

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

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CHIEF EXECUTIVE OFFICER

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CHIEF FINANCIAL OFFICER

October 14, 2016

Mr. Mike Bratcher or Ms. Heather Patterson
NMOCD District II
811 South First
Artesia, NM 88210

RE: Compromise SWD #1 Tank Site
30-015-25665
Section 30, T18S-R27E
Eddy County, New Mexico

Mr. Bratcher or Ms. Patterson,

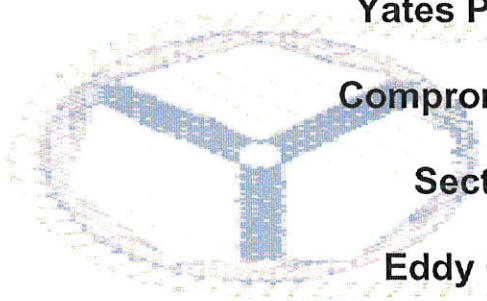
Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on December 31, 2014 (2RP-2717). The release was 200 barrels of produced water with 175 barrels of produced water recovered.

With NMOCD approval of this work plan, Yates will hold a bid meeting allowing several contractors the opportunity to submit bids on this remediation project. Bids that are received will be forwarded to Yates Management for review. Once Yates Management reviews the bids and gives approval, the remediation project will be awarded to a contractor for work to commence.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at agriffin@yatespetroleum.com.

Thank You,

Amber Griffin
Environmental Regulatory Agent
Yates Petroleum Corporation



Yates Petroleum Corporation

Compromise SWD #1 Tank Site

Section 30, T18S-R27E

Eddy County, New Mexico

October 14, 2016

I. Location

The release area is located approximately 8 miles south of Artesia, NM via Highway 285, and 5 miles east of Highway 285 on Dayton Road.

II. Background

On December 31, 2014, Yates had a release of 200 barrels produced water with 175 barrels produced water recovered. The area affected from this release was on the production pad. The release was contained to the production pad by a berm that is along the outside edges of the production pad. An initial Form C-141 was submitted, via e-mail, to the NMOCD District II on January 7, 2015.

On February 11, 2015 Yates returned to the site and collected soil samples from the release area using a backhoe. The soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M, and Chlorides SM4500Cl-B. Yates received the analytical results on February 19, 2015 and February 23, 2015 (Reports H500427 and H500499 attached to this work plan). The analytical results showed that both BTEX and TPH were at levels below NMOCD RRAL's. The analytical results also showed elevated chloride levels, but the results also showed that chlorides delineated to acceptable levels.

III. Surface and Ground Water

Area surface geology is Cenozoic. The ChevronTexaco depth to ground water map shows the depth to groundwater to be approximately 35' feet making the site ranking for this site a twenty (20). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

Depth to ground water	<50'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are sand and clay seams.

V. Scope of Work

Based off the analytical reports which show complete vertical delineation, Yates proposes the following work:

- Excavate 3' from Sections 1, 2 and 7.
- Excavate 1' from Section 3.
- No excavation will take place in Section 4, 5 or 6.
- Contaminated soils that are excavated will be hauled to a NMOCD approved disposal facility.
- Backfill the excavation with caliche.
- Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD requesting closure of this release.



Google Earth



Compromise SWD #1 Tank Site

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
COMP BATT 1-1	Release Area	2/11/2015	H500427	Grab/Backhoe	1'	ND	ND	ND	ND	2,800
COMP BATT 1-3	Release Area	2/11/2015	H500427	Grab/Backhoe	3'	ND	ND	ND	ND	3,080
COMP BATT 1-5	Release Area	2/11/2015	H500500	Grab/Backhoe	5'	-	-	-	-	464
COMP BATT 2-1	Release Area	2/11/2015	H500427	Grab/Backhoe	1'	ND	ND	ND	ND	2,320
COMP BATT 2-3	Release Area	2/11/2015	H500427	Grab/Backhoe	3'	ND	ND	ND	ND	4,040
COMP BATT 2-5	Release Area	2/11/2015	H500500	Grab/Backhoe	5'	-	-	-	-	640
COMP BATT 3-1	Release Area	2/11/2015	H500427	Grab/Backhoe	1'	ND	ND	ND	ND	2,920
COMP BATT 3-3	Release Area	2/11/2015	H500427	Grab/Backhoe	3'	ND	ND	ND	ND	880
COMP BATT 3-5	Release Area	2/11/2015	H500499	Grab/Backhoe	5'	-	-	-	-	224
COMP BATT 4-1	Release Area	2/11/2015	H500427	Grab/Backhoe	1'	ND	ND	ND	ND	256
COMP BATT 4-3	Release Area	2/11/2015	H500427	Grab/Backhoe	3'	ND	ND	ND	ND	96
COMP BATT 5-1	Release Area	2/11/2015	H500427	Grab/Backhoe	1'	ND	ND	ND	ND	1,150
COMP BATT 5-3	Release Area	2/11/2015	H500427	Grab/Backhoe	3'	ND	ND	ND	ND	368
COMP BATT 5-5	Release Area	2/11/2015	H500499	Grab/Backhoe	5'	-	-	-	-	448
COMP BATT 6-1	Release Area	2/11/2015	H500427	Grab/Backhoe	1'	ND	ND	ND	ND	992
COMP BATT 6-3	Release Area	2/11/2015	H500427	Grab/Backhoe	3'	ND	ND	ND	ND	512
COMP BATT 6-5	Release Area	2/11/2015	H500499	Grab/Backhoe	5'	-	-	-	-	304
COMP BATT 7-1	Release Area	2/11/2015	H500427	Grab/Backhoe	1'	ND	ND	ND	ND	7,360
COMP BATT 7-3	Release Area	2/11/2015	H500427	Grab/Backhoe	3'	ND	ND	ND	ND	3,840
COMP BATT 7-5	Release Area	2/11/2015	H500500	Grab/Backhoe	5'	-	-	-	-	144

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

All results are ppm.Chlorides for documentation.

Released: 200 B/PW; Recovered: 175 B/PW. Release Date: 12/31/2014, 2RP-2717

February 19, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: COMPROMISE SWD #1 TANK 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.

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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 1-1 (H500427-01)

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	02/18/2015	ND	1.55	77.5	2.00	9.18	
Toluene*	<0.050	0.050	02/18/2015	ND	1.52	75.8	2.00	7.46	
Ethylbenzene*	<0.050	0.050	02/18/2015	ND	1.44	72.2	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/18/2015	ND	4.20	70.0	6.00	6.98	
Total BTX	<0.300	0.300	02/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 74.1 % 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	203	101	200	0.672	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	195	97.6	200	1.16	

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 127 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 1-3 (H500427-02)

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	02/18/2015	ND	1.55	77.5	2.00	9.18	
Toluene*	<0.050	0.050	02/18/2015	ND	1.52	75.8	2.00	7.46	
Ethylbenzene*	<0.050	0.050	02/18/2015	ND	1.44	72.2	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/18/2015	ND	4.20	70.0	6.00	6.98	
Total BTX	<0.300	0.300	02/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 72.6 % 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	02/17/2015	ND	203	101	200	0.672	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	195	97.6	200	1.16	

Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 134 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 2-1 (H500427-03)

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	02/18/2015	ND	1.55	77.5	2.00	9.18	
Toluene*	<0.050	0.050	02/18/2015	ND	1.52	75.8	2.00	7.46	
Ethylbenzene*	<0.050	0.050	02/18/2015	ND	1.44	72.2	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/18/2015	ND	4.20	70.0	6.00	6.98	
Total BTX	<0.300	0.300	02/18/2015	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	02/17/2015	ND	203	101	200	0.672	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	195	97.6	200	1.16	

Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 131 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 2-3 (H500427-04)

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	02/18/2015	ND	1.55	77.5	2.00	9.18	
Toluene*	<0.050	0.050	02/18/2015	ND	1.52	75.8	2.00	7.46	
Ethylbenzene*	<0.050	0.050	02/18/2015	ND	1.44	72.2	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/18/2015	ND	4.20	70.0	6.00	6.98	
Total BTX	<0.300	0.300	02/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	02/17/2015	ND	203	101	200	0.672	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	195	97.6	200	1.16	

Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 134 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 3-1 (H500427-05)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2015	ND	1.55	77.5	2.00	9.18	
Toluene*	<0.050	0.050	02/18/2015	ND	1.52	75.8	2.00	7.46	
Ethylbenzene*	<0.050	0.050	02/18/2015	ND	1.44	72.2	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/18/2015	ND	4.20	70.0	6.00	6.98	
Total BTEX	<0.300	0.300	02/18/2015	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 121 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 3-3 (H500427-06)

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	02/18/2015	ND	1.55	77.5	2.00	9.18	
Toluene*	<0.050	0.050	02/18/2015	ND	1.52	75.8	2.00	7.46	
Ethylbenzene*	<0.050	0.050	02/18/2015	ND	1.44	72.2	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/18/2015	ND	4.20	70.0	6.00	6.98	
Total BTX	<0.300	0.300	02/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 72.8 % 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 118 % 52.1-176

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*—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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 4-1 (H500427-07)

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	02/18/2015	ND	1.55	77.5	2.00	9.18	
Toluene*	<0.050	0.050	02/18/2015	ND	1.52	75.8	2.00	7.46	
Ethylbenzene*	<0.050	0.050	02/18/2015	ND	1.44	72.2	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/18/2015	ND	4.20	70.0	6.00	6.98	
Total BTX	<0.300	0.300	02/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 71.6 % 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 128 % 47.2-157

Surrogate: 1-Chlorooctadecane 126 % 52.1-176

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*=Accredited Analyte

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YATES PETROLEUM CORPORATION
AMBER CANNON
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Artesia NM, 88210
Fax To: (505) 748-4635

Received:	02/13/2015	Sampling Date:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 4-3 (H500427-08)

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	02/18/2015	ND	1.55	77.5	2.00	9.18	
Toluene*	<0.050	0.050	02/18/2015	ND	1.52	75.8	2.00	7.46	
Ethylbenzene*	<0.050	0.050	02/18/2015	ND	1.44	72.2	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/18/2015	ND	4.20	70.0	6.00	6.98	
Total BTX	<0.300	0.300	02/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 74.8 % 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 124 % 47.2-157

Surrogate: 1-Chlorooctadecane 126 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 5-1 (H500427-09)

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	02/18/2015	ND	1.55	77.5	2.00	9.18	
Toluene*	<0.050	0.050	02/18/2015	ND	1.52	75.8	2.00	7.46	
Ethylbenzene*	<0.050	0.050	02/18/2015	ND	1.44	72.2	2.00	5.99	
Total Xylenes*	<0.150	0.150	02/18/2015	ND	4.20	70.0	6.00	6.98	
Total BTEX	<0.300	0.300	02/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 75.3 % 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	02/18/2015	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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* = 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 5-3 (H500427-10)

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	1.55	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 BTX	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 72.3 % 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	02/18/2015	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 116 % 47.2-157

Surrogate: 1-Chlorooctadecane 120 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 6-1 (H500427-11)

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	1.55	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 (PIL) 74.8 % 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 112 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 6-3 (H500427-12)

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	1.55	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 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 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 7-1 (H500427-13)

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	1.55	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 BTX	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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 121 % 47.2-157

Surrogate: 1-Chlorooctadecane 125 % 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 7-3 (H500427-14)

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	1.55	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 BTX	<0.300	0.300	02/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 72.6 % 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 120 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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 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

Fax No: 575-748-4131

e-mail: acannon@yatespetroleum.com

Project Name: Compromise SWD #1 Tank Site

Project #: 2RP-2717

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Job use only

ORDER #: H500427

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Comp Batt 1-1	1'	1'	2/11/2015	8:58 AM		1	X									S	X														X
02	Comp Batt 1-3	3'	3'	2/11/2015	9:02 AM		1	X									S	X														X
03	Comp Batt 2-1	1'	1'	2/11/2015	9:14 AM		1	X									S	X														X
04	Comp Batt 2-3	3'	3'	2/11/2015	9:18 AM		1	X									S	X														X
05	Comp Batt 3-1	1'	1'	2/11/2015	9:30 AM		1	X									S	X														X
06	Comp Batt 3-3	3'	3'	2/11/2015	9:34 AM		1	X									S	X														X
07	Comp Batt 4-1	1'	1'	2/11/2015	9:45 AM		1	X									S	X														X
08	Comp Batt 4-3	3'	3'	2/11/2015	9:49 AM		1	X									S	X														X
09	Comp Batt 5-1	1'	1'	2/11/2015	10:00 AM		1	X									S	X														X
10	Comp Batt 5-3	3'	3'	2/11/2015	10:04 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 2

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

Temperature Upon Receipt: 3.2 °C

Reinquished by: Amber Cannon

Date: 2/13/15

Time: 11:10

Date: 2/13/15

Time: 11:10

Reinquished by: Amber Cannon

Date: 2/13/15

Time: 11:10

Date: 2/13/15

Time: 11:10

Reinquished by: Amber Cannon

Date: 2/13/15

Time: 11:10

Date: 2/13/15

Time: 11:10



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

February 19, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: COMPROMISE SWD #1 TANK 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.

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
 Reported: 02/19/2015
 Project Name: COMPROMISE SWD #1 TANK SITE
 Project Number: 2RP-2717
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Caley D. Keene

Sample ID: COMP BATT 1-1 (H500427-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	02/17/2015	ND	400	100	400	0.00	

Sample ID: COMP BATT 1-3 (H500427-02)

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	02/17/2015	ND	400	100	400	0.00	

Sample ID: COMP BATT 2-1 (H500427-03)

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 BATT 2-3 (H500427-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	02/17/2015	ND	400	100	400	0.00	

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* = Accredited Analyte

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Caley 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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 3-1 (H500427-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	02/17/2015	ND	400	100	400	0.00	

Sample ID: COMP BATT 3-3 (H500427-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	02/17/2015	ND	400	100	400	0.00	

Sample ID: COMP BATT 4-1 (H500427-07)

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	400	100	400	0.00	

Sample ID: COMP BATT 4-3 (H500427-08)

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	400	100	400	0.00	

Sample ID: COMP BATT 5-1 (H500427-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	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:	02/11/2015
Reported:	02/19/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	Cool & Intact
Project Number:	2RP-2717	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 5-3 (H500427-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/17/2015	ND	400	100	400	0.00	

Sample ID: COMP BATT 6-1 (H500427-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/17/2015	ND	400	100	400	0.00	

Sample ID: COMP BATT 6-3 (H500427-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/17/2015	ND	400	100	400	0.00	

Sample ID: COMP BATT 7-1 (H500427-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	02/17/2015	ND	400	100	400	0.00	

Sample ID: COMP BATT 7-3 (H500427-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	02/17/2015	ND	400	100	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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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

Sampler Signature: Amber Cannon

Amber Cannon

Fax No:

e-mail: acannon@yatespetroleum.com

Project Name: Compromise SWD #1 Tank Site

Project #: 2RP-2717

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

3b use only

ORDER #:

4500427

LAB # (lab use only)			
FIELD CODE			
	Beginning Depth		
	Ending Depth		
	Date Sampled		
	Time Sampled		
	Field Filtered		
	Total #. of Containers		
	Ice		
	HNO ₃		
	HCl		
H ₂ SO ₄			
NaOH			
Na ₂ S ₂ O ₃			
None			
Other (Specify)			
W=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 ₄ , Alkalinity)			
SAR / ESP / CEC			
Metals: As Ag Ba Cd Cr Pb Hg Sr			
Volatiles			
Semi-volatiles			
BTEX 8021B/5030 or BTEX 8260			
I			
D.R.M.			
Chlorides			
SAR			
RUSH TAT (Pre-Schedule) 24, 48,			
Standard TAT			

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 2

Relinquished by:

Amber Cannon

Date

2/13/15

Time

Received by:

Michelle

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)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep.?
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.2 °C

February 23, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: COMPROMISE SWD #1 TANK SITE

Enclosed are the results of analyses for samples received by the laboratory on 02/20/15 10:35.

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.

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:	02/20/2015	Sampling Date:	02/11/2015
Reported:	02/23/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2717	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 3-5 (H500499-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/23/2015	ND	416	104	400	3.92	

Sample ID: COMP BATT 5-5 (H500499-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/23/2015	ND	416	104	400	3.92	

Sample ID: COMP BATT 6-5 (H500499-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/23/2015	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Celey D. Keene, Lab Director/Quality Manager

February 23, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: COMPROMISE SWD #1 TANK SITE

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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:	02/20/2015	Sampling Date:	02/11/2015
Reported:	02/23/2015	Sampling Type:	Soil
Project Name:	COMPROMISE SWD #1 TANK SITE	Sampling Condition:	** (See Notes)
Project Number:	2RP-2717	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: COMP BATT 1-5 (H500500-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/23/2015	ND	416	104	400	3.92	

Sample ID: COMP BATT 2-5 (H500500-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/23/2015	ND	416	104	400	3.92	

Sample ID: COMP BATT 7-5 (H500500-03)

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	02/23/2015	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

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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

lab use only)

ORDER #: H500500

Fax No: 575-748-4131

e-mail: acannon@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Compromise SWD #1 Tank Site

Project #: 2RP-2717

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 ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	Comp Batt 1-5	5'	5'	2/11/2015	9:09 AM		1																											
2	Comp Batt 2-5	5'	5'	2/11/2015	9:24 AM		1																											
3	Comp Batt 7-5	5'	5'	2/11/2015	11:08 AM		1																											

Special Instructions:

Relinquished by: Amber Cannon Date: 2/26/15 Time:

Relinquished by: Speci. Services Date: 2/26/15 Time: 10:35

Relinquished by: Date: Time:

Received by: Date: Time:

Received by ELDT: Date: Time:

Temperature Upon Receipt: 19.4 °C

Laboratory Comments:

Sample Containers Intact? Y

VOCs Free of HeadSpace? Y

Labels on container(s) Y

Custody seals on container(s) Y

Custody seals on cooler(s) Y

Sample Hand Delivered Y

by Sampler/Client Rep. ? Y

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