

## APPENDIX A



Google earth

feet 300  
meters 90



## APPENDIX B



# Compromise SWD #1 Well Site

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
COMP WELL 1-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	5,600
COMP WELL 1-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	2,320
COMP WELL 1-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	1,760
COMP WELL 1-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	320
COMP WELL 2-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	7,460
COMP WELL 2-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	7,060
COMP WELL 2-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	3,240
COMP WELL 2-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	3,160
COMP WELL 2-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	2,280
COMP WELL 3-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	7,600
COMP WELL 3-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	6,930
COMP WELL 3-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	6,000
COMP WELL 3-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	4,160
COMP WELL 3-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	2,080
COMP WELL 4-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	7,730
COMP WELL 4-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	6,130
COMP WELL 4-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	3,400
COMP WELL 4-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	3,960
COMP WELL 4-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	1,390
COMP WELL 5-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	7,440
COMP WELL 5-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	7,120
COMP WELL 5-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	1,640
COMP WELL 5-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	1,920
COMP WELL 5-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	704
COMP WELL 6-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	8,160
COMP WELL 6-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	6,320
COMP WELL 6-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	2,040
COMP WELL 6-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	1,760
COMP WELL 6-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	2,720
COMP WELL 7-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	2,840
COMP WELL 7-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	3,520
COMP WELL 7-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	1,880
COMP WELL 7-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	1,920
COMP WELL 7-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	2,720
COMP WELL 8-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	4,080
COMP WELL 8-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	6,240
COMP WELL 8-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	528
COMP WELL 9-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	3,120
COMP WELL 9-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	1,470
COMP WELL 9-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	2,960
COMP WELL 9-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	2,400
COMP WELL 9-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	3,560
COMP WELL 10-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	240
COMP WELL 10-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	640
COMP WELL 10-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	3,000
COMP WELL 10-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	4,360
COMP WELL 10-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	3,440
COMP WELL 11-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	144
COMP WELL 11-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	832
COMP WELL 11-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	1,420
COMP WELL 11-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	1,470
COMP WELL 11-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	176
COMP WELL 12-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	7,330
COMP WELL 12-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	3,560
COMP WELL 12-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	3,760
COMP WELL 12-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	3,080
COMP WELL 12-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	3,000
COMP WELL 13-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	256
COMP WELL 13-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	3,440
COMP WELL 13-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	4,000
COMP WELL 13-7	Release Area	3/11/2015	H500759	Grab/Backhoe	7'	-	-	-	-	2,280
COMP WELL 13-9	Release Area	3/11/2015	H500823	Grab/Backhoe	9'	-	-	-	-	2,040



COMP WELL 14-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	144
COMP WELL 14-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	2,360
COMP WELL 14-5	Release Area	3/11/2015	H500704	Grab/Backhoe	5'	-	-	-	-	176
COMP WELL 15-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	192
COMP WELL 15-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	144
COMP WELL 16-1	Release Area	2/12/2015	H500428	Grab/Backhoe	1'	ND	ND	ND	ND	128
COMP WELL 16-3	Release Area	2/12/2015	H500428	Grab/Backhoe	3'	ND	ND	ND	ND	96

Site Ranking is TWENTY (20). Depth to Ground Water <50' (approximately 35')

All results are ppm.Chlorides for documentation.

Released: 2,500 B/PW; Recovered: 2,300 B/PW. Release Date: 1/16/2015, 2RP-2797



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

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February 20, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: COMPROMISE SWD #1 WELL SITE

Enclosed are the results of analyses for samples received by the laboratory on 02/13/15 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://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,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 1-1 (H500428-01)**

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	02/19/2015	ND	1.55	77.5	2.00	9.18		
Toluene*	<0.050	0.050	02/19/2015	ND	1.52	75.8	2.00	7.46		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.44	72.2	2.00	5.99		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.20	70.0	6.00	6.98		
Total BTEx	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 76.2 % 61-154

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	02/18/2015	ND	212	106	200	2.60	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4	

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 1-3 (H500428-02)**

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	02/19/2015	ND	1.55	77.5	2.00	9.18		
Toluene*	<0.050	0.050	02/19/2015	ND	1.52	75.8	2.00	7.46		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.44	72.2	2.00	5.99		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.20	70.0	6.00	6.98		
Total BTEX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 74.6 % 61-154

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	02/18/2015	ND	212	106	200	2.60		
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4		

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 2-1 (H500428-03)**

BTX 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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 77.8 % 61-154

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	02/18/2015	ND	212	106	200	2.60		
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4		

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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**Analytical Results For:**

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AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 2-3 (H500428-04)**

BTX 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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 73.4 % 61-154

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	02/18/2015	ND	212	106	200	2.60		
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4		

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 3-1 (H500428-05)**

BTX 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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 73.6 % 61-154

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	02/18/2015	ND	212	106	200	2.60		
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4		

Surrogate: 1-Chlorooctane 119 % 47.2-157

Surrogate: 1-Chlorooctadecane 123 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 3-3 (H500428-06)**

BTX 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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 74.4 % 61-154

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	02/18/2015	ND	212	106	200	2.60		
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4		

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 117 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 4-1 (H500428-07)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7	
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6	
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8	
Total BTEX	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 73.5 % 61-154

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	02/18/2015	ND	212	106	200	2.60	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4	

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 4-3 (H500428-08)**

BTX 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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 73.4 % 61-154

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	02/18/2015	ND	212	106	200	2.60	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4	

Surrogate: 1-Chlorooctane 113 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 5-1 (H500428-09)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTEx	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 71.7 % 61-154

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	02/18/2015	ND	212	106	200	2.60		
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4		

Surrogate: 1-Chlorooctane 113 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 5-3 (H500428-10)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTEx	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 73.1 % 61-154

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	02/18/2015	ND	212	106	200	2.60		
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	197	98.6	200	10.4		

Surrogate: 1-Chlorooctane 123 % 47.2-157

Surrogate: 1-Chlorooctadecane 128 % 52.1-176

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**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 6-1 (H500428-11)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTEX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 73.3 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 80.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.6 % 52.1-176

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AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 6-3 (H500428-12)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTEX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 73.3 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 89.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.9 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 7-1 (H500428-13)**

BTX 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	02/19/2015	ND	1.59	79.5	2.00	13.7	
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6	
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8	
Total BTX	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 72.0 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 92.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 7-3 (H500428-14)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTEX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 69.9 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 89.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.7 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 8-1 (H500428-15)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTEX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 71.2 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 85.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.3 % 52.1-176

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AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 8-3 (H500428-16)**

BTX 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	02/19/2015	ND	1.59	79.5	2.00	13.7	
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6	
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8	
Total BTX	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 70.5 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 85.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.5 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 9-1 (H500428-17)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTEx	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 71.3 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 89.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received: 02/13/2015  
Reported: 02/20/2015  
Project Name: COMPROMISE SWD #1 WELL SITE  
Project Number: 2RP-2797  
Project Location: EDDY COUNTY, NM

Sampling Date: 02/12/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: COMP WELL 9-3 (H500428-18)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7	
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6	
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8	
Total BTEX	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 72.2 % 61-154

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	02/17/2015	ND	207	104	200	1.45	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95	

Surrogate: 1-Chlorooctane 86.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.2 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 10-1 (H500428-19)**

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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTEX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 70.7 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 88.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.4 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 10-3 (H500428-20)**

BTX 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	02/19/2015	ND	1.59	79.5	2.00	13.7		
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8		
Total BTEX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 70.8 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 89.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.3 % 52.1-176

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YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 11-1 (H500428-21)**

BTX 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	02/19/2015	ND	1.59	79.5	2.00	13.7	
Toluene*	<0.050	0.050	02/19/2015	ND	1.55	77.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.48	74.1	2.00	12.6	
Total Xylenes*	<0.150	0.150	02/19/2015	ND	4.32	72.0	6.00	12.8	
Total BTEX	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 68.1 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 90.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.5 % 52.1-176

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**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 11-3 (H500428-22)**

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	02/19/2015	ND	1.76	87.9	2.00	14.0		
Toluene*	<0.050	0.050	02/19/2015	ND	1.77	88.3	2.00	14.6		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.77	88.6	2.00	14.2		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	5.20	86.7	6.00	14.8		
Total BTEX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.4 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 93.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 83.9 % 52.1-176

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**Analytical Results For:**

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AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 12-1 (H500428-23)**

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	02/19/2015	ND	1.76	87.9	2.00	14.0	
Toluene*	0.067	0.050	02/19/2015	ND	1.77	88.3	2.00	14.6	
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.77	88.6	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/19/2015	ND	5.20	86.7	6.00	14.8	
Total BTEx	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 61-154

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	02/17/2015	ND	207	104	200	1.45	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95	

Surrogate: 1-Chlorooctane 90.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.3 % 52.1-176

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**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 12-3 (H500428-24)**

BTX 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	02/19/2015	ND	1.76	87.9	2.00	14.0		
Toluene*	<0.050	0.050	02/19/2015	ND	1.77	88.3	2.00	14.6		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.77	88.6	2.00	14.2		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	5.20	86.7	6.00	14.8		
Total BTX	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 94.8 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 88.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.6 % 52.1-176

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YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 13-1 (H500428-25)**

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	02/19/2015	ND	1.76	87.9	2.00	14.0		
Toluene*	<0.050	0.050	02/19/2015	ND	1.77	88.3	2.00	14.6		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.77	88.6	2.00	14.2		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	5.20	86.7	6.00	14.8		
Total BTEx	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.2 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 88.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.1 % 52.1-176

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**Analytical Results For:**

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 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 13-3 (H500428-26)**

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	02/19/2015	ND	1.76	87.9	2.00	14.0		
Toluene*	<0.050	0.050	02/19/2015	ND	1.77	88.3	2.00	14.6		
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.77	88.6	2.00	14.2		
Total Xylenes*	<0.150	0.150	02/19/2015	ND	5.20	86.7	6.00	14.8		
Total BTEx	<0.300	0.300	02/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.5 % 61-154

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	02/17/2015	ND	207	104	200	1.45		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95		

Surrogate: 1-Chlorooctane 91.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.3 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 14-1 (H500428-27)**

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	02/19/2015	ND	1.76	87.9	2.00	14.0	
Toluene*	<0.050	0.050	02/19/2015	ND	1.77	88.3	2.00	14.6	
Ethylbenzene*	<0.050	0.050	02/19/2015	ND	1.77	88.6	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/19/2015	ND	5.20	86.7	6.00	14.8	
Total BTEx	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 61-154

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	02/17/2015	ND	207	104	200	1.45	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	187	93.6	200	1.95	

Surrogate: 1-Chlorooctane 86.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.1 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 14-3 (H500428-28)**

BTX 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	02/20/2015	ND	1.76	87.9	2.00	14.0		
Toluene*	<0.050	0.050	02/20/2015	ND	1.77	88.3	2.00	14.6		
Ethylbenzene*	<0.050	0.050	02/20/2015	ND	1.77	88.6	2.00	14.2		
Total Xylenes*	<0.150	0.150	02/20/2015	ND	5.20	86.7	6.00	14.8		
Total BTX	<0.300	0.300	02/20/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 61-154

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	02/18/2015	ND	208	104	200	0.438	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	196	98.0	200	0.534	

Surrogate: 1-Chlorooctane 93.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.0 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 15-1 (H500428-29)**

BTX 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	02/20/2015	ND	1.76	87.9	2.00	14.0	
Toluene*	<0.050	0.050	02/20/2015	ND	1.77	88.3	2.00	14.6	
Ethylbenzene*	<0.050	0.050	02/20/2015	ND	1.77	88.6	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/20/2015	ND	5.20	86.7	6.00	14.8	
Total BTX	<0.300	0.300	02/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 61-154

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	02/18/2015	ND	208	104	200	0.438		
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	196	98.0	200	0.534		

Surrogate: 1-Chlorooctane 88.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.0 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 15-3 (H500428-30)**

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	02/20/2015	ND	1.76	87.9	2.00	14.0	
Toluene*	<0.050	0.050	02/20/2015	ND	1.77	88.3	2.00	14.6	
Ethylbenzene*	<0.050	0.050	02/20/2015	ND	1.77	88.6	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/20/2015	ND	5.20	86.7	6.00	14.8	
Total BTEX	<0.300	0.300	02/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 61-154

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	02/18/2015	ND	208	104	200	0.438	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	196	98.0	200	0.534	

Surrogate: 1-Chlorooctane 90.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.2 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 16-1 (H500428-31)**

BTX 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	02/20/2015	ND	1.76	87.9	2.00	14.0		
Toluene*	<0.050	0.050	02/20/2015	ND	1.77	88.3	2.00	14.6		
Ethylbenzene*	<0.050	0.050	02/20/2015	ND	1.77	88.6	2.00	14.2		
Total Xylenes*	<0.150	0.150	02/20/2015	ND	5.20	86.7	6.00	14.8		
Total BTX	<0.300	0.300	02/20/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 61-154

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	02/18/2015	ND	208	104	200	0.438	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	196	98.0	200	0.534	

Surrogate: 1-Chlorooctane 91.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 16-3 (H500428-32)**

BTX 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	02/20/2015	ND	1.76	87.9	2.00	14.0		
Toluene*	<0.050	0.050	02/20/2015	ND	1.77	88.3	2.00	14.6		
Ethylbenzene*	<0.050	0.050	02/20/2015	ND	1.77	88.6	2.00	14.2		
Total Xylenes*	<0.150	0.150	02/20/2015	ND	5.20	86.7	6.00	14.8		
Total BTX	<0.300	0.300	02/20/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 61-154

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	02/18/2015	ND	208	104	200	0.438	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	196	98.0	200	0.534	

Surrogate: 1-Chlorooctane 89.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.5 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-513-8799

Sampler Signature: Amber Cannon

Fax No: 575-748-4131

e-mail: [acannon@yatespetroleum.com](mailto:acannon@yatespetroleum.com)

Report Format: ☒ Standard

PO #: 205-2020

Project Loc: Eddy County

Project Name: Compromise SVD #1 Well Site

Project #: 2RP-2797

Page 35 of 38

Sample Signature: Amber Cannon e-mail: acannon@yatespetroleum.com

(lab use only)  
ORDER #: H500428-

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Preservation & # of Containers							Matrix		Analyze For:										
						Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260

01	Comp Well 1-1	1'	1'	2/12/2015	9:03 AM		1	X								S	X																X	
02	Comp Well 1-3	3'	3'	2/12/2015	9:07 AM		1	X								S	X																X	
03	Comp Well 2-1	1'	1'	2/12/2015	9:12 AM		1	X								S	X																X	
04	Comp Well 2-3	3'	3'	2/12/2015	9:16 AM		1	X								S	X																X	
05	Comp Well 3-1	1'	1'	2/12/2015	9:21 AM		1	X								S	X																X	
06	Comp Well 3-3	3'	3'	2/12/2015	9:24 AM		1	X								S	X																X	
07	Comp Well 4-1	1'	1'	2/12/2015	9:29 AM		1	X								S	X																X	
08	Comp Well 4-3	3'	3'	2/12/2015	9:33 AM		1	X								S	X																X	
09	Comp Well 5-1	1'	1'	2/12/2015	9:37 AM		1	X								S	X																X	
10	Comp Well 5-3	3'	3'	2/12/2015	9:41 AM		1	X								S	X																X	

Special Instructions: TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you. PAGE 1 OF 4

Relinquished by: Amber Cannon Date: 2/13/15 Time: 11:10  
Received by: [Signature]

Relinquished by: Date: Time:  
Received by ELDT: Date: Time:  
Temperature Upon Receipt: 3.2 °C

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









## Page 37 of 38

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

11500428

3.2°C





ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

Fax No:

e-mail: acannon@yatespetroleum.com

Project Name: Compromise SWD #1 Well Site

Project #: 2RP-2797

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: H500428-

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub>

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO<sub>4</sub>, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

Chlorides

SAR

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

8015M

TX 1006

Se

Se

Se

Se

Se

Se

Se

Se

Se

Se

Se

Se

Se

Se

Se

Se

Se

Special Instructions:

TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you. PAGE 4 OF 4

Relinquished by:

Amber Cannon

Date

2/13/15

Time

Received by:

[Signature]

Date

2/13/15

Time

11:10

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.2 °C

Relinquished by:

Date

Time

Received by:

Date

Time

February 20, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: COMPROMISE SWD #1 WELL SITE

Enclosed are the results of analyses for samples received by the laboratory on 02/13/15 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 1-1 (H500428-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 1-3 (H500428-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 2-1 (H500428-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 2-3 (H500428-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	02/17/2015	ND	400	100	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

 Received: 02/13/2015  
 Reported: 02/20/2015  
 Project Name: COMPROMISE SWD #1 WELL SITE  
 Project Number: 2RP-2797  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/12/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Celey D. Keene

**Sample ID: COMP WELL 3-1 (H500428-05)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 3-3 (H500428-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 4-1 (H500428-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 4-3 (H500428-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 5-1 (H500428-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7440	16.0	02/17/2015	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 5-3 (H500428-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 6-1 (H500428-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8160	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 6-3 (H500428-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 7-1 (H500428-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	02/17/2015	ND	400	100	400	0.00		

**Sample ID: COMP WELL 7-3 (H500428-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	02/17/2015	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 8-1 (H500428-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 8-3 (H500428-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 9-1 (H500428-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 9-3 (H500428-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	02/17/2015	ND	400	100	400	0.00		

**Sample ID: COMP WELL 10-1 (H500428-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/17/2015	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 10-3 (H500428-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 11-1 (H500428-21)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/17/2015	ND	400	100	400	0.00	

**Sample ID: COMP WELL 11-3 (H500428-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/17/2015	ND	416	104	400	3.92	

**Sample ID: COMP WELL 12-1 (H500428-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	02/17/2015	ND	416	104	400	3.92	

**Sample ID: COMP WELL 12-3 (H500428-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	02/17/2015	ND	416	104	400	3.92		

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**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 13-1 (H500428-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/17/2015	ND	416	104	400	3.92	

**Sample ID: COMP WELL 13-3 (H500428-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	02/17/2015	ND	416	104	400	3.92		

**Sample ID: COMP WELL 14-1 (H500428-27)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/17/2015	ND	416	104	400	3.92	

**Sample ID: COMP WELL 14-3 (H500428-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	02/17/2015	ND	416	104	400	3.92	

**Sample ID: COMP WELL 15-1 (H500428-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/17/2015	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/12/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 15-3 (H500428-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/17/2015	ND	416	104	400	3.92		

**Sample ID: COMP WELL 16-1 (H500428-31)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/17/2015	ND	416	104	400	3.92	

**Sample ID: COMP WELL 16-3 (H500428-32)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/17/2015	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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





**ARDINAL LABORATORIES**  
101 East Maryland, Hobbs, NM 88240

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

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-513-8799

Sampler Signature: Amber Cannon

Fax No: 575-748-4131

e-mail: acannon@yatespetroleum.com

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

Project Name: Compromise SWD #1 Well Site

Project #: 2RP-2797

Project Loc: Eddy County

PO #: 205-2020

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT		
01		Comp Well 1-1	1'	1'	2/12/2015	9:03 AM		1	X									S			X															
02		Comp Well 1-3	3'	3'	2/12/2015	9:07 AM		1	X									S			X															
03		Comp Well 2-1	1'	1'	2/12/2015	9:12 AM		1	X									S			X															
04		Comp Well 2-3	3'	3'	2/12/2015	9:16 AM		1	X									S			X															
05		Comp Well 3-1	1'	1'	2/12/2015	9:21 AM		1	X									S			X															
06		Comp Well 3-3	3'	3'	2/12/2015	9:24 AM		1	X									S			X															
07		Comp Well 4-1	1'	1'	2/12/2015	9:29 AM		1	X									S			X															
08		Comp Well 4-3	3'	3'	2/12/2015	9:33 AM		1	X									S			X															
09		Comp Well 5-1	1'	1'	2/12/2015	9:37 AM		1	X									S			X															
10		Comp Well 5-3	3'	3'	2/12/2015	9:41 AM		1	X									S			X															

Special Instructions: **TPH: 8015B, BTEX: 8021B & Chlorides.** Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you. **PAGE 1 OF 4**

Relinquished by: Amber Cannon Date: 2/13/15 Time: 11:10

Relinquished by: Chad Greene Date: 2/13/15 Time: 11:10

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by ELDT: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Temperature Upon Receipt: 3.2 °C

UPS DHL FedEx Lone Star





ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

Fax No:

e-mail:

acannon@yatespetroleum.com

Report Format:

☒ Standard

☐ TRRP

☐ NPDES

Project Name: Compromise SWD #1 Well Site

Project #: 2RP-2797

Project Loc: Eddy County

PO #: 205-2020

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	NORM.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
11	Comp Well 6-1	1'	1'	2/12/2015	9:46 AM		1	X								S	X															X
12	Comp Well 6-3	3'	3'	2/12/2015	9:51 AM		1	X								S	X															X
13	Comp Well 7-1	1'	1'	2/12/2015	10:00 AM		1	X								S	X															X
14	Comp Well 7-3	3'	3'	2/12/2015	10:05 AM		1	X								S	X															X
15	Comp Well 8-1	1'	1'	2/12/2015	10:10 AM		1	X								S	X															X
16	Comp Well 8-3	3'	3'	2/12/2015	10:15 AM		1	X								S	X															X
17	Comp Well 9-1	1'	1'	2/12/2015	10:19 AM		1	X								S	X															X
18	Comp Well 9-3	3'	3'	2/12/2015	10:23 AM		1	X								S	X															X
19	Comp Well 10-1	1'	1'	2/12/2015	10:28 AM		1	X								S	X															X
20	Comp Well 10-3	3'	3'	2/12/2015	10:32 AM		1	X								S	X															X

Special Instructions: **TPH: 8015B, BTEX: 8021B & Chlorides.** Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you. **PAGE 2 OF 4**

Relinquished by: Amber Cannon Date: 2/12/15 Time:  Received by: Cheryl Hester Date: 2/13/15 Time: 11:10

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

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

Temperature Upon Receipt: 3.2 °C

Laboratory Comments: 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 Sampler/Client Rep.? by Courier? UPS DHL FedEx Lone Star





ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

Fax No:

e-mail: acannon@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Compromise SWD #1 Well Site

Project #: 2RP-2797

Project Loc: Eddy County

PO #: 205-2020

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers								Matrix	Analyze For:																
									Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
21		Comp Well 11-1	1'	1'	2/12/2015	10:37 AM		1	X									S			X													X
22		Comp Well 11-3	3'	3'	2/12/2015	10:41 AM		1	X									S			X													X
23		Comp Well 12-1	1'	1'	2/12/2015	10:52 AM		1	X									S			X													X
24		Comp Well 12-3	3'	3'	2/12/2015	10:56 AM		1	X									S			X													X
25		Comp Well 13-1	1'	1'	2/12/2015	11:03 AM		1	X									S			X													X
26		Comp Well 13-3	3'	3'	2/12/2015	11:06 AM		1	X									S			X													X
27		Comp Well 14-1	1'	1'	2/12/2015	11:15 AM		1	X									S			X													X
28		Comp Well 14-3	3'	3'	2/12/2015	11:18 AM		1	X									S			X													X
29		Comp Well 15-1	1'	1'	2/12/2015	11:22 AM		1	X									S			X													X
30		Comp Well 15-3	3'	3'	2/12/2015	11:26 AM		1	X									S			X													X

Special Instructions: **TPH: 8015B, BTEX: 8021B & Chlorides.** Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you. **PAGE 3 OF 4**

Relinquished by: Amber Cannon Date: 2/13/15 Time: 11:10 Received by: Jeffrey Date: 2/13/15 Time: 11:10

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

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

Temperature Upon Receipt: 3.2 °C

#54





ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

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

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

Fax No:

e-mail: acannon@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Compromise SWD #1 Well Site

Project #: 2RP-2797

Project Loc: Eddy County

PO #: 205-2020

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
31	Comp Well 16-1	1'	1'	2/12/2015	11:30 AM		1	X									S			X															
32	Comp Well 16-3	3'	3'	2/12/2015	11:33 AM		1	X									S			X															

Special Instructions:

TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you. PAGE 4 OF 4

Relinquished by:

Amber Cannon

Date: 2/13/15

Time:

Received by:

[Signature]

Date: 2/13/15

Time: 11:10

Relinquished by:

Relinquished by:

Date:

Time:

Received by ELDT:

Date:

Time:

Laboratory Comments:

Sample Containers Intact?

VOCs Free of HeadSpace?

Labels on container(s)

Custody seals on container(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.2 °C

#54





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

---

March 18, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: COMPROMISE SWD #1 WELL SITE

Enclosed are the results of analyses for samples received by the laboratory on 03/13/15 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab/accred\\_certif.html](http://www.tceq.texas.gov/field/ga/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,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	03/13/2015	Sampling Date:	03/11/2015
Reported:	03/18/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 1 - 5 (H500704-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	03/18/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 2 - 5 (H500704-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	03/18/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 3 - 5 (H500704-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	03/18/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 4 - 5 (H500704-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	03/18/2015	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	03/13/2015	Sampling Date:	03/11/2015
Reported:	03/18/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 5 - 5 (H500704-05)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	03/18/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 6 - 5 (H500704-06)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	03/18/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 7 - 5 (H500704-07)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	03/18/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 8 - 5 (H500704-08)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/18/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 9 - 5 (H500704-09)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	03/18/2015	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	03/13/2015	Sampling Date:	03/11/2015
Reported:	03/18/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 10 - 5 (H500704-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	03/18/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 11 - 5 (H500704-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	03/18/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 12 - 5 (H500704-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	03/18/2015	ND	416	104	400	0.00		

**Sample ID: COMP WELL 13 - 5 (H500704-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	03/18/2015	ND	416	104	400	0.00		

**Sample ID: COMP WELL 14 - 5 (H500704-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/18/2015	ND	416	104	400	0.00		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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

PS 1922

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-513-8799

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Compromise SWD #1 Well Site

Project #: 2RP-2797

Project Loc: Eddy County

PO #: 205-2020

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1		Comp Well 1-5	5'	5'	3/11/2015	9:05 AM		1												S														X	
2		Comp Well 2-5	5'	5'	3/11/2015	9:26 AM		1												S														X	
3		Comp Well 3-5	5'	5'	3/11/2015	9:50 AM		1												S														X	
4		Comp Well 4-5	5'	5'	3/11/2015	10:18 AM		1												S														X	
5		Comp Well 5-5	5'	5'	3/11/2015	10:49 AM		1												S														X	
6		Comp Well 6-5	5'	5'	3/11/2015	11:22 AM		1												S														X	
7		Comp Well 7-5	5'	5'	3/11/2015	11:51 AM		1												S														X	
8		Comp Well 8-5	5'	5'	3/11/2015	12:15 PM		1												S														X	
9		Comp Well 9-5	5'	5'	3/11/2015	12:42 PM		1												S														X	
10		Comp Well 10-5	5'	5'	3/11/2015	1:10 PM		1												S														X	

Special Instructions: PAGE 1 of 2

Relinquished by: Amber Cannon Date: 3/13/15 Time:

Relinquished by: Jeff Heene Date: 3/13/15 Time: 11:25

Relinquished by:  Date:  Time:

Received by ELOT:  Date:  Time:

Temperature Upon Receipt: 19°C

Laboratory Comments:

Sample Containers Intact? X

VOCs Free of Headspace? X

Labels on container(s) X

Custody seals on container(s) X

Custody seals on cooler(s) X

Sample Hand Delivered X

by Sampler/Client Rep. ? X

by Courier? X UPS X DHL X FedEx X Lone Star X





PS 201

Page 7 of 7

March 24, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: COMPROMISE SWD #1 WELL SITE

Enclosed are the results of analyses for samples received by the laboratory on 03/20/15 10:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	03/20/2015	Sampling Date:	03/11/2015
Reported:	03/24/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 1-7 (H500759-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/24/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 2-7 (H500759-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	03/24/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 3-7 (H500759-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	03/24/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 4-7 (H500759-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	03/24/2015	ND	416	104	400	0.00	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	03/20/2015	Sampling Date:	03/11/2015
Reported:	03/24/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 5-7 (H500759-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	03/24/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 6-7 (H500759-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	03/24/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 7-7 (H500759-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	03/24/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 9-7 (H500759-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	03/24/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 10-7 (H500759-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	03/24/2015	ND	416	104	400	0.00	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	03/20/2015	Sampling Date:	03/11/2015
Reported:	03/24/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2797	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 11-7 (H500759-10)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	03/24/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 12-7 (H500759-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	03/24/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 13-7 (H500759-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	03/24/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

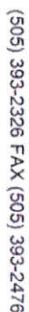
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Celey D. Keene, Lab Director/Quality Manager





March 31, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: COMPROMISE SWD #1 WELL SITE

Enclosed are the results of analyses for samples received by the laboratory on 03/27/15 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 AMBER CANNON  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	03/27/2015	Sampling Date:	03/11/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2797	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 2-9 (H500823-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	03/27/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 3-9 (H500823-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	03/27/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 4-9 (H500823-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	03/27/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 5-9 (H500823-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	03/27/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	03/27/2015	Sampling Date:	03/11/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2797	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 6-9 (H500823-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	03/27/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 7-9 (H500823-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	03/27/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 9-9 (H500823-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	03/27/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 10-9 (H500823-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	03/27/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 11-9 (H500823-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/27/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

YATES PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	03/27/2015	Sampling Date:	03/11/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 WELL SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2797	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: COMP WELL 12-9 (H500823-10)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	03/27/2015	ND	416	104	400	0.00	

**Sample ID: COMP WELL 13-9 (H500823-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	03/27/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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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



ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-513-8799

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Compromise SWD #1 Well Site

Project #: 2RP-2797

Project Loc: Eddy County

PO #: 205-2020

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix	Analyze For:																		
									Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1		Comp Well 2-9	9'	9'	3/11/2015	9:37 AM		1										S																	X
2		Comp Well 3-9	9'	9'	3/11/2015	10:00 AM		1										S																	X
3		Comp Well 4-9	9'	9'	3/11/2015	10:31 AM		1										S																	X
4		Comp Well 5-9	9'	9'	3/11/2015	11:03 AM		1										S																	X
5		Comp Well 6-9	9'	9'	3/11/2015	11:34 AM		1										S																	X
6		Comp Well 7-9	9'	9'	3/11/2015	12:00 PM		1										S																	X
7		Comp Well 9-9	9'	9'	3/11/2015	12:54 PM		1										S																	X
8		Comp Well 10-9	9'	9'	3/11/2015	1:25 PM		1										S																	X
9		Comp Well 11-9	9'	9'	3/11/2015	1:54 PM		1										S																	X
10		Comp Well 12-9	9'	9'	3/11/2015	2:19 PM		1										S																	X
11		Comp Well 13-9	9'	9'	3/11/2015	2:38 PM		1										S																	X

Special Instructions:

Relinquished by: Amber Cannon Date: 3/17/15 Time:

Relinquished by: Amber Cannon Date: 3/17/15 Time: 11:15

Relinquished by: Amber Cannon Date: 3/17/15 Time: 11:15

Received by ELDT: Amber Cannon Date: 3/17/15 Time: 11:15

Temperature Upon Receipt: 41.6 °C

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