.024	mg/Kg	1	12/21/2016 2:51:35 A	AM 29278
Benzene	ND	0.047	mg/Kg	1	12/21/2016 2:51:35 A	AM 29278
Toluene Ethylbenzene	ND	0.047	mg/Kg	1	12/21/2016 2:51:35	AM 29278
Xylenes, Total	ND	0.094	mg/Kg	1	12/21/2016 2:51:35	
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	12/21/2016 2:51:35 /	AM 29278
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	12/21/2016 2:51:35	AM 29278
Surr: Dibromofluoromethane	104	70-130	%Rec	1	12/21/2016 2:51:35	
Surr: Toluene-d8	102	70-130	%Rec	1	12/21/2016 2:51:35 /	AM 29278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OGD: 8/30/2022 11:14:08 XIV

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

1612933 WO#:

29-Dec-16

Client:

EOG Resources

Project:

Tenneco SWD System

Sample ID MB-29334

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 29334

RunNo: 39630

Prep Date: 12/21/2016

1.5

SeqNo: 1241440

Units: mg/Kg

Analysis Date: 12/22/2016

Qual

Analyte Chloride

Result

SPK value SPK Ref Val **PQL**

%REC LowLimit

HighLimit

%RPD **RPDLImit**

Sample ID LCS-29334

SampType: Ics

ND

TeslCode: EPA Method 300.0: Anlons

Client ID: LCSS

Batch ID: 29334

RunNo: 39630

Units: mg/Kg

Prep Date: 12/21/2016

Analysis Date: 12/22/2016

SegNo: 1241441

LowLimit HighLimit

RPDLImit

Analyte

PQL 1.5

15.00

SPK value SPK Ref Val 0

%REC 92.9

90

%RPD

Qual

Chloride

14

110

Result

Qualifiers:

Received by OCD: 8/30/2022-11-14:09-11M

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R % Recovery outside of range due to dilution or matrix
- В
- Е
- Analyte detected below quantitation limits
- Sample pH Not In Range P
- Reporting Detection Limit RLSample container temperature is out of limit as specified

Analyte detected in the associated Method Blank Value above quantitation range

Page 5 of 8

EOG Resources

Sample ID LCS-29282

Diesel Range Organics (DRO)

Sample ID MB-29282

Client:

Project:

Analyte

Surr: DNOP

Tenneco SWD System

Result

53

5.4

Hall Environmental Analysis Laboratory, Inc.

Client ID: LCSS Prep Date: 12/19/2016

SampType: LCS Batch ID: 29282 Analysis Date: 12/21/2016

PQL

SampType: MBLK

10

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 39576

%REC

SeqNo: 1239546 Units: mg/Kg

HighLimit LowLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

63.8 116 50.00 107 107 70 130 5.000

Client ID: PBS Prep Date: 12/19/2016 **PQL** Result 10

OC SUMMARY REPORT

Batch ID: 29282 Analysis Date: 12/21/2016 RunNo: 39576 SeqNo: 1239547

%REC

Units: mg/Kg

RPDLimit Qual %RPD HighLimit

%RPD

WO#:

RPDLimit

1612933

29-Dec-16

Qual

Diesel Range Organics (DRO) Sun: DNOP

ND 11

10.00

SPK value SPK Ref Val

SPK value SPK Ref Val

110

LowLimit

70

130

Qualifiers:

Received by OCD: 8/30/2022 11:14:03 AIN

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Value above quantitation range E

Analyte detected below quantitation limits

Page 6 of 8

Sample pH Not In Range P

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0.48

0.49

0.53

0.52

WO#: 1612933

29-Dec-16

Client:

EOG Resources

Project:

Tenneco SWD System

							0000D- Vala	iles Chart	Liet	
Sample ID Ics-29278	SampT	ype: LC	S				8260B: Volat	110116 8011	Liol	
Client ID: LCSS	Batch	ı ID: 29 :	278	F	RunNo: 3	9538				
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	8	SeqNo: 1	238550	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	70	130			
Toluene	0.92	0.050	1.000	0	92.2	70	130			
Ethylbenzene	0.93	0.050	1.000	0	93.0	70	130			
Xylenes, Total	3.2	0.10	3.000	.0	108	70	130			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.8	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		109	70	130			
Surr: Toluene-d8	0.50		0.5000		99.6	70	130			
Sample ID mb-29278	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8260B: Vola	tiles Shor	t List	
Client ID: PBS	Batcl	h ID: 29	278	F	RunNo: 3	39538				
Prep Date: 12/19/2016	Analysis [Date: 1:	2/20/2016		SeqNo: '	1238551	Units: mg/l	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLlmit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10					400			
	0.40		0.5000		05.9	70	130			

0.5000

0.5000

0.5000

0.5000

Qualifiers:

Received by OCD: 8/30/2022 11:14:03 AM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- В
- Е
- Analyte detected below quantitation limits J
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

130

130

130

130

70

70

70

70

Value above quantitation range

95.8

97.9

105

103

Page 7 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612933

29-Dec-16

Client:

EOG Resources

Project:

Tenneco SWD System

Project: Temlect										
Sample ID Ics-29278	SampT	ype: LC	S	Test	Code: EF	A Method	8015D Mod:	Gasoline l	Range	
Client ID: LCSS	Batch	iD: 29	278	R	tunNo: 3!	9538				
Prep Date: 12/19/2016	Analysis D	ate: 12	/20/2016	S	eqNo: 1	238582	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.2	62.9	123			
Surr: BFB	450		500.0		89.1	70	130			
Sample ID mb-29278	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline i	Range	
•	•	ype: ME 1 ID: 29			tCode: El		8015D Mod:	Gasoline 1	Range	
Sample ID mb-29278 Client ID: PBS Prep Date: 12/19/2016	•	iD: 29	278	F		9538	8015D Mod: Units: mg/i		Range	
Client ID: PBS	Batch	iD: 29	278 2/20/2016	F	RunNo: 3	9538			Range RPDLimit	Qual
Client ID: PBS Prep Date: 12/19/2016	Batch Analysis D	n ID: 29	278 2/20/2016	F S	RunNo: 3 SeqNo: 1	9538 238585	Units: mg/l	√g		Qual

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Value above quantitation range E

Analyte detected below quantitation limits

Page 8 of 8

P Sample pH Not In Range

Reporting Detection Limit RLSample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

	Website: www.halle	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Cilent Name: EOG/Yates	Work Order Number:	18129	33			RcptNo: 1	
Received by/date:	12/16/10		-]
ogged By: Ashley Gallegos	12/16/2016 9:05:00 AM			A			
•	12/16/2018 3:13:17 PM			A			
10	12/19/16			- · · · ·			
Reviewed By:	1211110						,
Chain of Custody V		Yes	۲.1	No !	" "]	Not Present	
1. Custody seals intact on sample bottles?		Yes		No !		Not Present	
2. Is Chain of Custody complete?				,,,,	•		
3. How was the sample delivered?		Cour	āί.				
<u>Log In</u>					4*** 1	1.71	
4. Was an attempt made to cool the sample	s?	Yes		No	1]	NA I.]	
5. Were all samples received at a temperate	ure of >0° C to 6.0°C	Yes	V	No [ב	NA []]	
6. Sample(s) in proper container(s)?		Yas	V	No			
7. Sufficient sample volume for indicated tea	st(s)?	Yes		No			
8. Are samples (except VOA and ONG) pro		Yes	(V)	No			
9. Was preservative added to bottles?		Yes		No		NA [.]	
10.VOA vials have zero headspace?		Yes	1::]	No		No VOA Vials	
11. Were any sample containers received br	oken?	Yes		No	<u> </u>		
11. Veels any sample community received an	••••					# of preserved bottles checked	
12.Does paperwork match bottle labels?		Yes	1	No		for pH: (<2 or >1	2 unless noted
(Note discrepancies on chain of custody)		Yes	[]	No	ן בו	Adjusted?	
13. Are matrices correctly identified on Chair		Yes		No	1		
14, is it clear what analyses were requested? 15. Were all holding times able to be met?	•	Yes		No		Checked by:	
(If no, notify customer for authorization.)					ı		
Special Handling (if applicable)						M-173	
16. Was client notified of all discrepancies w	ith this order?	Yes		No		NA 🚧	
Person Notified:	Date	intertalism	enderlieten er	<u>Part da designero del tribligo i</u>	***************************************		
By Whom:	Via:	[<u>"</u>] eM	all [] Phone [Fax	[] In Person	
Regarding:					H 140147-777-78	Management of the sections.	
Client Instructions:							
17. Additional remarks:							
18. Cooler Information	, .			ن بما		1	
Cooler No Temp °C Condition	Seal Intact Seal No	Seal C	oto	Signed	BV .	1	

HALL ENVIRONMENTAL	ANALYSIS LABORATORY		Q1					(N	, OL	() se	əlddu8 1jA			+													Hearth and analysis and the smakkling Hearth
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Chain-of-Custody Record	rces			105 South 4th Street Artesia, NM	575-703-6537	chase settle@eogresources.com					Matrix		, ,		5	<u> </u>								Relinusished by:	M	Relinquished by:	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 28, 2016

Chase Settle
EOG Resources
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Tenneco SWD System

OrderNo.: 1612936

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 11 sample(s) on 12/16/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1612936

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: EB1-1'

Project:

Tenneco SWD System

Collection Date: 12/14/2016 12:11:00 PM

Lab ID:

1612936-001

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF D	ate Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20 1	2/22/2016 7:43:53 PM	29334
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 1	2/21/2016 3:20:01 AM	29278
Surr: BFB	88.4	70-130	%Rec	1 1	12/21/2016 3:20:01 AM	29278
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1 1	12/21/2016 11:52:52 PM	A 29282
Surr: DNOP	103	70-130	%Rec	1 1	12/21/2016 11:52:52 PM	A 29282
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	AG
Benzene	ND	0.024	mg/Kg	1 1	12/21/2016 3:20:01 AM	29278
Toluene	ND	0.048	mg/Kg	1 1	12/21/2016 3:20:01 AM	29278
Ethylbenzene	ND	0.048	mg/Kg	1 1	12/21/2016 3:20:01 AM	29278
Xylenes, Total	ND	0.096	mg/Kg	1 1	12/21/2016 3:20:01 AM	29278
Surr: 1,2-Dichloroethane-d4	98.2	70-130	%Rec	•	12/21/2016 3:20:01 AM	
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	•	12/21/2016 3:20:01 AM	
Surr: Dibromofluoromethane	105	70-130	%Rec		12/21/2016 3:20:01 AM	
Surr: Toluene-d8	102	70-130	%Rec	1 1	12/21/2016 3:20:01 AM	29278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project:

Lab ID: 1612936-002

Tenneco SWD System

Matrix: SOIL

Client Sample ID: EB1-5'

Collection Date: 12/14/2016 12:13:00 PM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batcl
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	ND	30	mg/Kg	20	12/22/2016 8:21:06 P	M 29334
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analys	st: AG
	ND	4.9	mg/Kg	1	12/21/2016 3:48:25 A	M 2927
Gasoline Range Organics (GRO) Surr: BFB	94.0	70-130	%Rec	1	12/21/2016 3:48:25 A	M 2927
EPA METHOD 8015M/D: DIESEL RA	NGF ORGANICS	;			Analy	st: TON
•	ND	9.6	mg/Kg	1	12/22/2016 12:16:16	AM 2928
Diesel Range Organics (DRO) Surr: DNOP	98.3	70-130	%Rec	1	12/22/2016 12:16:16	AM 2928
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analy	st: AG
Benzene	ND	0.025	mg/Kg	1	12/21/2016 3:48:25 A	M 2927
Toluene	ND	0.049	mg/Kg	1	12/21/2016 3:48:25 A	M 2927
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2016 3:48:25 A	
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2016 3:48:25 A	
Surr: 1,2-Dichloroethane-d4	97.8	70-130	%Rec	1	12/21/2016 3:48:25 A	M 2927
Sur: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	12/21/2016 3:48:25 A	M 2927
Surr: Dibromofluoromethane	104	70-130	%Rec	1	12/21/2016 3:48:25 A	M 292
Surr: Toluene-d8	107	70-130	%Rec	1	12/21/2016 3:48:25 A	M 292

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits Page 2 of 15 J

Released to Imaging: 11/2/2022 1:53:01 PM

- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Analytical Report Lab Order 1612936

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: EB2-1'

Project:

Tenneco SWD System

Collection Date: 12/14/2016 12:15:00 PM

Lab ID:

1612936-003

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst:	MRA
Chloride	ND	30	mg/Kg	20 12/22/2016 8:33:31 PM	29334
EPA METHOD 8015D MOD: GASOL	INE RANGE			Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1 12/21/2016 4:16:50 AM	29278
Surr: BFB	91.6	70-130	%Rec	1 12/21/2016 4:16:50 AM	29278
EPA METHOD 8015M/D: DIESEL R/	ANGE ORGANICS	}		Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 12/22/2016 12:39:30 AM	29282
Surr: DNOP	107	70-130	%Rec	1 12/22/2016 12:39:30 AM	29282
EPA METHOD 8260B: VOLATILES	SHORT LIST			Analyst:	AG
Benzene	ND	0.025	mg/Kg	1 12/21/2016 4:16:50 AM	29278
Toluene	ND	0.049	mg/Kg	1 12/21/2016 4:16:50 AM	29278
Ethylbenzene	ND	0.049	mg/Kg	1 12/21/2016 4:16:50 AM	29278
Xylenes, Total	ND	0.099	mg/Kg	1 12/21/2016 4:16:50 AM	29278
Surr: 1,2-Dichloroethane-d4	99.9	70-130	%Rec	1 12/21/2016 4:16:50 AM	29278
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1 12/21/2016 4:16:50 AM	29278
Surr; Dibromofluoromethane	102	70-130	%Rec	1 12/21/2016 4:16:50 AM	29278
Surr: Toluene-d8	104	70-130	%Rec	1 12/21/2016 4:16:50 AM	29278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID:

1612936-004

Client Sample ID: EB2-5'

Collection Date: 12/14/2016 12:17:00 PM

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
	ND	30	mg/Kg	20	12/22/2016 8:45:56 PM	29334
Chloride	,	00			Analyst:	ΔG
EPA METHOD 8015D MOD: GASOLIN	E RANGE				•	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2016 4:45:12 AM	
Surr: BFB	90.3	70-130	%Rec	1	12/21/2016 4:45:12 AM	2927
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	}			Analyst	: TON
	ND	9.6	mg/Kg	1	12/22/2016 1:03:00 AM	2928
Diesel Range Organics (DRO)	91.1	70-130	%Rec	1	12/22/2016 1:03:00 AM	2928
Surr: DNOP					Analyst	: AG
EPA METHOD 8260B: VOLATILES SH			414	1	12/21/2016 4:45:12 AM	
Веплепе	ND	0.025	mg/Kg		12/21/2016 4:45:12 AM	
Toluene	ND	0.049	mg/Kg	1	•=:	
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2016 4:45:12 AM	
Xylenes, Total	ND	0.099	mg/Kg	1	12/21/2016 4:45:12 AM	
Surr: 1,2-Dichloroethane-d4	99.8	70-130	%Rec	1	12/21/2016 4:45:12 AM	
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	12/21/2016 4:45:12 AM	
Surr: Dibromofluoromethane	101	70-130	%Rec	1	12/21/2016 4:45:12 AM	
Surr: Toluene-d8	103	70-130	%Rec	1	12/21/2016 4:45:12 AM	2927

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OCD 1-8/20/2022 - It for Day M

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1612936

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Lab ID:

1612936-005

Tenneco SWD System

Matrix: SOIL

Client Sample ID: EB3-5'

Collection Date: 12/14/2016 12:21:00 PM

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	3900	300	mg/Kg	200	12/27/2016 6:16:06 PM	29334
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2016 5:13:33 AM	29278
Surr: BFB	91.8	70-130	%Rec	1	12/21/2016 5:13:33 AM	29278
EPA METHOD 8015M/D: DIESEL R/	NGE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/22/2016 1:26:09 AM	29282
Surr: DNOP	94.4	70-130	%Rec	1	12/22/2016 1:26:09 AM	2928
EPA METHOD 8260B: VOLATILES SHORT LIST					Analysi	: AG
Benzene	ND	0.024	mg/Kg	1	12/21/2016 5:13:33 AM	2927
Toluene	ND	0.049	mg/Kg	1	12/21/2016 5:13:33 AM	2927
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2016 5:13:33 AM	1 29278
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2016 5:13:33 AM	29278
Surr: 1,2-Dichloroethane-d4	99.7	70-130	%Rec	1	12/21/2016 5:13:33 AM	2927
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	12/21/2016 5:13:33 AM	2927
Surr: Dibromofluoromethane	107	70-130	%Rec	1	12/21/2016 5:13:33 AM	2927
Surr: Toluene-d8	107	70-130	%Rec	1	12/21/2016 5:13:33 AM	2927

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits Page 5 of 15
- Sample pH Not In Range P
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1612936

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1612936-006

Client Sample ID: EB3-10'

Collection Date: 12/14/2016 12:23:00 PM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed B	atcl
EPA METHOD 300.0: ANIONS				Analyst: L	.GT
	4200	300	mg/Kg	200 12/27/2016 6:53:19 PM 2	9334
Chloride	•		~ -	Analyst: A	١G
EPA METHOD 8015D MOD: GASOL		4.0	mall/a	1 12/21/2016 5:41:54 AM 2	2927
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg %Rec	1 12/21/2016 5:41:54 AM 2	
Surr: BFB	91.2	70-130	%Rec	•	
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	3		Analyst: T	
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1 12/22/2010 1:10/207 1111 2	2928
Surr: DNOP	92.1	70-130	%Rec	1 12/22/2016 1:49:25 AM 2	2928
EPA METHOD 8260B: VOLATILES	SHORT LIST			Analyst: A	٩G
Benzene	ND	0.024	mg/Kg	1 12/21/2016 5:41:54 AM 2	2927
Toluene	ND	0.048	mg/Kg	1 12/21/2016 5:41:54 AM 2	2927
Ethylbenzene	ND	0.048	mg/Kg	1 12/21/2010 0.41/01/10	2927
Xylenes, Total	ND	0.097	mg/Kg	1 12/2 1/2010 0, 1110 17 111	2927
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1 12/21/2016 5:41:54 AM 2	
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1 12/21/2010 0: 11:017	2927
Surr: Dibromofluoromethane	105	70-130	%Rec	1 12/2 1/2010 0:11/01/	2927
Surr: Toluene-d8	104	70-130	%Rec	1 12/21/2016 5:41:54 AM 2	292

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1612936

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project:

Tenneco SWD System

Client Sample ID: EB4-5'

Collection Date: 12/14/2016 12:27:00 PM

Lab ID: 1612936-007	Matrix: SOIL		Received l	Received Date: 12/16/2016 9:05:00 AM		
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS				Analyst	LGT	
Chloride	4300	150	mg/Kg	100 12/27/2016 7:05:44 PM	29334	
EPA METHOD 8015D MOD: GASOL	INE RANGE			Analyst	: AG	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1 12/21/2016 6:10:14 AM	29278	
Surr: BFB	89.8	70-130	%Rec	1 12/21/2016 6:10:14 AM	29278	
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS	3		Analyst	: TOM	
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1 12/22/2016 2:12:33 AM	29282	
Surr: DNOP	94.0	70-130	%Rec	1 12/22/2016 2:12:33 AM	29282	
EPA METHOD 8260B: VOLATILES	SHORT LIST			Analyst	: AG	
Benzene	ND	0.023	mg/Kg	1 12/21/2016 6:10:14 AM	29278	
Toluene	ND	0.047	mg/Kg	1 12/21/2016 6:10:14 AM	29278	
Ethylbenzene	ND	0.047	mg/Kg	1 12/21/2016 6:10:14 AM	29278	
Xylenes, Total	ND	0.093	mg/Kg	1 12/21/2016 6:10:14 AM	29278	
Surr: 1,2-Dichloroethane-d4	99.4	70-130	%Rec	1 12/21/2016 6:10:14 AM	29278	
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1 12/21/2016 6:10:14 AM	2927	
Surr: Dibromofluoromethane	102	70-130	%Rec	1 12/21/2016 6:10:14 AM	2927	
Surr: Toluene-d8	105	70-130	%Rec	1 12/21/2016 6:10:14 AM	29278	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits Page 7 of 15 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System

Lab ID: 1612936-008

Project:

Client Sample ID: EB4-10'

Collection Date: 12/14/2016 12:29:00 PM

Received Date: 12/16/2016 9:05:00 AM

Lad ID: 1012930-000	7721112				
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
				Analyst	LGT
EPA METHOD 300.0: ANIONS	3900	150	mg/Kg	100 12/27/2016 7:18:08 PM	29334
Chloride		100		Analyst	: AG
EPA METHOD 8015D MOD: GASOL	INE RANGE			•	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1 12/21/2016 11:05:34 Al	
Surr: BFB	82.6	70-130	%Rec	1 12/21/2016 11:05:34 Al	VI 2821C
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS	}		Analyst	: TOM
	ND	9.6	mg/Kg	1 12/23/2016 5:58:02 AM	2930
Diesel Range Organics (DRO)	99.3	70-130	%Rec	1 12/23/2016 5:58:02 AM	2930
Surr: DNOP		70 100		Analysi	· AG
EPA METHOD 8260B: VOLATILES	SHORT LIST				
Benzene	ND	0.025	mg/Kg	1 12/21/2016 11:05:34 A	
Toluene	ND	0.050	mg/Kg	1 12/21/2016 11:05:34 A	
Ethylbenzene	ND	0.050	mg/Kg	1 12/21/2016 11:05:34 A	
Xylenes, Total	ND	0.10	mg/Kg	1 12/21/2016 11:05:34 A	
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1 12/21/2016 11:05:34 A	
Surr: 4-Bromofluorobenzene	90.7	70-130	%Rec	1 12/21/2016 11:05:34 A	
Surr: Dibromofluoromethane	115	70-130	%Rec	1 12/21/2016 11:05:34 A	
Surr: Toluene-d8	101	70-130	%Rec	1 12/21/2016 11:05:34 A	M 2927

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OCD: 8/30/2022-11:14:08-410

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
 - RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 15
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Released to Imaging: 11/2/2022 1:53:01 PM

Analytical Report Lab Order 1612936

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1612936-009

Client Sample ID: EB5-1'

Collection Date: 12/14/2016 12:31:00 PM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anai	yst: MRA
Chloride	ND	30	mg/Kg	20	12/22/2016 10:12:47	7 PM 29334
	INE DANGE				Anal	yst: AG
EPA METHOD 8015D MOD: GASOL	ND	4.8	mg/Kg	1	12/21/2016 11:34:24	4 AM 29278
Gasoline Range Organics (GRO)	83.8	70-130	%Rec	1	12/21/2016 11:34:24	
Surr: BFB			701.00		Anai	lyst: TOM
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS					•
Diesei Range Organics (DRO)	ND	9.8	mg/Kg	1	12/23/2016 7:07:43	=
Surr: DNOP	93.3	70-130	%Rec	1	12/23/2016 7:07:43	AM 29308
EPA METHOD 8260B: VOLATILES	SHORT LIST				Ana	lyst: AG
Benzene	ND	0.024	mg/Kg	1	12/21/2016 11:34:2	4 AM 29278
Toluene	ND	0.048	mg/Kg	1	12/21/2016 11:34:2	4 AM 29278
	ND	0.048	mg/Kg	1	12/21/2016 11:34:2	4 AM 29278
Ethylbenzene	ND	0.096	mg/Kg	1	12/21/2016 11:34:2	4 AM 29278
Xylenes, Total	99.9	70-130	%Rec	1	12/21/2016 11:34:2	4 AM 29278
Surr: 1,2-Dichloroethane-d4	91,8	70-130	%Rec	1	12/21/2016 11:34:2	4 AM 2927
Surr: 4-Bromofluorobenzene	118	70-130	%Rec	1	12/21/2016 11:34:2	4 AM 29278
Surr: Dibromofluoromethane Surr: Toluene-d8	99.9	70-130	%Rec	1	12/21/2016 11:34:2	

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OCD: 8/38/2022 11:14:03 AM

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1612936

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Project: Tenneco SWD System

Lab ID: 1612936-010

Client Sample ID: EB5-5'

Collection Date: 12/14/2016 12:33:00 PM Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: MRA
Chloride	ND	30	mg/Kg	20	12/22/2016 10:25:12	PM 29334
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analy	yst: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/21/2016 12:03:14	PM 29278
Surr: BFB	83.8	70-130	%Rec	1	12/21/2016 12:03:14	PM 29278
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	;			Anal	yst: TOM
	ND	9.6	mg/Kg	1	12/23/2016 7:31:00	AM 29308
Diesel Range Organics (DRO) Surr: DNOP	114	70-130	%Rec	1	12/23/2016 7:31:00	AM 29308
EPA METHOD 8260B: VOLATILES	SHORT LIST				Anal	yst: AG
	ND	0.024	mg/Kg	1	12/21/2016 12:03:14	PM 29278
Benzene Toluene	ND	0.047	mg/Kg	1	12/21/2016 12:03:14	
Ethylbenzene	ND	0.047	mg/Kg	1	12/21/2016 12:03:14	PM 29278
Xylenes, Total	ND	0,094	mg/Kg	1	12/21/2016 12:03:14	
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	12/21/2016 12:03:14	
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	12/21/2016 12:03:14	
Surr: Dibromofluoromethane	118	70-130	%Rec	1	12/21/2016 12:03:14	
Surr: Toluene-d8	103	70-130	%Rec	1	12/21/2016 12:03:14	PM 29278

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits page 10 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1612936

Date Reported: 12/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Tenneco SWD System

Lab ID: 1612936-011

Project:

Client Sample ID: EB5-10'

Collection Date: 12/14/2016 12:36:00 PM

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	30	mg/Kg	20	12/22/2016 10:37:37	PM 29334
	INE BANGE				Analy	st: AG
EPA METHOD 8015D MOD: GASOL		4.9	mg/Kg	1	12/21/2016 12:31:56	PM 29278
Gasoline Range Organics (GRO)	ND	4.9 70-130	%Rec	1	12/21/2016 12:31:56	
Surr: BFB	83.3		MILEC	•		
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	•			•	/st: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/23/2016 7:54:13 A	
Surr: DNOP	109	70-130	%Rec	1	12/23/2016 7:54:13 A	AM 2930
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analy	/st: AG
	ND	0.024	mg/Kg	1	12/21/2016 12:31:56	PM 2927
Benzene Toluene	ND	0.049	mg/Kg	1	12/21/2016 12:31:56	
	ND	0.049	mg/Kg	1	12/21/2016 12:31:56	PM 2927
Ethylbenzene Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2016 12:31:58	
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	12/21/2016 12:31:56	
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	12/21/2016 12:31:56	
Surr: Dibromofluoromethane	113	70-130	%Rec	1	12/21/2016 12:31:56	
Surr: Toluene-d8	102	70-130	%Rec	1	12/21/2016 12:31:56	PM 2927

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits page 11 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 11/2/2022 1:53:01 PM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612936

28-Dec-16

Client:

EOG Resources

Project:

Tenneco SWD System

Sample ID MB-29334 Client ID:

SampType: mblk

TestCode: EPA Method 300.0: Anions

LowLimit

Batch ID: 29334

Batch ID: 29334

Analysis Date: 12/22/2016

RunNo: 39630

Units: mg/Kg

Qual

Prep Date:

12/21/2016

Analysis Date: 12/22/2016

SeqNo: 1241440

HighLimlt

RPDLimit

Analyte Chloride

Result PQL ND 1.5

SPK value SPK Ref Val %REC

TestCode: EPA Method 300.0: Anions

%RPD

Sample ID LCS-29334

Prep Date: 12/21/2016

Client ID: LCSS

PBS

SampType: ics

RunNo: 39630

SeqNo: 1241441

Units: mg/Kg

RPDLimit Qual

110

%RPD

SPK value SPK Ref Vai %REC LowLimit HighLimit **PQL** Result Analyte 92.9 90 15.00 1.5 14 Chloride

Qualifiers:

Received by OCD: 8/30/2022 11:14:03 AM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Ε Analyte detected below quantitation limits J
- Page 12 of 15

- Sample pH Not In Range р
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Released to Imaging: 11/2/2022 1:53:01 PM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612936 28-Dec-16

Client:	

EOG Resources

Client: EOG R	esources							
Project: Tennec	o SWD System							
Sample ID LCS-29282	SampType: LCS	Te	stCode: EPA N	Nethod 8	015M/D: Dies	el Range	Organics	
Client ID: LCSS	Batch ID: 29282		RunNo: 395 76	3				
Prep Date: 12/19/2016	Analysis Date: 12/21/20	16	SeqNo: 12395	546	Units: mg/Kg			
Analyte	Result PQL SPK v	alue SPK Ref Va	%REC Lo	wLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53 10 5	0.00	107	63.8	116			
Surr: DNOP	5.4 5	5,000	107	70	130			
Sample ID MB-29282	SampType: MBLK	Te	stCode: EPA N	Viethod 8	8015M/D: Dies	el Range	organics	
Client ID: PBS	Batch ID: 29282		RunNo: 39576	6				
Prep Date: 12/19/2016	Analysis Date: 12/21/20	16	SeqNo: 1239	547	Units: mg/Kg			
Analyte	Result PQL SPK	value SPK Ref Va	%REC Lo	wLimit	HighLimit	%RPD	RPDLImit	Qual
Diesel Range Organics (DRO)	ND 10							
Surr: DNOP	11 1	10.00	110	70	130			
Sample ID LCS-29308	SampType: LCS	Te	stCode: EPA	Method (8015M/D: Dies	sel Rang	e Organics	
Client ID: LCSS	Batch ID: 29308		RunNo: 3959	0				
Prep Date: 12/20/2016	Analysis Date: 12/22/20	16	SeqNo: 1240	933	Units: mg/Kg	I		
Analyte	Result PQL SPK	value SPK Ref Va	i %REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47 10	50.00 0	94.9	63.8	116			
Surr: DNOP	4.4	5.000	88.5	70	130			
Sample ID MB-29308	SampType: MBLK	Te	estCode: EPA	Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID: 29308		RunNo: 3959	0				
Prep Date: 12/20/2016	Analysis Date: 12/22/20)16	SeqNo: 1240	934	Units: mg/Kg	3		
Analyte	Result PQL SPK	value SPK Ref Va	il %REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	ND 10 9.2	10.00	92.4	70	130			

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Page 13 of 15
- Sample pH Not In Range P
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 14 of 15

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612936 28-Dec-16

Client:

EOG Resources

Project:

Tenneco SWD System

Sample ID Ics-29278	SampT	Type: LC	s	Tes	(Code: El	PA Method	8260B: Volat	illes Short	. List	ŧ		
Client ID: LCSS	Batch	h ID: 292	278	F	RunNo: 39538							
Prep Date: 12/19/2016	Analysis D)ate: 12	2/20/2016	ξ	SeqNo: 12	238550	Units: mg/K	ίg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.95	0.025	1.000		94.6	70	130					
Toluene	0.92	0.050	1.000	0	92.2	70	130					
Ethylbenzene	0.93	0.050	1.000	0	93.0	70	130					
Xylenes, Total	3.2	0.10	3.000	0	108	70	130					
Surr: 1,2-Dichloroethane-d4	0.51		0,5000		102	70	130					
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.B	70	130					
Surr: Dibromofluoromethane	0.55		0.5000)	109	70	130					
Surr: Dipromosidoromenane Surr: Toluene-d8	0.50		0,5000		99.6	70	130					
Sample ID mb-29278	SampT	BLK	Ter	stCode: E	.PA Method	3 8260B: Vola	itiles Shor	t List				

Sample ID mb-29278	SampT	ype: MB	3LK	TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: PBS	Batch	ı ID: 29 2	278	R	RunNo: 3								
Prep Date: 12/19/2016	Analysis Date: 12/20/2016		S	SeqNo: 1238551			Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10					400						
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.8	70	130						
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.9	70							
Surr: Dibromofluoromethane	0.53		0.5000		105	70							
Surr: Toluene-d8	0.52		0.5000		103	70	130						

Qualifiers:

Received by OGD: 8/30/2022 11:14:03 MM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Released to Imaging: 11/2/2022 1:53:01 PM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612936 28-Dec-16

Client:

EOG Resources

Droject

Sun: BFB

Tenneco SWD System

Project: Tenneco	o awd aysi	6111										
Sample ID Ics-29278	SampT	ype: LC	s	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch	1D: 29	278	R								
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	8	SeqNo: 1	238582	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.2	62.9	123					
Surr: BFB	450		500.0		89.1	70	130					
Sample ID mb-29278	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D Mod:	Gasoline	Range			
Client ID: PBS	Batch	h ID: 29	278	F	RunNo: 3	9538						
Prep Date: 12/19/2016	Analysis D	Date: 12	2/20/2016	5	SeqNo: 1	238585	Units: mg/h	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual		
Gasoline Range Organics (GRO)	ND	5.0					400					
Surr: BFB	450		500.0		90.6	70	130					

Qualifiers:

Received by OCD: 8/30/2022 11:14:08-4710

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- В
- Value above quantitation range Е
- Analyte detected below quantitation limits
- Sample pH Not In Range P
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

Page 15 of 15



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

LABORATORY Websile: 19191	v.hallenvironmental.c	om	
Client Name: EOG/Yales Work Order Num	ber: 1612936		ReplNo: 1
Received by/date: AG 12/16/1	 Φ		
ogged By: Ashley Gallegos 12/16/2016 9:05:00		A	
completed By: Ashley Gallebos, 12/16/2016 3/43:19		A	
Reviewed By: ARA 12/19/16		. (
hain of Custody			
1. Custody seals intact on sample bottles?	Yes []	No [.]	Not Present
2. Is Chain of Custody complete?	Yes 🖓	No 17	Not Present
. How was the sample delivered?	Courier		
<u>og In</u>			
4. Was an attempt made to cool the samples?	Yes 🗹	No []	NA [T
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗭	No []	NA []
6. Sample(s) in proper container(s)?	Yes 🔀	No 🎵	
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🏻	
8, Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🛄	
9. Was preservative added to bottles?	Yes []	No 🗷	NA []
10.VOA vials have zero headspace?	Yes 🗀	No 🗀	No VOA Viais [火]
11. Were any sample containers received broken?	Yes ["]	No 🔛	# of preserved
12. Does paperwork match bottle labels?	Yes 📆	No 🗀	bottles checked for pH:
(Note discrepancies on chain of custody)		1 = 1	(<2 or >12 unless note Adjusted?
13, Are matrices correctly identified on Chain of Custody?	Yes 🔀	No [_]	Wolnaseo L
14. Is it clear what analyses were requested?	Yes 🔀	No []	Chaeled hu
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No ll	Checked by:
and the War (If and Backle)			
Special Handling (If applicable) 16, Was client notified of all discrepancies with this order?	Yes []	No [_]	na 🖾
Person Notified: Da	te i)	
By Whom: Vie	*	hone [1] Fax	[] In Person
Regarding:			CO. S. A. M. M. M. M. CO. C.
Client Instructions:	ing and recovering the property of the latest and another the latest and the late	MINNEY COMPANDED	D. MARIAN STREET, ST. T. S.
		*** ***********************************	
17. Additional remarks:			
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No.	Seal Date	Signed By	
1 3.5 Good Yes			

Received by OCD: 8/30/2022 11:14:03 AM

- Rush ANALYSIS LABORATORY	www.hallenvironmental.com	Tenneco SWD System 4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107		(lese	9808 s (802) (Gas i	effe (1.1)	NO 100 8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OO	Preservative HEAL No. X + A A A A A A A A A A A A A A A A A A	CE -00) x x x	GE -003 x x x	CE 7003 X X X X	,	ст 700 5 х х х ж	CE -OOC X X X DOC-	CE -007 x x x	٠	СЕ X X X X X X X X X X X X X X X X X X X	CE X X X Q/O-	се — — — — — — — — — — — — — — — — — — —	Date Time Remarks: Results needed by 12/27/2016.	1110	10110	Date Time
WWW		lawkins N	5-345-39				(1.1	81t	, po	T'PH (Meth												Results ne			
		4901 H	Tel. 5((Vlno	(Gas	HdT	. +- :	381	BTEX + MT	×	×	×	×	_×	×	×	×	×	×	×				
					(LZ	(808	I I	+	LBE		_×	×	×	×	×	×	×	×	×	×	×		K	_	<u>,</u>
		System				50		No.	8	HEAL NO. バッノネタヌし	[00-	E00-	-003	h00-	7005	100-	-00J	058	-009	010-	10-		٦		
	äi	Fenneco SWD			ger:	Chase Settle PO # 205. 07	age	٠. ١	perature: 3.	Pre	CE	ICE	ICE	빙	IĊE	핑	GE SC	낊	핑	띥	ICE	•	1/61		•
X Standar	Project Name:		Project #:		Project Manager:		Sampler:	On Ice:	Sample Temperature: 3	Container Type and #	1 - 4oz.	1 - 402	1 - 402.	1 - 402.	1 - 402.	1 - 402.	1 - 402.	1 - 402.	1 - 402.	1 - 402	1 - 402.	Received by:	ANNE	Received by:	//
			105 South 4th Street Artesia, NM 88210	537	chase settle@eogresources.com	□ Level 4 (Full Validation)				Sample Request ID	EB1-1'	EB1-5'	EB2-1'	EB2-5'	EB3-5'	EB3-10'	EB4-5	EB4-10'	EB5-1'	EB5-5'	EB5-10'	id by:	8	id by:	
EOG Resources			reet Artes	575-703-6537	chase se	_		□ Other		Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soll	Soil	Relinquished by:	N.	Relinquished by:	-
OG Re		Mailing Address:	h 4th St			OA/QC Package:	Ë		□ EDD (Type)	Time	12:11P	12:13P Soil	12:15P	12:17P Soil	12:21P	enuzore 12:23P Soil	12:27P Soil	12:29P Soil	12:31P	12:33P Soli	12:36P	Time:	4:30%	Time:	
		<u> </u>	걸	Phone #:		i, E	岩	□ NELAP	8	Date	8118	2019	2018	948	2018	, 9,02	/SOTE	,	5000	, sorie	1900	Date:		Date:	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: ywwy.hallenvironmental.com

January 20, 2017

Chase Settle
EOG Resources
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

FAX

RE: Tenneco SWD System

OrderNo.: 1701495

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 32 sample(s) on 1/12/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order: 1701495

Date Reported: 1/20/2017

Hall Environmental Analysis Laboratory, Inc.

CDIDITI	OG Resources enneco SWD System			La	b Order: 1701495
Lab ID: Client Sample ID:	1701495-001 T1-10.5'		•	Matrix:	
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	4200	150	mg/Kg	Analyst: LGT 100 1/16/2017 7:29:02 PM 29684
Lab ID: Client Sample ID:	1701495-002 T1-12.5'		ı	Collection Date: Matrix:	
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	2800	150	mg/Kg	Analyst: LGT 100 1/16/2017 7:41:27 PM 29684
Lab ID: Client Sample ID:	1701495-003 T1-14.5'			Collection Date: Matrix:	
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	2700	150	mg/Kg	Analyst: LGT 100 1/16/2017 8:18:41 PM 29684
Lab ID: Client Sample ID:	1701495-004 T1-15.5'	-		Collection Date Matrix	: 1/4/2017 10:34:00 AM : SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS	3400	150	mg/Kg	Analyst: LGT 100 1/16/2017 8:31:06 PM 29693
Lab ID: Client Sample ID:	1701495-005 WB1-2'				: 1/4/2017 11:24:00 AM : SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch ID
EPA METHOD 30	0.0: ANIONS	ND	30	mg/Kg	Analyst: LGT 20 1/14/2017 3:37;31 PM 29693

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order: 1701495

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/20/2017

CELEITAT -	OG Resources enneco SWD System			La	ab Order:	170149	5
Lab ID: Client Sample ID:	1701495-006 WB1-F		(Collection Date: Matrix:		11:51:00 AM	I
Analyses		Result	PQL Qual	Units	DF Date	Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	30	mg/Kg	20 1/14/2	Anal 2017 4:14:45 P	yst: LGT M 29693
Lab ID: Client Sample ID:	1701495-007 WB1-F+1'		(Collection Date: Matrix:		11:55:00 AM	1
Analyses		Result	PQL Qual	Units	DF Date	Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	30	mg/Kg	20 1/14/2	Anal 2017 4:27:10 P	yst: LGT M 29693
Lab ID: Client Sample ID:	1701495-008 WB2-2'			Collection Date Matrix	: SOIL		
Analyses		Result	PQL Qual	Units	DF Date	Anaiyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	ND	30	mg/Kg	20 1/14/	Anal 2017 5:04:24 F	lyst: LGT PM 29693
Lab ID: Client Sample ID:	1701495-009 WB2-F		•	Collection Date Matrix	: 1/4/2017 : SOIL	11:58:00 AM	A
Analyses		Result	PQL Qual	Units	DF Date	Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	ND	30	mg/Kg	20 1/14/	Ana 2017 5:16:49 F	lyst: LGT PM 29693
Lab ID:	1701495-010			Collection Date	: 1/4/2017	12:00:00 PN	Л
Client Sample ID:	WB2-F+1'			Matrix	: SOIL		
Analyses		Result	PQL Qual	Units	DF Date	Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	30	30	mg/Kg	20 1/14/	Ana 2017 5:29:14 I	llyst: LGT PM 29693

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order: 1701495 Date Reported: 1/20/2017

Hall Environmental Analysis Laboratory, Inc.

Hun Enva on	J							
	OG Resources Senneco SWD System			La	ab Or	der: 1701	495	
Lab ID: Client Sample ID:	1701495-011 WB3-2'			Collection Date: Matrix:			M	
Analyses		Result	PQL Qual	Units	DF !	Date Analyzed	Bat	ch ID
EPA METHOD 300 Chloride	i.0: ANIONS	ND	30	mg/Kg	20	An 1/14/2017 5:41:38	alyst: PM	LGT 29693
Lab ID: Client Sample ID:	1701495-012 WB3-F			Collection Date: Matrix			M	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Bat	tch ID
EPA METHOD 300 Chloride).0: ANIONS	ND	30	mg/Kg	20	Ar 1/14/2017 5:54:0	nalyst: 3 PM	LGT 29693
Lab ID: Client Sample ID:	1701495-013 WB3-F+1'			Collection Date Matrix	: SO	IL		
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Ba	tch II
EPA METHOD 300 Chloride	D.O: ANIONS	ND	30	mg/Kg	20	Ai 1/14/2017 6:06:2	nalyst: 7 PM	LGT 29693
Lab ID: Client Sample ID:	1701495-014 WB4-2'			Collection Date Matrix			AM	
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Ва	tch II
EPA METHOD 30 Chloride	0.0: ANIONS	ND	30	mg/Kg	20	A 1/14/2017 6:18:5	nalyst: 2 PM	LGT 29693
Lab ID: Client Sample ID:	1701495-015 WB4-F			Collection Date Matrix		/2017 12:11:00 IL	PM	
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Ba	tch II
EPA METHOD 30 Chloride	0.0: ANIONS	ND	30	mg/Kg	20	A 1/14/2017 6:31:1	naiyst: 7 PM	LGT 2969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OCD: 8/30/2022 11:14:08 XIM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits J Page 3 of 8
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Analytical Report
Lab Order: 1701495
Date Reported: 1/20/2017

Hall Environmental Analysis Laboratory, Inc.

22011 232712						
CEIEITA -	EOG Resources Fenneco SWD System			L	ab Order: 17014	195 ,
Lab ID: Client Sample ID:	1701495-016 WB4-F+1'			Collection Date: Matrix:	1/4/2017 12:13:00 P SOIL	М
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS	ND	30	mg/Kg	An 20 1/14/2017 6:43:42	alyst: LGT PM 29693
Lab ID: Client Sample ID:	1701495-017 EB3-F			Collection Date: Matrix:	: 1/4/2017 12:19:00 P : SOIL	M
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	370	30	mg/Kg	An 20 1/14/2017 6:56:07	alyst: LGT PM 29693
Lab ID: Client Sample ID: Analyses	1701495-018 EB3-F+3'	Result	PQL Qual	Matrix	: 1/4/2017 12:21:00 F : SOIL DF Date Analyzed	M Batch ID
	0.0. ANIONO				Ar	alyst: LGT
EPA METHOD 30 Chloride	U.U: ANIONS	ND	30	mg/Kg	20 1/14/2017 7:33:20	
Lab ID: Client Sample ID:	1701495-019 EB3-F+6'			Collection Date Matrix	: 1/4/2017 12:24:00 F : SOIL	PM
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	120	30	mg/Kg	Ar 20 1/14/2017 7:45:4	nalyst: LGT 5 PM 29693
Lab ID: Client Sample ID	1701495-020 : EB3-F+9'				:: 1/4/2017 12:26:00 I :: SOIL	PM
Analyses		Result	PQL Qua	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS	ND	30	mg/Kg	A 20 1/14/2017 7:58:0	nalyst: LGT 9 PM 29693

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order: 1701495

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/20/2017

-	OG Resources enneco SWD System				Lab Order:	1701495	
Lab ID: Client Sample ID:	1701495-021 EB3-F+12'				ate: 1/4/2017 12 rix: SOIL	2:29:00 PM	
Analyses		Result	PQL Qu	al Units	DF Date Ar	nalyzed I	Batch ID
EPA METHOD 300.	.0: ANIONS	ND	30	mg/Kg	20 1/14/20	Analys 17 8:10:34 PM	st: LGT 1 29693
Lab ID: Client Sample ID:	1701495-022 EB4-F				ate: 1/4/2017 12 trix: SOIL		
Analyses		Result	PQL Qu	al Units	DF Date A	nalyzed l	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	30	mg/Kg	20 1/16/20	A naly: 17 9:08:19 PM	st: LGT 1 29694
Lab ID: Client Sample ID:	1701495-023 EB4-F+3'				eate: 1/4/2017 12 trix: SOIL	2:33:00 PM	
Analyses		Result	PQL Qu	al Units	DF Date A	nalyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	30	mg/Kg	20 1/16/20	Analy 17 9:45:32 PM	st: LGT 1 29694
Lab ID:	1701495-024			Collection D	ate: 1/4/2017 1	2:37:00 PM	
Client Sample ID:	EB4-F+6'	•		Ma	trix: SOIL		
Analyses		Result	PQL Qu	al Units	DF Date A	nalyzed	Batch ID
EPA METHOD 300	0.0: ANIONS	ND	30	mg/Kg	20 1/16/20	Analy 17 9:57:57 PM	st: LGT // 29694
Lab ID: Client Sample ID:	1701495-025 EB4-F+9'				Date: 1/4/2017 1 trix: SOIL	2:39:00 PM	
Analyses		Result	PQL Qı	ıal Units	DF Date A	nalyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	ND	30	mg/Kg	20 1/16/20	Analy 017 10:10:21 F	et: LGT PM 29694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 11/2/2022 1:53:01 PM

Analytical Report

Lab Order: 1701495

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/20/2017

CDIDITI	OG Resources enneco SWD System			. La	ab Order: 1701495
Lab ID: Client Sample ID:	1701495-026 EB4-F+12'			Collection Date: Matrix:	1/4/2017 12:40:00 PM SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	30	mg/Kg	Analyst: LGT 20 1/16/2017 10:47:35 PM 29694
Lab ID:	1701495-027		•		1/4/2017 12:44:00 PM
Client Sample ID: Analyses	SB-F	Result	PQL Qual	Matrix: Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	30	mg/Kg	Analyst: LGT 20 1/16/2017 11:00:00 PM 29694
Lab ID: Client Sample ID:	1701495-028 T2-10.5'			Collection Date: Matrix	: 1/10/2017 12:23:00 PM : SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride).0: ANIONS	4300	300	mg/Kg	Analyst: LGT 200 1/17/2017 6:40:04 PM 29694
Lab ID: Client Sample ID:	1701495-029 T2-12.5'			Collection Date Matrix	: 1/10/2017 12:32:00 PM : SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	5400	300	mg/Kg	Analyst: LGT 200 1/17/2017 6:52:28 PM 29694
Lab ID:	1701495-030				: 1/10/2017 12:43:00 PM
Client Sample ID:	T2-14.5'		•	Matrix	SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	3800	150	mg/Kg	Analyst: LGT 100 1/18/2017 11:18:09 PM 29694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT:

Project:

Analytical Report Lab Order: 1701495

DF Date Analyzed

Date Reported: 1/20/2017

Hall Environmental Analysis Laboratory, Inc.

EOG Resources

Lab Order:

1701495

Batch ID

Collection Date: 1/10/2017 1:09:00 PM 1701495-031 Lab ID:

Matrix: SOIL Client Sample ID: E3-14.5'

Tenneco SWD System

PQL Qual Units Result Analyses Analyst: LGT **EPA METHOD 300.0: ANIONS** 100 1/18/2017 11:30:33 PM 29694 150 mg/Kg 3100 Chloride

Collection Date: 1/10/2017 1:26:00 PM 1701495-032 Lab ID:

Matrix: SOIL Client Sample ID: E-16.5'

DF Date Analyzed **Batch ID** Result PQL Qual Units Analyses Analyst: LGT **EPA METHOD 300.0: ANIONS** 100 1/18/2017 11:42:58 PM 29694 150 mg/Kg 3700 Chloride

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OCD: 8/30/2022 11:14:03 AM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits Page 7 of 8
- Sample pH Not In Range
- Reporting Detection Limit RL
 - Sample container temperature is out of limit as specified

Released to Imaging: 11/2/2022 1:53:01 PM

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701495 20-Jan-17

Client:

EOG Resources

Project:

Tenneco SWD System

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 29684

RunNo: 40017

Prep Date: 1/13/2017

Sample ID LCS-29684

Client ID: LCSS

Sample ID MB-29684

Analysis Date: 1/13/2017

SeqNo: 1254178

Units: mg/Kg

%RPD **RPDLimit** Qual HighLimit

Analyte Chloride

PQL Result ND

SampType: LCS

TestCode: EPA Method 300.0: Anions

Batch ID: 29684

SPK value SPK Ref Val %REC LowLimit

RunNo: 40017

Analysis Date: 1/13/2017 Prep Date: 1/13/2017

SeqNo: 1254179

Units: mg/Kg

Analyte

POL

%REC

LowLimit

%RPD

Qual

Result

SPK value SPK Ref Val 1.5

97.8

HighLimit 110 **RPDLImit**

Chloride

15

15.00

TestCode: EPA Method 300.0: Anions

Sample ID MB-29693 Client ID: PBS Prep Date: 1/13/2017 SampType: MBLK Batch ID: 29693

RunNo: 40019

Units: mg/Kg

Analyte

Result

Analysis Date: 1/14/2017

SeqNo: 1254254

RPDLimit Qual

ND 1.5

Result

15.00

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Chloride

SampType: LCS

PQL

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID LCS-29693

Sample ID MB-29694

Client ID: PBS

Prep Date:

Batch ID: 29693

RunNo: 40019

110

Prep Date: 1/13/2017

1/13/2017

Analysis Date: 1/14/2017

Analyte

SeqNo: 1254255

Units: mg/Kg

SPK value SPK Ref Val **PQL**

LowLimit %REC

96.5

HighLimit

RPDLimit

Qual

Chloride

14 1.5

TestCode: EPA Method 300.0: Anions

RunNo: 40057

90

Batch ID: 29694 Analysis Date: 1/16/2017

SampType: MBLK

SeqNo: 1255401

Units: mg/Kg

%RPD

%RPD

Analyte

PQL Result ND 1.5

SPK value SPK Ref Val

15.00

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Chloride

Sample ID LCS-29694

Prep Date: 1/13/2017

Client ID: LCSS

SampType: LCS Batch ID: 29694

Result

15

Analysis Date: 1/16/2017

PQL

1.5

RunNo: 40057 SeqNo: 1255402

%REC

97.3

90

TestCode: EPA Method 300.0: Anions

LowLimit

Units: mg/Kg

110

HighLimit

RPDLimit

Qual

Analyte Chloride

Received by OCD: 8/30/2022 11:14:03 ATM

Qualifiers: Value exceeds Maximum Contaminant Level.

Not Detected at the Reporting Limit

- Sample Diluted Due to Matrix D Holding times for preparation or analysis exceeded
- RPD outside accepted recovery limits R % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range Е Analyte detected below quantitation limits
- Sample pH Not In Range P
- Reporting Detection Limit RLSample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

LABORATORY	Website: www.f	allenvironmental.	com		
Client Name: EOG/Yates	Work Order Numbe	er: 1701495		RcptNo:	1
Received by/date: Received by/date:	01/12/17	· · ·			
Logged By: Ashley Gallegos	1/12/2017 9:35:00 Af	VI	A]
Completed By: Ashley Gallegos	1/12/2017 12:48:08 F		A 3		
Reviewed By:	01/12/17		٠, ٥		
Chain of Custody	, O.M.C.4. 1.3	# 49 pt 5 tr 5 tr 4 tr 5 tr 5 tr 5 tr 5 tr 5 t			
1. Custody seals intact on sample bottles?		Yes [_]	No []	Not Present	
2. Is Chain of Custody complete?		Yes 🕢	No [.]	Not Present []	
3. How was the sample delivered?		<u>Courier</u>			
Log In					
4. Was an attempt made to cool the sample	s?	Yes []	и∘ 🛂	NA []	
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes []	No ☑	NA []	
6. Sample(s) in proper container(e)?		Yes <table-cell></table-cell>	No []		
7. Sufficient sample volume for indicated tes	l(s)?	Yев 🗹	No []		
8, Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗭	No [_		
9. Was preservative added to bottles?		Yes [.]	No 🗹	NA II	·
10.VOA vials have zero headspace?		Yes [No []	No VOA Viais 🗭	
11. Were any sample containers received bro	ken?	Yes 🗀	No 🗹	# of preserved	
		Yes 😾	No [']	bottles checked for pH:	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes IXI	MOFI		r >12 unless noted)
13. Are matrices correctly identified on Chain	of Custody?	Yes 🗵	No []	Adjusted?	
14, is it clear what analyses were requested?		Yes 🗹	No []	01ld h	
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔀	No [.]	Checked by:	
Special Handling (if applicable)					
16. Was client notified of all discrepancies with	n this order?	Yes []	No []	NA 💆	
деничности				*********** * * * * * * * * * * * * *	l
Person Notified: By Whom:	Date Via:	 	hone [_] Fax	i''') in Person	
Regarding:	ediminentalistas (Company)	I''l cultu I''l r	LIGHT [_] I GV	1.) III. c.ool.	
Client Instructions:	<u> </u>			MARKET CONTRACTOR OF THE PARTY	
17. Additional remarks:					,
18. <u>Cooler Information</u>					
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 13.3 Good Y	es				
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Received by OCD: 8/30/2022 11:14:03 AM

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EOG	3 Y Re	Client: EOG Y Resources, Inc.		X Standar	□ Rush				4	Ž		SI	3	Ö	ANALYSIS LABORATORY	S R	>
				Project Name:	1				>	ww.h	www.hallenvironmental.com	onme	ntal.c	E			
Mailing Address:	ess:			F	Tenneco SWD System	System	4	901 H	lawkir	S A	4901 Hawkins NE - Albuquerque, NM 87109	naner	ine, N	M 87	109		
outh 4	th Stre	et Artes	105 South 4th Street Artesia, NM 88210	Project #:		•		rel. 5(Tel. 505-345-3975	397	Υ.	Fax 50	505-345-4107	4107			
Phone #:	57	575-703-6537	537			-					Analy	sis Re	Analysis Request				
email or Fax#:	1	hase Se	Chase Settle@eogresources.com	Project Manager:	je:		• •						S.				
QA/QC Package:	age:				Chase Settle								<u> 9</u> 2				
☐ Standard		נ	□ Level 4 (Full Validation)		PO#205.0750	20							-1 Z9				
Accreditation:	Ë			Sampler: Chase Settl	ø						124,		ยกย	((N
O NELAP				On toe	1.	No.					, 9		/ S	AC			10
□ EDD (Type)	(S)			Sample Temp	erature: (S.						lsie						<u>V) ,</u>
Date		Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1701495	TM + X3T8 TM + X3T9	FTEX + Matho	TPH (Meth	EDB (Meth	8310 (PNA RCRA 8 M	Anlons (F.	8081 Pestlo OV) 80828	mə2) 0728			Pir Bubbles
меоп 9:52А	1	Soil	T1-10.5	1 - 4oz.	None	-001						×					
10:02A	~	Soil	T1-12.5	1 - 4oz	None	-002						×					
10:18A	1	Soil	T1-14.5'		None	-003						×					
10,		ō.	T1-15.5'	1 - 4oz.	None	-004						×					
11:24A	24A S	Soll	WB1-2'	1 - 4oz.	None	-05Z						×					
113	14:51A. Soil	ĬŌ	WB1-F	1 - 4oz	None	.900 <u>-</u>				-		×					\neg
11:55A	55A S	Soil	WB1-F+1"	1 - 402.	None	-007				\dashv	-	×		·			_
11:	unzer 11:32A Soil	Ĭ <u>ö</u>	WB2-2'	1 - 40z.	None	800-		_		ᅦ		$\overline{\mathbf{x}}$					7
11:58A	58A S	Soil	WB2-F	1 - 402.	None	60Q-		_				×		_			
2017 12:		io	WB2-F+1	1 - 40z.	None .	0/0-				\dashv	_	×	_				
11:39A	39A S	Soil	WB3-2'	1 - 40z.	None	110-					_	×	\dashv	_		4	
12:	14201 Soil	Soil	WB3-F	1 - 4oz.	None	7		\dashv			_	×	-	_		-	
Date: Time:	15 %	Relinquished by	18 P	Received by:	7	Date Time 1/12/17 0935	Rema	ıks:	Resul	s nee	Remarks: Results needed by 1/19/2017.	1/19/	2017.				
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HALL ENVIRONMENTAL	ANALYSIS LABORATORY	ntal.com	- Albuquerque, NM 87109	Fax 505-345-4107	quest				(/	/0/	(A(9260B (VC (YC (YC (YC (YC (YC (YC (YC (YC (YC (Y													2017.		
L ENVI	LYSIS	www.hallenvironmental.com	- Afbuquer		Analysis Request		S'FC)d' ^z	ON'E	NC	(I)	8310 (PNA M 8 AROR (F) (PV)	×	×	×	×	×	×	×	×	×	×	×	×	eded by 1/19/		
HAL	ANA	www.f	4901 Hawkins NE	Tel. 505-345-3975		(les	elQ\s	Se5	(1.8 (1.4)	09 LV	pol	TPH Methorities (Methorities)													Remarks: Results needed by 1/19/2017.		
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			System					50			20	HEAL NO. 1701995	· -013	h10-	-015	910-i	<u> </u>	810-	619	-020	-02	-022	-023	4	Date Time	05/00/1/2/ 10	Date Time
ime:	□ Rush		Tenneco SWD System			jer:	Chase Settle	PO# 205.0750) and a	Preservative Type	None	None	None	None	None	None	None	None	None	None	None	None	\		
Turn-Around Time:	X Standart	Project Name:	·	Project #:		Project Manager:		•	Sampler: Chase Settle		Sample: emi	Container Type and #	1 - 40z.	1 - 4oz.	1 - 40z.	1 - 4oz.	1 - 402.	1 - 40z.	1 - 40z.	1-402.	1 - 40z.	1 - 402.	1 - 4oz	1 - 4oz.	Received by:		Received by:
Chain-of-Custody Record				105 South 4th Street Artesia, NM 88210	537	@eogresources.com		☐ Level 4 (Full Validation)				Sample Request ID	WB3-F+1	WB4-2'	WB4-F	WB4-F+1'	EB3-F	EB3-F+3'	EB3-F+6'	EB3-F+9'	EB3-F+12'	EB4-F	EB4-F+3'	EB4-F+6'			ed by:
of-Cus	Client EOG Y Resources, Inc.		1.2	treet Artes	575-703-6537	Chase Se		-	5			Matrix	Soil	Soil	Soil		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Relinquished by:	1/2	Refinquished by:
hain-	EOG Y		Mailing Address:	ufh 4th S	秩	email or Fax#:	QA/QC Package:	dard	itation:		□ EDD (1ype)	Time	12:08Р	wzwr 11:44A Soll	12:11P	12:13P Soil	wan 12:19P	wan 12-21P Soil	12:24P	12:26P Soil	12:29P	12:31P Soil	мант 12:33Р	12:37Р	Time:	9:30	Time:
"ひ 、	Client		Mailing	105 Sot	Phone #	email o	OAVOC	☐ Standard	Accreditation:			Date	1/4/201	14201.	1/4201;	1/4/201	1057W	1/4/201	14/201	1/4/201	1/4/201	1,623/	1,4220	1,4220	Date:	1-11-1	Date:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly nichalted on the analytical report.

Received by OCD: 8/30/2022 11:14:03 AM

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βg	EOG Y Resources, Inc.	es, Inc.	X Standart	□ Rush		-		AN	ALY	SIS	3	80	ZAT	ANALYSIS LABORATORY	
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I NELAP	Ciner		Sample Temp	2.1	200				'd 10	-					入)
Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NG	TM + X3T8 TM + X3T8	TPH Methor	TPH (Metho	ANY) OTEB	M 8 Aମ그ମ O ,ㅋ) enoinA	OV) ROBSR	OV) 80828 Ime2) 0728			eelddu8 1A
12:39P	Soil	EB4-F+9'	1 - 4oz.	None	-095					×					
12:40		EB4-F+12'	1 - 4oz.	None	9,50-		·			×					\dashv
12:44P	P Soil	S8-F	1 - 402.	None	1007					×					_
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12:23Р	Soil	T2-10.5	1 - 4oz	None	800-			\dashv		×	\dashv		-		\dashv
12:32	mazon 12:32P Soil	T2-12.5	1 - 402.	None	660-		\Box	1		×	\dashv		$\frac{1}{2}$		\dashv
wazan 12:43P	P Soil	T2-14.5	1 - 402.	None	- 030			-		×			1	#	
1:09P		E3-14.5'	1 - 4oz.	None	120-					×					
1:26P	1	E3-16.5	1 - 40Z.	None!	-033			\dashv	1	×					\dashv
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Released to Imaging: 11/2/2022 1:53:01 PM



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 21, 2017

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: TENNECO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 03/20/17 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes are denoted by a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes are denoted by a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes are denoted by a complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are deno

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Received by OCD: 8/30/2022 11:14:03 AM

Lab Director/Quality Manager



Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

03/20/2017

Reported:

03/21/2017

Project Name: Project Number: TENNECO SWD SYSTEM

Project Location:

NONE GIVEN

NOT GIVEN

944

240

Result

128

Result

112

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

03/17/2017

Soil

** (See Notes) Tamara Oldaker

Sample ID: C1 - 20' (H700714-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyzed By: AC

Result Analyte

Reporting Limit 16.0

Analyzed 03/21/2017 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD 0.00 Qualifier

Sample ID: C1 - 25' (H700714-02)

Chloride, SM4500CI-B Analyte

mg/kg Result

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 03/21/2017 Method Blank ND

BS 416

BS

BS

416

True Value QC % Recovery

RPD 0.00

Qualifler

Sample ID: C1 - 30' (H700714-03)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AC

Analyzed 03/21/2017

Method Blank ND

% Recovery 416 104

104

True Value QC 400

400

RPD 0.00

Qualifier

Sample ID: C1 - 35' (H700714-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

03/21/2017

Method Blank

ND

% Recovery

104

True Value QC 400

RPD 0.00 Qualifier

Cardinal Laboratories

*=Accredited Analyte

paid by client for analyses. All claims, including those for negligence and PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based any other cause whatsoever shall be deemed waived unless made in writing and received by Cadinal within blidty (20) days after completion of the applicable service. In a cap other cause whatsoever shall be deemed waived unless made in writing and received by Cadinal within blidty (20) days after completion of the applicable service. In a cap of the cap of the applicable service, and the applicable service. In a cap of the cap of the applicable service, and the applicable service. In a cap of the cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service, and the applicable service. In a cap of the applicable service, and the applicable service, and the applicable service, and the applicable service services are applicable services. In a cap of the applicable service, and the applicable services are applicable services. In a cap of the applicable services are applicable services. In a cap of the applicable services are applicable services and the applicable services are applicable services. In a cap of the applicable services are applicable services are applicable services. In a cap of the applicable services are applicable services are applicable services are applicable services. In a cap of the applicable services are applicable services are applicable servi

Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liabitay and Damages. Cardinal's Babiley and clerk's exclusive remedy for any claim artising, whether based in contract or tort, shill be limited to the amount poid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, attributes or successors artising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

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March 21, 2017

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: TENNECO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 03/20/17 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

03/20/2017

Reported:

03/21/2017

Project Name:

TENNECO SWD SYSTEM

Project Number: Project Location:

Analyte

NOT GIVEN

Result

2240

Result

2080

Result

1500

Result

1540

NONE GIVEN

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

03/17/2017

Soil

** (See Notes)

Tamara Oldaker

Sample ID: C2 - 20' (H700710-01)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed

03/21/2017

Analyzed By: AC

Method Blank

ND

BS 416 % Recovery 104

104

True Value QC 400

400

400

RPD

Qualifler 3.77

Sample ID: C2 - 25' (H700710-02)

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

Analyzed

03/21/2017

Method Blank

ND

ND

ND

BS

416

True Value QC % Recovery

RPD

3.77

Qualifier

Sample ID: C2 - 30' (H700710-03)

Chloride, SM4500CI-B

Analyzed By: AC mg/kg

Analyzed

03/21/2017

Method Blank BS

416

416

True Value QC % Recovery

RPD

3.77

Qualifier

Sample ID: C2 - 35' (H700710-04)

Chloride, SM4500CI-B

mg/kg Reporting Limit

16.0

Analyzed By: AC

Analyzed 03/21/2017

BS Method Blank

% Recovery 104

104

True Value QC 400

RPD 3.77 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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All claims, including those for negligence and PLANCE POLICE LEADING WITH LAND AND ADDRESS OF LOCATION CONTROL AND ADDRESS OF LOCATION CONTRO PLEASE NOTE: Liability and Damages. Cardinal's Subdity and client's exclusive remedy for any claim a

College D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received: Reported: 03/20/2017

03/21/2017

Project Name:

TENNECO SWD SYSTEM

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

03/17/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: C2 - 40' (H700710-05)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Result

Analyzed

Method Blank ND

% Recovery BS

True Value QC

RPD

Qualifier

Chloride

1400

16.0

03/21/2017

416

104

400

3.77

Sample ID: C2 - 45' (H700710-06)

Chloride, SM4500CI-B Analyte

mg/kg

Result

48.0

Reporting Limit Analyzed

Analyzed By: AC Method Blank

BS % Recovery 416

True Value QC 400

RPD

3.77

Qualifier

Sample ID: C2 - 50' (H700710-07)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

03/21/2017

Analyzed By: AC Analyzed

Method Blank

ND

% Recovery

104

True Value QC

RPD 3.77 Qualifier

Chloride

Chloride

Chloride

32.0

Result

Result

48.0

16.0

Reporting Limit

16.0

16.0

Reporting Limit 03/21/2017

ND

BS 416

416

104

104

400

Qualifier

Sample ID: C2 - 55' (H700710-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

03/21/2017

Method Blank

ND

BS % Recovery

True Value QC

400

RPD 3.77

Cardinal Laboratories

*=Accredited Analyte

smited to the amount paid by client for analyses. PLEASE NOTE: Liability and Damages. Cardinal's Sability and client's exclusive remedy for any claim arising, whether based record refree because and unmages. Scripmas search and the search and the country and received by Cardinal within thirty (30) days after completion of the applicable service, any other cause whateover shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service, bother causes are completed on the sample source within the sample sources on a string out of or related to the source of the sample source source and the sample source source source source source and the sample source sou

Celeg D. Kee





Notes and Definitions

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ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability and Damagas. Cardonil's Bability and Clerk's extualive remody for any claim avising, whicher based in contract or tors, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitnoever shall be deemed valved unless made in writing and received by Cardinal within thiny (20) days after completion of the applicable service. In no event shall cardinal be table for incidental or consequential diamages, because whitnoever shall be deemed valved unless made in writing and received by Cardinal within thiny (20) days after completion of the applicable service. In no event shall cardinal be table for incidental or consequential diamages, and the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or etherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with ventors approval of Cardinal Laboratories.

Celeg D. Keene

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Date	Date e	3:20-17	Dale			14								FIELD CODE		100		MS.	575-748-4171	Artesia, NM 88210	105 South 4th Street	EOG Y Resources, Inc.	Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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March 21, 2017

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: TENNECO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 03/20/17 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/20/2017

Reported:

03/21/2017

Project Name:

TENNECO SWD SYSTEM

Project Number:

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

03/17/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: C3 - 20' (H700709-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Result

Analyzed

Method Blank

% Recovery

True Value QC

RPD 3.77 Qualifier

Chloride

Chloride

Chloride

Chloride

1560

Result

400

Result

208

Result

1380

16.0

16.0

Reporting Limit

16.0

Reporting Limit

16.0

03/21/2017

ND

BS 416

104

400

Sample ID: C3 - 25' (H700709-02)

Chloride, SM4500CI-B Analyte

mg/kg

Reporting Limit

Analyzed

Analyzed By: AC

Method Blank

ND

BS 416

BS

416

416

% Recovery True Value QC

RPD

3.77

Qualifier

Sample ID: C3 - 30' (H700709-03)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AC Analyzed

03/21/2017

03/21/2017

Method Blank

ND

% Recovery

104

104

104

True Value QC

400

400

RPD

3.77

Qualifler

Sample ID: C3 - 35' (H700709-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed 03/21/2017 Method Blank ND

BS % Recovery True Value QC 400

RPD 3.77 Qualifier

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or toot, shall be limited to the arms any other cause whatspersor shall be deemed velved unless made in writing and received by Cardinal within Usiny (30) days after completion of the applicable service. Industria, without limitation, business belemyptions, loss of us, or loss of pools incurred by client, its solidaries, atthitists or successors arising out of or related to the clients based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboration. arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Celeg D. Keen

Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

03/20/2017

Reported:

03/21/2017

Project Name:

TENNECO SWD SYSTEM

Project Number: Project Location:

Analyte

NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

Soll

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

03/17/2017

Sample ID: C3 - 40' (H700709-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

48.0

Result

48.0

Result

Result

16.0

Reporting Limit

03/21/2017

ND

BS 416

104

104

400

3.77

Sample ID: C3 - 45' (H700709-06)

Chloride, SM4500CI-B Analyte Chloride

mg/kg

Reporting Limit Analyzed

16.0

Analyzed By: AC

Method Blank

BS % Recovery True Value QC 400

RPD 3.77 Qualifler

Sample ID: C3 - 50' (H700709-07)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AC Analyzed

03/21/2017

ND

BS

416

% Recovery

104

RPD True Value QC

Qualifier

Chloride

16.0 80,0

Reporting Limit 03/21/2017 Method Blank ND

416

400

3.77

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardwall's liability and clerith exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the any other cause whatsoever shall be deemed waived unless made in writing and received by Cardwal within thirty (20) days after completion of the applicable service. Including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subdiduries, affiliates or successors arising out of or related to the

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5

Released to Imaging: 11/2/2022 1:53:01 PM





Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Fability and clen'ts exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed volved unless made in vesting and received by Cardinal willow UNITY (20) days after completion of the applicable service. In no event shall Cardinal be liable for incliental or consequential damages, including, whose limitation, business interruptions, loss of use, or loss of poolts incurred by client, its subsidiaries, affiliates or successors acting out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Date	Date	Date 5:20-17)E			107	575-748-4171	Artesia, NM 88210	outh 4th Street	Resources, Inc.	Settle	bs, NM 88240
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LOT:	M M						5:43 PM	5:28 PM	5:16M	~ 32h:h	4:34 PM	4:28 60	4:176	Time Sampled			e-mail:	Fax No:					FAX (505) 393
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	San	Cus	VOC	Lab										Callons (Ca, Mg, Na, K)		3		Vine A	# 12	Σ.	*	6.	
-	Sample Hand Delivered by Sampler/Client Rep by Courier 11PS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:									N	Anions (CI, SO4, Alkalinity)		TCLP:		x Standard	205-0750	7		2	П
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November 2, 2017

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Appendix E

Form C-141 Initial

Received by OCD: 8/30/2022 11:14:03 AM

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

State of New Mexico
Energy Minerals and Natural Result CONSERVATION

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

ARTESIA DISTRICT
Submit 1 Copy to appropriate District Office in DEC 0 8 2016 accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505	Sa	nta Fe	e, NM 875	05					
	e Notific	atior	and Co	rrective A	Etibb	VED			
NAB1435551041			OPERA'	TOR		☑ Initia	ıl Report	П	Final Report
Name of Company	KIK		Contact					<u> </u>	
EOG Y Resources, Inc. 35	575		Chase Settle						
104 S. 4 th Street, Artesia, NM 88210			Telephone 1 575-748-41						
Facility Name			Facility Typ	***************************************					
Tenneco SWD System (Vince BGH #1)			Pipeline Pipeline						
Surface Owner	Mineral O	wner		······································		API No			
Fee	Fee						30-	OZ	5-371
	LOCA	TIOI	N OF RE	LEASE					
, , , , , , , , , , , , , , , , , , , ,	t from the		South Line	Feet from the	East/V	West Line	County		
N 30 09S 35E					L		Lea		·····
•	Latitude <u>32</u>	2.65552	2 Longitude	<u>-104.49193</u>					
	NAT	URE	OF REL	EASE					
Type of Release Produced Water	,		Volume of 440 B/PW	Release			lecovered		
Source of Release				lour of Occurrence	ce	0 B/PW Date and	Hour of Dis	covery	,
10" Poly Line				5; 3:30 p.m.			6; 3:30 p.m		
Was Immediate Notice Given? ☑ Yes ☐ No	☐ Not Re	auired	If YES, To Kristen Ly						
By Whom?		4	Date and H						
Bob Asher			12/1/2016;	6:35 a.m.			4		
Was a Watercourse Reached? ☐ Yes ☑ No	•		If YES, Vo	olume Impacting	the Wate	ercourse.			
If a Watercourse was Impacted, Describe Fully.*			<u> </u>		*	*	· · · · · · · · · · · · · · · · · · ·		
N/A Describe Cause of Problem and Remedial Action Take	(en,*								
There was a failure of a 10" poly transfer line that can	used the relea	se.							
Describe Area Affected and Cleanup Action Taken,* and roustabout crew were dispatched to repair the tra	The release	impact	ed an approx	imate area of 212	!' X 27'	along the p	ipeline RO\	V. An	excavator
approved facility. Vertical and horizontal delineation	samples will	l be take	en and analys	is ran for TPH &	BTEX ((chlorides f	or documen	tation)	. If initial
analytical results for TPH & BTEX are under RRAL	's (site rankin	g is 0) a	a Final Repor	t, C-141 will be s	submitte	d to the OC	D requestin	g closi	ire. If the
analytical results are above the RRAL's a work plan T09S-R35E, per Trend Map), Wellhead Protection								130', 8	Section 30,
I hereby certify that the information given above is tr	ue and compl	ete to ti	he best of my	knowledge and u	understa	nd that purs	suant to NM	OCD	rules and
regulations all operators are required to report and/or	file certain re	elease n	otifications a	nd perform corre	ctive act	ions for rel	eases which	may e	ndanger
public health or the environment. The acceptance of should their operations have failed to adequately inve	a C-141 repo ≲tigate and re	rt by tre emediat	e NMOCD m e contaminat	arked as "rinal k on that nose a thi	ceport" c reat to o	round water	ieve the ope r. surface w	tator o ster hi	t Hability iman health
or the environment. In addition, NMOCD acceptance	e of a C-141 1	report d	oes not reliev	e the operator of	respons	ibility for c	ompliance v	vith an	y other
federal, state, or local laws and/or regulations.				OIL COM	ODD3	Z A TOTONI	D13/107/	2791	
				OIL CON	DEKV	ATION	NISTATOR	/	
Signature						$ \mathcal{U}$	\ //		
Printed Name: Chase Settle			Approved by	Environmental S	Specialis	st:// /	16/1		
Title: NM Adv. Environmental Representative			Approval Da	te: 12/20	116	Expiration	Date: N	A	
E-mail Address: Chase_Settle@eogresources.com		T	Conditions o	f Approval:				A	
Date; 12/8/2016 Phone: 57:	5-748-4171		Silo	Pankin	4	7 be	Attached	7	
			leten	nivel	Af	tren		11	P-4530
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November 2, 2017

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Appendix F

Form C-141 Final

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action					
	OPERATOR	☐ Initia	l Report 🔃 Final Repor		
Name of Company	Contact	·			
EOG Y Resources, Inc.	Chase Settle				
Address	Telephone No.				
104 S. 4th Street, Artesia, NM 88210	575-748-1471				
Facility Name Tenneco SWD System (Vince BGH #1)	Facility Type Pipeline				
Tellifecto SWD System (Vilice BOTT#T)	1 ipeime				
Surface Owner Mineral Own	er	API No.			
Fee Fee		30-025-	37104		
	ON OF RELEASE	[m . mv . v .]			
Unit Letter Section Township Range Feet from the No. N	orth/South Line Feet from the	East/West Line	County Lea		
Latitude 33.50109	Longitude103.40025 N	NAD83			
NATUI	RE OF RELEASE				
Type of Release	Volume of Release	Volume R	ecovered		
Produced Water	440 B/PW	0 B/PW			
Source of Release 10" Poly Line	Date and Hour of Occurrenc 11/30/2016; 3:30 p.m.		Hour of Discovery 6; 3:30 p.m.		
Was Immediate Notice Given?	If YES, To Whom?	11/30/201	о, 5.50 р.ш.		
☐ Yes ☐ No ☐ Not Requi					
By Whom?	Date and Hour				
Bob Asher	12/1/2016; 6:35 a.m.	1 337			
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting t	ne watercourse			
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* There was a failure of a 10" poly transfer line that caused the release.			***************************************		
Describe Area Affected and Cleanup Action Taken.* The release imp	acted an approximate area of 212'	X 27' along the pine	eline ROW. An excavator and		
roustabout crew were dispatched to repair the transfer line and excava	te impacted soils. Impacted soils v	vill be excavated an	d hauled to a NMOCD		
approved facility. Vertical and horizontal delineation samples will be					
analytical results for TPH & BTEX are under RRAL's (site ranking is					
analytical results are above the RRAL's a work plan will be submitted T09S-R35E, per NMOSE), Wellhead Protection Area: No, Distance					
of the NMOCD approved work plan (May 18, 2017), EOG Y Reso			3 15 6. Dasca on completion		
I hereby certify that the information given above is true and complete	to the best of my knowledge and u	nderstand that pursu			
regulations all operators are required to report and/or file certain relea					
public health or the environment. The acceptance of a C-141 report be should their operations have failed to adequately investigate and reme					
or the environment. In addition, NMOCD acceptance of a C-141 repo					
federal, state, or local laws and/or regulations.	uoco o u op uvo. o	coponicionity for co	mprance was any other		
00	OIL CONS	SERVATION	DIVISION		
Simulation (1) San					
Signature:	-				
Printed Name: Chase Settle	Approved by Environmental Sp	pecialist:	***************************************		
Title: Safety & Environmental Representative II	Approval Date:	Expiration D	Pate:		
E-mail Address: Chase_Settle@eogresources.com	Conditions of Approval:		Attached		
Date: November 2, 2017 Phone: 575-748-1471	12001100				
Attach Additional Sheets If Necessary		·	<u> </u>		
,					

From: Yu, Olivia, EMNRD
To: Chase Settle

Subject: Automatic reply: Tenneco SWD System (Vince BGH #1) Closure Report 1RP-4530

Date: Thursday, November 2, 2017 2:40:48 PM

External email. Use caution.

I will be out of the office from November 2-13.

Tenneco SWD System (Vince BGH #1) Closure Report #nAB1635557047



August 28, 2022

Appendix D Current C-141 Closure

energy opportunity growth

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	nAB1635557047
District RP	1RP-4530
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party EOG	Resources, I	nc.		OGRID 7	
Contact Nan	^{ne} Chase	Settle				Telephone 575-748-1471
Contact ema	^{il} Chase_	Settle@eogre	sources.com		Incident #	# (assigned by OCD) nAB1635557047
Contact mail	ling address	104 S. 4th Str	eet, Artesia,	NM 8	8210	
					Release So	Source
Latitude 33	.50109		(NAD 83 in de	ecimal de	Longitude _egrees to 5 decin	-103.40025 imal places)
Site Name To	enneco S	WD System (Vince BGH #	1)	Site Type	Pipeline
Date Release	Discovered	11/30/2016			API# (if app	pplicable) 30-025-37104
	•			1		
Unit Letter	Section	Township	Range	1.	Cour	inty
N	30	9S	35E	Lea		
Surface Owne		Federal Tr	Nature an	d Vo	lume of l	
Crude Oi	1	Volume Release	ed (bbls)		•	Volume Recovered (bbls)
✓ Produced	Water	Volume Release	ed (bbls) 440			Volume Recovered (bbls) 0
		Is the concentrate produced water	tion of dissolved >10,000 mg/l?	chlorid	e in the	✓ Yes □ No
Condensa	ite	Volume Release	ed (bbls)			Volume Recovered (bbls)
☐ Natural C	das	Volume Release	ed (Mcf)			Volume Recovered (Mcf)
Other (de	scribe)	Volume/Weight	Released (provid	le units)	Volume/Weight Recovered (provide units)
Cause of Rel	^{ease} Pleas	se refer to the	original C-14	1 for	details of	1RP-4530.

73			1 4	40
Dana	,,,	60	+ 1	1 2
Page	,,,	v v	, ,	10

Incident ID	nAB1635557047
District RP	1RP-4530
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	
release as defined by 19.15.29.7(A) NMAC?	Volume released was greater th	an 25 barreis.
☑ Yes ☐ No		
	otice given to the OCD? By whom? To which, by Bob Asher through email o	nom? When and by what means (phone, email, etc)?
res, to Kristeri Lyric	on, by bob Asher through email o	11 12/1/2010.
	Initial R	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
✓ The source of the rele	ease has been stopped.	
	as been secured to protect human health and	the environment.
	-	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release noti	fications and perform corrective actions for releases which may endanger
failed to adequately investig	ate and remediate contamination that pose a thre	OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Printed Name: Chase S	Settle	Title: Rep Safety & Environmental Sr
	Settle	
	@eogresources.com	Telephone: 575-748-1471
Cinain	<u> </u>	retephone.
OCD O		
OCD Only		
Received by:		Date:

Page 117 of 118

	1 180 11. 0) 1.
Incident ID	nAB1635557047
District RP	1RP-4530
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 must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C 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 certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regul restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr
Signature: <u>Chase Settle</u>	Date: 08/28/2022
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471
OCD Only	
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible //or regulations.
Closure Approved by: Itam Hall	Date:11/2/2022
Printed Name: Brittany Hall	Title: Environmental Specialist

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 139404

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	139404
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create By		Condition Date
bhal	I None	11/2/2022