

Appendix DLaboratory Soil Data



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.qov/field/qa/lab 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. 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

Lab Director/Quality Manager



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

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:

Sample Received By:

Tamara Oldaker

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-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	Analyze	d By: MS	1				
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 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keene



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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:

Sample Received By:

Tamara Oldaker

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

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

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	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 (PIL	101 :	% 73.3-12	9						
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	Analyze	d 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 9	% 37.6-14	7						

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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 Number:
Project Location:

MIMOSA FEDERAL SWD #3Y

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

BTEX 8021B	mg	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	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 (PIL	99.8	% 73.3-12	9						
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	Analyze	d 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 9	6 37.6-14	7						

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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

Sampling Date:

05/07/2019

Reported:

05/13/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number: Project Location: NOT GIVEN

MIMOSA FEDERAL SWD #3Y

Sample Received By:

Tamara Oldaker

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

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	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 (PIL	103 %	6 73.3-12	9						
Chloride, SM4500CI-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	Analyze	d 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 9	6 41-142							
Surrogate: 1-Chlorooctadecane	1149	37.6-14	7						

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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 2 - 3' (H901678-05)

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	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 (PIL	101 :	% 73.3-12	9						4
Chloride, SM4500CI-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	Analyze	d 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 9	% 37.6-14	7						

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

Гах

Received: 05/08/2019 Reported: 05/13/2019

MIMOSA FEDERAL SWD #3Y

Project Name: Project Number:

NOT GIVEN

Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date:

05/07/2019

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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	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 (PIL	103 %	% 73.3-12	9						
Chloride, SM4500CI-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	Analyze	d 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 9	% 41-142		2.					
Surrogate: 1-Chlorooctadecane	125 9	6 37.6-14	7						

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

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 3 - 1' (H901678-07)

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	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 (PIL	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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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:

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	101 9	% 73.3-12	9						
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	Analyze	d 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	ı						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keene



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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

Cool & Intact

Project Number:

Sampling Condition:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	104 %	6 73.3-12	9						
Chloride, SM4500CI-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	Analyze	d 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 9	6 41-142							
Surrogate: 1-Chlorooctadecane	120 %	37.6-14	7						

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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

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 4 - 1' (H901678-10)

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	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 (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AC		1			
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	Analyze	d 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	ĺ	N.					
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

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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:

Sample Received By:

Tamara Oldaker

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

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

BTEX 8021B	mg	/kg	Analyze	ed 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 (PIL	101	% 73.3-12	9					8 2	
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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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: Project Location: NOT GIVEN

N

MIMOSA FEDERAL SWD #3Y

Sample Received By:

Tamara Oldaker

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

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	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 (PIL	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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05/13/2019 Reported:

Project Name: MIMOSA FEDERAL SWD #3Y

05/08/2019

Project Number: **NOT GIVEN**

MIMOSA FEDERAL SWD #3Y Project Location:

Sampling Date:

05/07/2019 Sampling Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

Received:

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 (PIL	102 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 37.6-14	7						

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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 5 - 3' (H901678-14)

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	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 (PIL	101 9	6 73.3-12	9	8.					
Chloride, SM4500Cl-B	mg/	kg	Analyze	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	Analyze	d 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	1169	6 37.6-14	7						

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Received:

05/08/2019

Sampling Date:

05/07/2019

Reported:

Sampling Type:

Soil

Project Name:

05/13/2019 MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Project Number:

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

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

BTEX 8021B	mg	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 (PIL	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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05/13/2019 Reported:

Project Name: MIMOSA FEDERAL SWD #3Y

05/08/2019

Project Number: NOT GIVEN

Project Location: MIMOSA FEDERAL SWD #3Y Sampling Date:

05/07/2019 Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

Received:

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	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 (PIL	101	% 73.3-12	9		(=)				
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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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 7 - 6" (H901678-17)

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	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 (PIL	102 %	6 73.3-12	9						*
Chloride, SM4500CI-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	Analyze	d 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 9	% 41-142	?	4					
Surrogate: 1-Chlorooctadecane	112 %	6 37.6-14	7						

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

Received:

05/08/2019

05/13/2019 Reported:

Project Name:

MIMOSA FEDERAL SWD #3Y

Project Number: Project Location: NOT GIVEN

MIMOSA FEDERAL SWD #3Y

Sampling Date:

Sample Received By:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

05/07/2019

Tamara Oldaker

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

BTEX 8021B	mg,	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 (PIL	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	?	vi					
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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05/08/2019

05/13/2019

Project Name:

Reported:

MIMOSA FEDERAL SWD #3Y

Project Number:

NOT GIVEN MIMOSA FEDERAL SWD #3Y

Project Location:

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	Analyze	d 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 (PIL	97.2	% 73.3-12	9						,
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	6 37.6-14	7						

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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 Number:
Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	104	% 73.3-12	9					10	
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	Analyze	d 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		e e					
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

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Celey & Keine



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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 Number:
Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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	A				
Surrogate: 4-Bromofluorobenzene (PIL	88.0	% 73,3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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Celey D. Keine



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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 12 - SUR (H901678-22)

BTEX 8021B	mg/	/kg	Analyze	ed 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 (PIL	90.6	% 73.3-12	9						
Chloride, SM4500CI-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	Analyze	ed 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 9	% 37.6-14	7						

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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 13 - SUR (H901678-23)

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	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 (PIL	91.5	% 73.3-12	9				e .		
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 37.6-14	7						

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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 14 - SUR (H901678-24)

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	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 (PIL	96.5	% 73.3-12	9						
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	Analyze	d 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	į.						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

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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 Number:
Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	87.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	% 37.6-14	7						

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Celey D. Keine



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

05/08/2019 05/13/2019 Reported:

Project Name: MIMOSA FEDERAL SWD #3Y

NOT GIVEN

Project Number:

Received:

Project Location: MIMOSA FEDERAL SWD #3Y Sampling Date:

05/07/2019 Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

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

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	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 (PIL	91.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 41-142	a .						
Surrogate: 1-Chlorooctadecane	112 9	% 37.6-14	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 & Kreene



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 Number:
Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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				X.			
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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 Number: Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	91.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Cardinal Laboratories

*=Accredited Analyte

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

	Relinquished by:	Relinquished by:	VII	Relinquished by:	o po cini	Special	9	a	7	10	· U	-	S	17	_	LAB # (lab use only)	0.00	ORDER #	(lab use only)						
	hed by:	hed by:	SI	fied by:		V4-1	V3-3'	V3-2'	V3-1'		V2-3'	V2-2'	V2-1'	V1-6"	V1-SUR	71	. 2	# H901170	only)	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:
			· ·		17.7	TRUE										FIELD CODE		00 12		ITE:	575-748-1471	Artesia, NM 88210	ss: 105 South 4th Street	EOG Y Resources Inc.	: Chase Settle
	Date	Date	5-8-19	Date	ITH EXIENDED Reeded	VTENDED		:												1		8210	Street	ces Inc.	
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	Time	Time	0	Time	ded.											Ending Depth									
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pera	C	ple	ody	S F	ple	_										Anions (CI, SO4, Alkalinity)		TOTAL:	5		x Standard	205-0750			
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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

(lab use only) Relinquished by: ORDER #: Relinquished by: Special Instructions: **20** V10-SUR AB # (lab use only) 9 15 | V8-SUR 5 2 V5-1 14 V5-3' 15 V5-2' 7 77-6" V9-SUR V6-1.5 V4-1.5' \6-1 |-1 Company Address: 105 South 4th Street Sampler Signature: Telephone No: City/State/Zip: Company Name Project Manager: 1901P18 FIELD CODE EOG Y Resources Inc Chase Settle Artesia, NM 88210 575-748-147 PH EXTENDED needed 5-8-19 Date Date Date 11:45 **Beginning Depth** Time Time Ime **Ending Depth** Received by ELOT: Received by: 5/7/2019 5/7/2019 5/7/2019 5/7/2019 5/7/2019 5/7/2019 5/7/2019 5/7/2019 5/7/2019 5/7/2019 **Date Sampled** 10:09 AM 10:08 AM 10:06 AM 9:02 AM 9:11 AM 9:06 AM 9:01 AM 9:26 AM 9:16 AM 8:57 AM Fax No: Time Sampled e-mail: Field Filtered Chase Settle@eogresources.com Total #. of Containers × × × × × × × × Ice HNO₃ HCI H2SO4 NaOH Na2S2O3 None 5-8-19 Other (Specify) Date Date DW=Drinking Water SL=Sludge Report Format: S S S S S S S S S GW = Groundwater S=Soil/Solid S Project Name: NP=Non-Potable Specify Other Project Loc: TPH: 8015B Time × Project #: × × × × × × × × TPH: TX 1005 TX 1006 PO #: 205-0750 Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep. ?
by Courier? UPS DHL Temperature Upon Receipt: Cations (Ca, Mg, Na, K) VOCs Free of Headspace? Sample Containers Intact? Laboratory Comments: x Standard Anions (CI, SO4, Alkalinity) TOTAL: TCLP: SAR/ESP/CEC Metals: As Ag Ba Cd Cr Pb Hg Se Mimosa Federal SWD #3Y Mimosa Federal SWD #3Y Volaliles Semivolatiles BTEX: 8021B ×× × × × × × × × × RCI N.O.R.M. Chlorides × × × × × × NPDES SAR RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Standard TAT × × × × ×

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

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	Relinquished by:	Relinquished by:		Relinquished by:	Special		92	3 %	26	25	12	23	22	21	LAB # (lab use only)	CZUTZ #.		(lab use only)							
	ned by:	red by:	25	hed by:	Special instructions:		V18-SUR	V17-SUR	26 V16-SUR	25 V15-SUR	V14-SUR	23 V13-SUR	22 V12-SUR	21 V11-SUR				only)	000000000000000000000000000000000000000	Sampler Signature	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:
	4				i Pr										FIELD CODE		H9011018		7	ature.	575-748-1471	: Artesia, NM 88210	iress: 105 South 4th Street	me EOG Y Resources Inc.	ger: Chase Settle
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Temperature Upon Receipt:	Dy.	Sample Hand Delivered by Sampler/Client Rep	Custody seals on container(s) Custody seals on cooler(s)	Labels on container(s)	Laboratory Comments: Sample Containers Intact? VOCs Free of Headsnace?	\vdash	+			-					Anions (CI, SO4, Alkalinity)	-	7		ı		×	<u>₹</u> 20	"	175	12
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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 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

Lab Director/Quality Manager



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

Received:

06/03/2019

Sampling Date:

05/30/2019

Reported:

06/10/2019

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 1-8" (H901938-01)

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	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 (PIL	101 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Kreene



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Received:

06/03/2019

Sampling Date:

05/30/2019

Reported:

06/10/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Number:
Project Location:

MIMOSA FEDERAL SWD #3Y

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	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 (PIL	103 %	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	% 37.6-14	7						

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Received:

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Sampling Date:

05/30/2019

Reported:

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 4-1.5' (H901938-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms			1		
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 (PIL	102 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	98.1 9	% 37.6-14	7						

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05/30/2019

Reported:

06/10/2019

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 5-4' (H901938-04)

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	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 (PIL	101	% 73.3-12	9		,				
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

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Reported:

06/10/2019

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 7- 6" (H901938-05)

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	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 (PIL	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	86.45	% 41-142	w.						
Surrogate: 1-Chlorooctadecane	86.4	37.6-14	7						

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Reported:

06/10/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Tamara Oldaker

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	6 37.6-14	7						

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Reported:

06/10/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Number: Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	100 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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Reported:

06/10/2019

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 10- 3" (H901938-08)

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	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 (PIL	102 9	% 73.3-12	9				P		
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	106 9	% 37.6-14	7						

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Sampling Date:

05/30/2019

Reported:

06/10/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Number:
Project Location:

MIMOSA FEDERAL SWD #3Y

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

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	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 (PIL	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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 5	% 41-142				2			
Surrogate: 1-Chlorooctadecane	104 5	% 37.6-14	7						

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Received:

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Sampling Date:

05/30/2019

Reported:

06/10/2019

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 12- 3" (H901938-10)

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	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 (PIL	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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Celeg & Keene



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

Fax To:

(575) 748-4131

Received:

06/03/2019

Sampling Date:

05/30/2019

Reported:

06/10/2019

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- 3" (H901938-11)

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	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 (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	103 9	% 37.6-14	7						

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*=Accredited Analyte

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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. Keine

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

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	ned by:	ieu by.	P. C.			pecial insuluctions.		V11-3"	V10-3"	V9-3"	V8-3"	V7-6"	V5-4'	V4-1.5	2 V24'	V1-8"	FIELD CODE	-	* Harlanx		(Sampler Signature:	Telephone No: 575-748-1471	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Company Name EOG Y Res	Project Manager: Chase Settle
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

			1.																								
	Relinquished by:	remiquished by:		Relinguished by		Special I			en e						6	11	LAB # (lab use only)		ORDER #:	(lab use only)							
						Special Instructions: TPH EXTENDED needed.					,					V18-3"	FIELD CODE		* 40000x		1	Sampler Signature:	Telephone No: 575-748-1471	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Company Name EOG Y Resources Inc.	Project Manager: Chase Settle
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