

Appendix D

Laboratory Soil Data



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

May 13, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 05/08/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 1- SUR (H901678-01)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49		
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	944	16.0	05/13/2019	ND	400	100	400	0.00			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05		
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND						

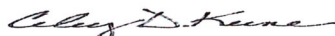
Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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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: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 1- 6" (H901678-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49	
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	36.6	10.0	05/10/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND					

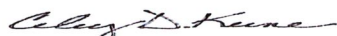
Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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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: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 2 - 1' (H901678-03)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49	
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/13/2019	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND					

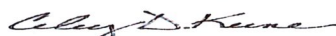
Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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*=Accredited Analyte

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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: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 2 - 2' (H901678-04)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49		
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	704	16.0	05/13/2019	ND	400	100	400	0.00			

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05		
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND						

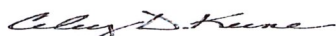
Surrogate: 1-Chlorooctane 93.2 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 2 - 3' (H901678-05)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49		
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PII) 101 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	848	16.0	05/13/2019	ND	400	100	400	0.00			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05		
DRO >C10-C28*	367	10.0	05/10/2019	ND	208	104	200	2.86		
EXT DRO >C28-C36	173	10.0	05/10/2019	ND						

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 133 % 37.6-147

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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: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 2 - 4' (H901678-06)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49		
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	384	16.0	05/13/2019	ND	400	100	400	0.00			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05		
DRO >C10-C28*	607	10.0	05/10/2019	ND	208	104	200	2.86		
EXT DRO >C28-C36	222	10.0	05/10/2019	ND						

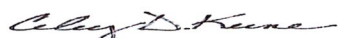
Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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* = Accredited Analyte

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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: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 3 - 1' (H901678-07)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49		
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	160	16.0	05/13/2019	ND	400	100	400	0.00			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05		
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND						

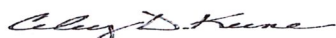
Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 3 - 2' (H901678-08)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49		
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PII) 101 % 73.3-129

Chloride, SM4500CI-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	128	16.0	05/13/2019	ND	400	100	400	0.00			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05		
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND						


Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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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: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 3 - 3' (H901678-09)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49	
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND					

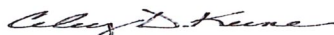
Surrogate: 1-Chlorooctane 99.0 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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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: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 4 - 1' (H901678-10)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49		
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIB) 103 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1100	16.0	05/13/2019	ND	432	108	400	0.00			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05		
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND						

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Analytical Results For:

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

 Received: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 4 - 1.5' (H901678-11)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49	
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND					

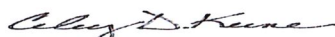
Surrogate: 1-Chlorooctane 92.8 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Analytical Results For:

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

Received: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 5 - 1' (H901678-12)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49		
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/13/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05		
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND						


Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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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: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 5 - 2' (H901678-13)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49	
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND					

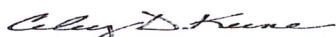
Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Analytical Results For:

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

Received: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 5 - 3' (H901678-14)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49		
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	05/13/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2019	ND	170	84.8	200	1.05		
DRO >C10-C28*	<10.0	10.0	05/10/2019	ND	208	104	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	05/10/2019	ND						


Surrogate: 1-Chlorooctane 95.4 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Analytical Results For:

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

Received: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 6 - 1' (H901678-15)

BTEX 8021B			mg/kg						
			Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49	
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

Chloride, SM4500Cl-B			mg/kg						
			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M			mg/kg						
			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/11/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND					

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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

Received: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 6 - 1.5' (H901678-16)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2019	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	05/10/2019	ND	2.18	109	2.00	5.49	
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.07	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.29	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/11/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND					

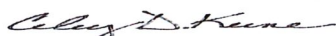
Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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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: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 7 - 6" (H901678-17)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2019	ND	2.00	99.9	2.00	0.259	
Toluene*	<0.050	0.050	05/10/2019	ND	2.11	105	2.00	0.178	
Ethylbenzene*	<0.050	0.050	05/10/2019	ND	2.04	102	2.00	0.269	
Total Xylenes*	<0.150	0.150	05/10/2019	ND	6.21	104	6.00	0.533	
Total BTEX	<0.300	0.300	05/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/11/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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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: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 8 - SUR (H901678-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99	
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21	
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565	QR-03
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63	
Total BTEX	<0.300	0.300	05/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 96.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/11/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND					

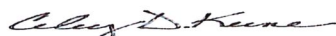
Surrogate: 1-Chlorooctane 86.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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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: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 9 - SUR (H901678-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99	
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21	
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565	
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63	
Total BTEX	<0.300	0.300	05/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	170	84.8	200	1.05	
DRO >C10-C28*	17.7	10.0	05/11/2019	ND	208	104	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND					


Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

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

Received: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 10 - SUR (H901678-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99	
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21	
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565	
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63	
Total BTEX	<0.300	0.300	05/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	206	103	200	8.80	
DRO >C10-C28*	23.8	10.0	05/11/2019	ND	193	96.3	200	10.6	
EXT DRO >C28-C36	23.5	10.0	05/11/2019	ND					

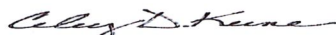
Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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

 Received: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 11 - SUR (H901678-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99	
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21	
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565	
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63	
Total BTEX	<0.300	0.300	05/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 88.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27200	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	206	103	200	8.80	
DRO >C10-C28*	<10.0	10.0	05/11/2019	ND	193	96.3	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND					

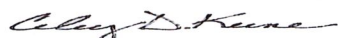
Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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Analytical Results For:

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

 Received: 05/08/2019
 Reported: 05/13/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 12 - SUR (H901678-22)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99	
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21	
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565	
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63	
Total BTEX	<0.300	0.300	05/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 90.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	206	103	200	8.80	
DRO >C10-C28*	<10.0	10.0	05/11/2019	ND	193	96.3	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND					

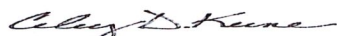
Surrogate: 1-Chlorooctane 97.6 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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

Received: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 13 - SUR (H901678-23)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99		
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21		
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565		
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63		
Total BTEX	<0.300	0.300	05/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 91.5 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	480	16.0	05/13/2019	ND	432	108	400	0.00			

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	206	103	200	8.80		
DRO >C10-C28*	<10.0	10.0	05/11/2019	ND	193	96.3	200	10.6		
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND						

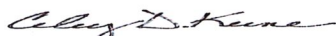
Surrogate: 1-Chlorooctane 99.8 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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

Received: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 14 - SUR (H901678-24)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99	
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21	
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565	
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63	
Total BTEX	<0.300	0.300	05/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 96.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	206	103	200	8.80	
DRO >C10-C28*	<10.0	10.0	05/11/2019	ND	193	96.3	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND					

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Analytical Results For:

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

Received: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 15 - SUR (H901678-25)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99		
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21		
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565		
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63		
Total BTEX	<0.300	0.300	05/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 87.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	288	16.0	05/13/2019	ND	432	108	400	0.00			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	206	103	200	8.80		
DRO >C10-C28*	<10.0	10.0	05/11/2019	ND	193	96.3	200	10.6		
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND						

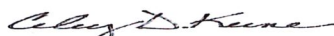
Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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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:	05/08/2019	Sampling Date:	05/07/2019
Reported:	05/13/2019	Sampling Type:	Soil
Project Name:	MIMOSA FEDERAL SWD #3Y	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MIMOSA FEDERAL SWD #3Y		

Sample ID: V 16 - SUR (H901678-26)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99		
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21		
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565		
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63		
Total BTEX	<0.300	0.300	05/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 91.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	206	103	200	8.80	
DRO >C10-C28*	30.3	10.0	05/11/2019	ND	193	96.3	200	10.6	
EXT DRO >C28-C36	25.6	10.0	05/11/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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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: 05/08/2019
Reported: 05/13/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 17 - SUR (H901678-27)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99	
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21	
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565	
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63	
Total BTEX	<0.300	0.300	05/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/13/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	206	103	200	8.80	
DRO >C10-C28*	10.3	10.0	05/11/2019	ND	193	96.3	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	05/11/2019	ND					

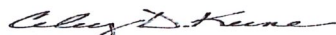
Surrogate: 1-Chlorooctane 97.4 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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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:	05/08/2019	Sampling Date:	05/07/2019
Reported:	05/13/2019	Sampling Type:	Soil
Project Name:	MIMOSA FEDERAL SWD #3Y	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MIMOSA FEDERAL SWD #3Y		

Sample ID: V 18 - SUR (H901678-28)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/11/2019	ND	1.87	93.5	2.00	1.99		
Toluene*	<0.050	0.050	05/11/2019	ND	2.23	112	2.00	1.21		
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.39	120	2.00	0.565		
Total Xylenes*	<0.150	0.150	05/11/2019	ND	6.93	116	6.00	1.63		
Total BTEX	<0.300	0.300	05/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 91.3 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	05/13/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2019	ND	206	103	200	8.80	
DRO >C10-C28*	52.9	10.0	05/11/2019	ND	193	96.3	200	10.6	
EXT DRO >C28-C36	61.6	10.0	05/11/2019	ND					

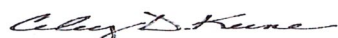
Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

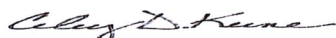
Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Name: EOG Y Resources Inc.

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-1471

Sampler Signature: *[Signature]*

e-mail: Chase.Settle@eogresources.com

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Mimosa Federal SWD #3Y

Project #:

Project Loc: Mimosa Federal SWD #3Y

PO #: 205-0750

(lab use only)

ORDER #: H901678

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers	Matrix	TPH: 8015B	TPH: TX 1005	TPH: TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX: 8021B	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	V1-SUR			5/7/2019	8:15 AM		1	X		S	X														X
2	V1-6"			5/7/2019	8:19 AM		1	X		S	X														X
3	V2-1'			5/7/2019	8:21 AM		1	X		S	X														X
4	V2-2'			5/7/2019	8:23 AM		1	X		S	X														X
5	V2-3'			5/7/2019	8:25 AM		1	X		S	X														X
6	V2-4'			5/7/2019	8:26 AM		1	X		S	X														X
7	V3-1'			5/7/2019	8:42 AM		1	X		S	X														X
8	V3-2'			5/7/2019	8:43 AM		1	X		S	X														X
9	V3-3'			5/7/2019	8:45 AM		1	X		S	X														X
10	V4-1'			5/7/2019	8:52 AM		1	X		S	X														X

Special Instructions: **TPH EXTENDED needed.**

Relinquished by: *[Signature]* Date: 5-8-19 Time: 11:45 Received by: *[Signature]* Date: 5-8-19 Time: 14:00

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Temperature Upon Receipt: 26.497 °C

by Sampler/Client Rep. ? UPS DHL FedEx Lone Star

Sample Containers Intact? ☒ VOCs Free of Headspace? ☒ Labels on container(s) ☒ Custody seals on container(s) ☒ Custody seals on cooler(s) ☒ Sample Hand Delivered ☒ by Courier? ☒

83 jo 26 gbaD



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Name: EOG Y Resources Inc.

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-1471

Sampler Signature: *[Signature]*

Fax No:

e-mail: Chase.Settle@eogresources.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205-0750

Project Name: Mimosa Federal SWD #3Y

Project #:

Project Loc: Mimosa Federal SWD #3Y

(lab use only)

ORDER #: H901678

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix	TPH: 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX: 8021B	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pro-Schedule) 24, 48, 72 hrs	Standard TAT
11	V4-1.5'			5/7/2019	8:57 AM		1	X								S	S	X														X
12	V5-1'			5/7/2019	9:01 AM		1	X								S	S	X														X
13	V5-2'			5/7/2019	9:02 AM		1	X								S	S	X														X
14	V5-3'			5/7/2019	9:06 AM		1	X								S	S	X														X
15	V6-1'			5/7/2019	9:11 AM		1	X								S	S	X														X
16	V6-1.5'			5/7/2019	9:16 AM		1	X								S	S	X														X
17	V7-6"			5/7/2019	9:26 AM		1	X								S	S	X														X
18	V8-SUR			5/7/2019	10:06 AM		1	X								S	S	X														X
19	V9-SUR			5/7/2019	10:08 AM		1	X								S	S	X														X
20	V10-SUR			5/7/2019	10:09 AM		1	X								S	S	X														X

Special Instructions:

TPH EXTENDED needed.

Relinquished by:

Date: 5-8-19

Time: 11:45

Received by:

Date: 5-8-19

Time: 14:00

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Temperature Upon Receipt:

2.6°C

#977

Laboratory Comments:

Sample Containers Intact? ☒ Y ☐ N
VOCs Free of Headspace? ☒ Y ☐ N
Labels on container(s) ☒ Y ☐ N
Custody seals on container(s) ☒ Y ☐ N
Sample Hand Delivered ☒ Y ☐ N
by Sampler/Client Rep. ? ☒ Y ☐ N
by Courier? ☒ Y ☐ N
UPS ☒ Y ☐ N
DHL ☒ Y ☐ N
FedEx ☒ Y ☐ N
Lone Star ☒ Y ☐ N

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Mimosa Federal SWD #3Y

Project#:

Mimosa Federal SVD #3Y

PO #: 205-0750

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: Chase.Settle@geogresources.com

ORDER #:

[illegible]



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

June 10, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 06/03/19 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Caley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Caley 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: 06/03/2019
 Reported: 06/10/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 1- 8" (H901938-01)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34		
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16		
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01		
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66		
Total BTEX	<0.300	0.300	06/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	128	16.0	06/06/2019	ND	384	96.0	400	0.00			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2019	ND	196	98.0	200	1.36		
DRO >C10-C28*	<10.0	10.0	06/05/2019	ND	194	97.1	200	2.48		
EXT DRO >C28-C36	<10.0	10.0	06/05/2019	ND						

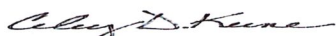
Surrogate: 1-Chlorooctane 96.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.3 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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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: 06/03/2019
 Reported: 06/10/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 2-4' (H901938-02)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PII) 103 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2019	ND	196	98.0	200	1.36	
DRO >C10-C28*	903	10.0	06/05/2019	ND	194	97.1	200	2.48	
EXT DRO >C28-C36	338	10.0	06/05/2019	ND					

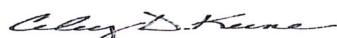
Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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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: 06/03/2019
 Reported: 06/10/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 4-1.5' (H901938-03)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2019	ND	196	98.0	200	1.36	
DRO >C10-C28*	35.5	10.0	06/05/2019	ND	194	97.1	200	2.48	
EXT DRO >C28-C36	37.6	10.0	06/05/2019	ND					

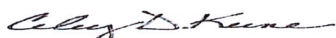
Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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*—Accredited Analyte

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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: 06/03/2019
Reported: 06/10/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/30/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 5-4' (H901938-04)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PII) 101 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2019	ND	196	98.0	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/05/2019	ND	194	97.1	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2019	ND					

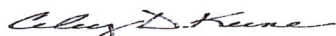
Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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*=Accredited Analyte

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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: 06/03/2019
 Reported: 06/10/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 7- 6" (H901938-05)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.2 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2019	ND	196	98.0	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/05/2019	ND	194	97.1	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2019	ND					

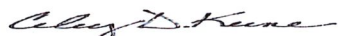
Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

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Analytical Results For:

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

 Received: 06/03/2019
 Reported: 06/10/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 8- 3" (H901938-06)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PII) 99.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2019	ND	196	98.0	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/05/2019	ND	194	97.1	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2019	ND					

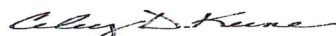
Surrogate: 1-Chlorooctane 99.1 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

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

Received: 06/03/2019
Reported: 06/10/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/30/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 9- 3" (H901938-07)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2019	ND	196	98.0	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/05/2019	ND	194	97.1	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2019	ND					

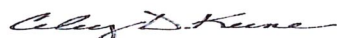
Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.9 % 37.6-147

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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: 06/03/2019
Reported: 06/10/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/30/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 10- 3" (H901938-08)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PII) 102 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2019	ND	196	98.0	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/05/2019	ND	194	97.1	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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

Received: 06/03/2019
Reported: 06/10/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/30/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 11- 3" (H901938-09)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2019	ND	190	95.1	200	0.984	
DRO >C10-C28*	<10.0	10.0	06/04/2019	ND	189	94.4	200	0.991	
EXT DRO >C28-C36	<10.0	10.0	06/04/2019	ND					

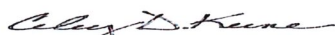
Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

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

 Received: 06/03/2019
 Reported: 06/10/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 05/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 12- 3" (H901938-10)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2019	ND	190	95.1	200	0.984	
DRO >C10-C28*	<10.0	10.0	06/04/2019	ND	189	94.4	200	0.991	
EXT DRO >C28-C36	<10.0	10.0	06/04/2019	ND					

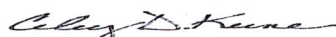
Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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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: 06/03/2019
Reported: 06/10/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 05/30/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 18- 3" (H901938-11)

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.34	
Toluene*	<0.050	0.050	06/07/2019	ND	1.89	94.5	2.00	4.16	
Ethylbenzene*	<0.050	0.050	06/07/2019	ND	1.78	88.8	2.00	5.01	
Total Xylenes*	<0.150	0.150	06/07/2019	ND	5.40	90.0	6.00	5.66	
Total BTEX	<0.300	0.300	06/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/06/2019	ND	384	96.0	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2019	ND	190	95.1	200	0.984	
DRO >C10-C28*	<10.0	10.0	06/04/2019	ND	189	94.4	200	0.991	
EXT DRO >C28-C36	<10.0	10.0	06/04/2019	ND					

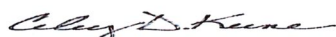
Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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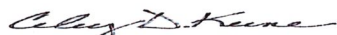
Notes and Definitions

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 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

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Celey D. Keene, Lab Director/Quality Manager



(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Mimosa Federal SWD #3Y

Project #:

Project Loc:

Mimosa Federal SWD #3Y

PO #: 205-0750

Fax No.:

Report Format:

☐ Standard

□ TRRP

☐ NPDES

e-mail:

Chase Settle@eogresources.com

ORDER #: 4901938

Analyze For:

LAB # (lab use only)					
ORDER #: H901938					
LAB # (lab use only)					
FIELD CODE					
Beginning Depth					
Ending Depth					
Date Sampled					
Time Sampled					
Field Filtered					
Total #. of Containers					
Ice					
HNO ₃					
HCl					
H ₂ SO ₄					
NaOH					
Na ₂ S ₂ O ₃					
None					
Other (Specify)					
DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other					
TPH: 8015B					
TPH: TX 1005 TX 1006					
Cations (Ca, Mg, Na, K)					
Anions (Cl, SO ₄ , Alkalinity)					
SAR / ESP / CEC					
Metals: As Ag Ba Cd Cr Pb Hg Se					
Volatiles					
Semivolatiles					
BTEX: 8021B					
RCI					
N.O.R.M.					
Chlorides					
SAR					
RUSH TAT (Pre-Schedule) 24, 40, 72 hrs					
Standard TAT					
V1-8"		5/30/2019	8:28 AM	1	X
V2-4'		5/30/2019	8:36 AM	1	X
V4-1.5'		5/30/2019	8:39 AM	1	X
V5-4'		5/30/2019	8:42 AM	1	X
V7-6"		5/30/2019	8:46 AM	1	X
V8-3"		5/30/2019	8:51 AM	1	X
V9-3"		5/30/2019	8:53 AM	1	X
V10-3"		5/30/2019	8:55 AM	1	X
V11-3"		5/30/2019	9:00 AM	1	X
V12-3"		5/30/2019	9:02 AM	1	X
Special Instructions:					
TPH EXTENDED needed.					
Relinquished by:					
Date	Time	Received by:	Date	Time	
6-5-19	11:30	Juanita Delgado	6-3-19	11:30	
Relinquished by:					
Date	Time	Received by ELDT:	Date	Time	
Temperature Upon Receipt:					
Sample Containers Intact?					
VOCs Free of Headspace?					
Labels on container(s)					
Custody seals on cooler(s)					
Custody seals on container(s)					
Sample Hand Delivered					
by Sampler/Client Rep. ?					
by Courier? UPS DHL FedEx Lone Star					

(505) 393-2326 FAX (505) 303-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ORDER#

Chase Settle@eogresources.com

[illegible]