Seven Rivers Compressor Station Soil Data Table

Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT DRO	Total TPH	Chlorides
H703606- 01	0'-5' Composite	12/26/17	<0.050	<0.050	<0.050	0.978	0.978	40.6	332	116	488.6	-
H703607- 01	0'-5' Composite	12/26/17	<0.050	<0.050	<0.050	0.949	0.949	34.3	289	119	442.3	-
H800064- 01	Initial Exc Composite A	01/03/18	<0.500	1.40	4.02	31.6	37.0	235	330	79.8	644.8	-
H800064- 02	Initial Exc Composite B	01/03/18	<0.500	2.77	6.89	61.9	71.5	316	285	68.9	669.9	-
H800064- 03	Initial Exc Composite C	01/03/18	<0.500	4.00	9.85	78.4	92.3	405	320	79.3	804.3	-
H800175- 01	Cool-Ox Treatment Composite	01/15/18	<0.050	1.11	3.04	23.7	27.8	52.3	31.2	<10.0	83.5	-

Soil samples collected 12/26/2017 were done by the 5-point composite method at a multitude of depths for each sample hole to get a truly representative sample of the soil. Samples were collected after the first 5' of soil was removed from the treatment area. These sample analytical results are H703606-01 and H703607-01.

Soil samples collected 01/03/2018 were completed as soil that was excavated was moved to the treatment cell. With each bucket of material that was transferred to the cell, a sample was collected to create composite samples of the soil prior to treatment with Cool-Ox. H800064-01 consisted of soil from approximately 5' bgs to 8' bgs. H800064-02 consisted of soil from approximately 8' bgs to 11' bgs. H800064-03 consisted of soil from approximately 11' bgs to 13' bgs.

H800175-01 was collected by way of a 5-point composite sample. This soil was treated with Cool-Ox on 01/04/2018, the soil was not dry enough to sample until 01/15/2018. 5 sample points within the treatment cell were sampled from surface to the liner at approximately 6 inch intervals, providing for an accurate sample of the treated soil.



December 28, 2017

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

RE: SEVEN RIVERS COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/27/17 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred 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. 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



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

Received:

12/27/2017

12/28/2017

Sampling Date:

12/26/2017

Reported: Project Name:

SEVEN RIVERS COMPRESSOR STATION

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

SEVEN RIVERS COMPRESSOR STATION

# Sample ID: 0-5' COMPOSITE (H703606-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2017	ND	2.10	105	2.00	1.37	
Toluene*	<0.050	0.050	12/28/2017	ND	2.04	102	2.00	0.344	
Ethylbenzene*	<0.050	0.050	12/28/2017	ND	1.99	99.6	2.00	0.767	
Total Xylenes*	0.978	0.150	12/28/2017	ND	6.09	102	6.00	0.976	
Total BTEX	0.978	0.300	12/28/2017	ND		-,			
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 72-148							
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	40.6	10.0	12/28/2017	ND	206	103	200	7.68	
DRO >C10-C28*	332	10.0	12/28/2017	ND	188	94.1	200	8.62	
EXT DRO >C28-C36	116	10.0	12/28/2017	ND					
Surrogate: 1-Chlorooctane	84.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	82.0	% 34.7-15	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy 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 waived 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, affiliates or successors arising 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,

Celeg D. Keine



ND

#### **Notes and Definitions**

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Relinquished by:	Relinquished by:		Checia mondio.	Special Instructions:									/ 0-5" Composite			ORDER#: 15	(lab use only)		Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	
	Date	MC 1/17 Date	Date		TPH Extended Report						A STATE OF THE STA			0		FIELD CODE	20/00			ture:	575-748-4171	Artesia, NM 88210	ess: 105 South 4th Street	e EOG Y Resources Inc.	SI. Cilase Seme
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December 28, 2017

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

RE: SEVEN RIVERS COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/27/17 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred 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.

Celeg 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



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

Received:

12/27/2017

Sampling Date:

12/26/2017

Reported:

12/28/2017

Sampling Type:

Soil

Project Name:

SEVEN RIVERS COMPRESSOR STATION

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

SEVEN RIVERS COMPRESSOR STATION

#### Sample ID: 0-5' COMPOSITE (H703607-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2017	ND	2.10	105	2.00	1.37	
Toluene*	<0.050	0.050	12/28/2017	ND	2.04	102	2.00	0.344	
Ethylbenzene*	<0.050	0.050	12/28/2017	ND	1.99	99.6	2.00	0.767	
Total Xylenes*	0.949	0.150	12/28/2017	ND	6.09	102	6.00	0.976	
Total BTEX	0.949	0.300	12/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112	% 72-148							
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	34.3	10.0	12/28/2017	ND	206	103	200	7.68	
DRO >C10-C28*	289	10.0	12/28/2017	ND	188	94.1	200	8.62	
EXT DRO >C28-C36	119	10.0	12/28/2017	ND					
Surrogate: 1-Chlorooctane	90.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	90.6	% 34.7-15	7						

# Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



ND

#### **Notes and Definitions**

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine

	Relinquished by:	Relinquished by:	Ne midwhed of	Dolinarion	Special Instructions:									/ 0-5' Composite	LAB # (lab use only) FIELD CODE	111000	ORDER# 11000	(lab use only)	sampler signature:			City/State/Zip: Ar	Company Address: 105 South 4th Street	Company Name EC	- 7	ARDINAL LABO
	Date	Date	Date E/E7/17		TPH Extended Report										ODE	The state of the s	J			0/3-/48-41/7		Artesia, NM 88210	5 South 4th Street	EOG Y Resources Inc.	Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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3					7			27							indard TAT	5				S					Page	e 4 of 4



January 09, 2018

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

RE: SEVEN RIVERS COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 01/08/18 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred 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.

Celeg 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



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

Fax To:

(575) 748-4131

Received:

01/08/2018

Sampling Date:

01/03/2018

Reported:

01/09/2018

Sampling Type:

Soil

Project Name:

SEVEN RIVERS COMPRESSOR STATION

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Tamara Oldaker

NONE GIVEN

Project Location: SEVEN RIVERS COMPRESSOR STATION

Sample ID: INITIAL -A (H800064-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/09/2018	ND	2.01	100	2.00	0.0569	
Toluene*	1.40	0.500	01/09/2018	ND	1.98	99.0	2.00	1.03	
Ethylbenzene*	4.02	0.500	01/09/2018	ND	1.95	97.7	2.00	0.314	
Total Xylenes*	31.6	1.50	01/09/2018	ND	6.06	101	6.00	0.168	
Total BTEX	37.0	3.00	01/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 72-148	}						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	235	10.0	01/08/2018	ND	185	92.7	200	3.12	
DRO >C10-C28*	330	10.0	01/08/2018	ND	181	90.5	200	1.73	
EXT DRO >C28-C36	79.8	10.0	01/08/2018	ND					
Surrogate: 1-Chlorooctane	92.9	% 28.3-16	4						1
Surrogate: 1-Chlorooctadecane	86.6	% 34.7-15	7						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keene



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

Received: Reported: 01/08/2018

01/09/2018

SEVEN RIVERS COMPRESSOR STATION

Project Number: Project Location:

Project Name:

NONE GIVEN

SEVEN RIVERS COMPRESSOR STATION

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

01/03/2018

Tamara Oldaker

Sample ID: INITIAL -B (H800064-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/09/2018	ND	2.01	100	2.00	0.0569	
Toluene*	2.77	0.500	01/09/2018	ND	1.98	99.0	2.00	1.03	
Ethylbenzene*	6.89	0.500	01/09/2018	ND	1.95	97.7	2.00	0.314	
Total Xylenes*	61.9	1.50	01/09/2018	ND	6.06	101	6.00	0.168	
Total BTEX	71.5	3.00	01/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 9	% 72-148	}						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	316	10.0	01/08/2018	ND	185	92.7	200	3.12	
DRO >C10-C28*	285	10.0	01/08/2018	ND	181	90.5	200	1.73	
EXT DRO >C28-C36	68.9	10.0	01/08/2018	ND					
Surrogate: 1-Chlorooctane	91.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.0	% 34.7-15	7						

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

Fax To:

(575) 748-4131

Received:

01/08/2018

Sampling Date:

01/03/2018

Reported:

Soil

Project Name:

01/09/2018

Sampling Type:

SEVEN RIVERS COMPRESSOR STATION

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

SEVEN RIVERS COMPRESSOR STATION

### **Sample ID: INITIAL -C (H800064-03)**

BTEX 8021B	mg	/kg	Analyze	d By: MS			)		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/09/2018	ND	2.01	100	2.00	0.0569	
Toluene*	4.00	0.500	01/09/2018	ND	1.98	99.0	2.00	1.03	9
Ethylbenzene*	9.85	0.500	01/09/2018	ND	1.95	97.7	2.00	0.314	
Total Xylenes*	78.4	1.50	01/09/2018	ND	6.06	101	6.00	0.168	
Total BTEX	92.3	3.00	01/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 9	% 72-148	!						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	405	10.0	01/08/2018	ND	185	92.7	200	3.12	
DRO >C10-C28*	320	10.0	01/08/2018	ND	181	90.5	200	1.73	
EXT DRO >C28-C36	79.3	10.0	01/08/2018	ND					
Surrogate: 1-Chlorooctane	99.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.0	% 34.7-15	7						

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Celeg D. Keene



#### **Notes and Definitions**

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

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Celey D. Keine

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January 17, 2018

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

RE: SEVEN RIVERS COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 01/16/18 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene



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

Received:

01/16/2018

Sampling Date:

01/15/2018

Reported:

01/17/2018

Sampling Type:

Soil

Project Name:

SEVEN RIVERS COMPRESSOR STATION

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

SEVEN RIVERS COMPRESSOR STATION

# **Sample ID: 1-T COMPOSITE (H800175-01)**

BTEX 8021B	mg	'L	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier,
Benzene*	<0.050	0.050	01/17/2018	ND	2.03	101	2.00	1.66	
Toluene*	1.11	0.050	01/17/2018	ND	2.04	102	2.00	1.56	
Ethylbenzene*	3.04	0.050	01/17/2018	ND	2.05	103	2.00	1.44	
Total Xylenes*	23.7	0.150	01/17/2018	ND	6.31	105	6.00	1.88	
Total BTEX	27.8	0.300	01/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	173	% 81.3-12	8						
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	52.3	10.0	01/17/2018	ND	229	114	200	0.0512	
DRO >C10-C28*	31.2	10.0	01/17/2018	ND	228	114	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	01/17/2018	ND					
Surrogate: 1-Chlorooctane	86.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	78.0	% 37.6-14	7						

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\*=Accredited Analyte

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#### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 SM4500Cl-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

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