MARTIN YATES, III 1912-1985 FRANK W. YATES

1936-1986 S.P YATES



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES

JOHN A. YATES JR.

JOHN D. PERINI
EXECUTIVE V.P. OF MONETIZATION
CHIEF FINANCIAL OFFICER

JAMES 5. BROWN

September 09, 2014

Mr. Mike Bratcher NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

NDDUP Unit #108

30-015-27378

Section 30, T19S-R25E Eddy County, New Mexico

Mr. Bratcher,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated June 12, 2014.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of September 23, 2014.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle Environmental Regulatory Agent

Enclosure(s)

Yates Petroleum Corporation

NDDUP Unit #108 Work Plan

**Section 30, T19S-R25E** 

**Eddy County, New Mexico** 

September 09, 2014

#### I. Location

The Julie #2 Battery is located 13 miles south of Artesia on US 285, west approximately 8 miles on Rocking R Red Road, then south on Crossbuck Road 1.5 miles, and approximately 0.4 of a mile east on the lease road.

# II. Background

On June 12, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 10 B/PW with 8 B/PW recovered. Excavation of visually impacted soils was undertaken within the release area. The total affected area was approximately 146 feet by 85 feet. Initial delineation samples were taken in the S1 area (6/20/2014) and sent to a NMOCD approved laboratory (7/01/2014, results enclosed). Based on analytical results (7/01/2014), Yates determined that further sampling was needed. Additional delineation samples were taken and the area split into 3 sample areas. Samples were taken from the S2, S3, and S4 areas (7/10/2014) and sent to a NMOCD approved laboratory (7/21/2014, results enclosed). Based on analytical results (7/21/2014), Yates excavated an additional four (4) feet of impacted material from the release area and completed deeper, more extensive sampling to determine delineation of chlorides. Yates sampled the S2, S3, and S4 areas again (8/20/2014) and sent samples to a NMOCD approved laboratory (8/21/2014, results enclosed).

#### III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 30, T19S-R25E) that depth to groundwater is approximately 200 feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

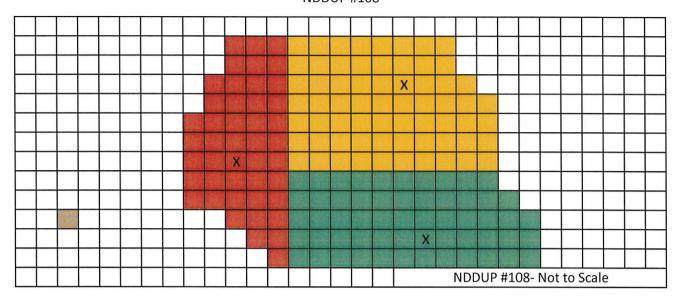
### IV. Soils

The area consists of soils that are caliche and bedrock which are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

### V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (200'), five (5) feet of impacted material already excavated, and a decrease in chlorides, Yates Petroleum Corporation will install a 20 ml liner in the release area with six (6) inches of topsoil below the liner for cushion, then backfill with four and a half (4 1/2) feet of topsoil allowing for vegetative repopulation of the disturbed area and protection from groundwater contamination. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) in the release area, no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report, analytical results and a site sample diagram will be submitted to the NMOCD and request closure of the site.

# NDDUP #108



Wellhead S3 Sample area

S2 Sample area S4 Sample area

S1 was a composite from all areas

H401919	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	6/20/2014	Backhoe	1'	<0.3	<10.0	<10.0	4640
S1-2'	Release Area	6/20/2014	Backhoe	2'	<0.3	<10.0	<10.0	5040
S1-3'	Release Area	6/20/2014	Backhoe	3'	<0.3	<10.0	<10.0	3680
S1-4'	Release Area	6/20/2014	Backhoe	4'	<0.3	<10.0	<10.0	4800
S1-5 <sup>t</sup>	Release Area	6/20/2014	Backhoe	5'	<0.3	<10.0	<10.0	4080
S1-6'	Release Area	6/20/2014	Backhoe	6'	<0.3	<10.0	<10.0	5120
S1-7'	Release Area	6/20/2014	Backhoe	7'	<0.3	<10.0	<10.0	4480
S1-8'	Release Area	6/20/2014	Backhoe	8'	<0.3	<10.0	<10.0	5680
H402130	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-9'	Release Area	7/10/2014	Backhoe	9'	N/A	N/A	N/A	3950
S2-11 <sup>'</sup>	Release Area	7/10/2014	Backhoe	11'	N/A	N/A	N/A	5680
S2-13'	Release Area	7/10/2014	Backhoe	13'	N/A	N/A	N/A	5440
S2-15 <sup>'</sup>	Release Area	7/10/2014	Backhoe	15'	N/A	N/A	N/A	5600
S3-9'	Release Area	7/10/2014	Backhoe	9'	N/A	N/A	N/A	6560
S3-11'	Release Area	7/10/2014	Backhoe	11'	N/A	N/A	N/A	4240
S3-13'	Release Area	7/10/2014	Backhoe	13'	N/A	N/A	N/A	4640
S3-15'	Release Area	7/10/2014	Backhoe	15'	N/A	N/A	N/A	4480
S4-9 <sup>1</sup>	Release Area	7/10/2014	Backhoe	9'	N/A	N/A	N/A	3480
S4-11'	Release Area	7/10/2014	Backhoe	11'	N/A	N/A	N/A	4880
S4-13'	Release Area	7/10/2014	Backhoe	13'	N/A	N/A	N/A	6160
S4-15'	Release Area	7/10/2014	Backhoe	15'	N/A	N/A	N/A	6640
H402567	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-16 <sup>1</sup>	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	6000

S2-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	3520
S2-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	3000
S2-22'	Release Area	8/20/2014	Trackhoe	22'	N/A	N/A	N/A	1280
S3-16'	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	4560
S3-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	5040
S3-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	4160
S3-22'	Release Area	8/20/2014	Trackhoe	22'	N/A	N/A	N/A	704
\$4-16'	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	2160
\$4-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	48
\$4-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	<16.0
\$4-22'	Release Area	8/20/2014	Trackhoe	22'	N/A	N/A	N/A	64

Site Ranking is Zero (0). >100' (200', Section 30, T19S-R25E, Trend Map All results are ppm. Chlorides for documentation Released: 10 B/PW; Recovered: 8 B/PW Release Date: 06/02/2014



July 01, 2014

CHASE SETTLE
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: NDDUP UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 06/25/14 16:14.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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

Received: Reported: 06/25/2014

07/01/2014 NDDUP UNIT #108

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Sample Received By:

Cool & Intact

06/20/2014

Jodi Henson

Sample ID: S1-1' (H401919-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK			10/10/20/20/20/20/20/20/20/20/20/20/20/20/20		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/27/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/27/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/27/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.9 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	06/30/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	
Surrogate: 1-Chlorooctane	69.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.8	% 63.6-15	4						

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\*=Accredited Analyte

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Celey & Keene



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

Received:

06/25/2014

Sampling Date:

06/20/2014

Reported:

07/01/2014

Sampling Type:

Soil

Project Name:

NDDUP UNIT #108

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

### Sample ID: S1-2' (H401919-02)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.9 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	06/30/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	
Surrogate: 1-Chlorooctane	71.4	% 65.2-14	0					, , , , , , , , , , , , , , , , , , ,	
Surrogate: 1-Chlorooctadecane	88.2	% 63.6-15	4						

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\*=Accredited Analyte

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Celey & Keene



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

Received: Reported: 06/25/2014

07/01/2014

Project Name: Project Number: NDDUP UNIT #108 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

06/20/2014

Sample ID: S1-3' (H401919-03)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.0	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	06/30/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	
Surrogate: 1-Chlorooctane	72.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.8	% 63.6-15	4						

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

Received: 06/25/2014 Reported: 07/01/2014

Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date:

06/20/2014

Sampling Type: Soil

Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: S1-4' (H401919-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK		****			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	< 0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.6	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	06/30/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	
Surrogate: 1-Chlorooctane	69.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.8	% 63.6-15	4						

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YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

06/25/2014

Sampling Date:

06/20/2014

Reported:

07/01/2014

Sampling Type:

Soil

Project Name:

NDDUP UNIT #108

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1-5' (H401919-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.5	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	06/30/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	
Surrogate: 1-Chlorooctane	73.6	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	91.0	% 63.6-15	i <i>4</i>						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene



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

Received:

06/25/2014

Reported:

07/01/2014

Project Name: Project Number: NDDUP UNIT #108 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

06/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S1-6' (H401919-06)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	< 0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.4	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/30/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	
Surrogate: 1-Chlorooctane	71.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.6	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 06/25/2014

07/01/2014

Project Name:

NDDUP UNIT #108

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

06/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: S1-7' (H401919-07)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	06/30/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	
Surrogate: 1-Chlorooctane	74.5	% 65.2-14	0				TO HOROCHINE WARRENCE WITE		
Surrogate: 1-Chlorooctadecane	91.2	% 63.6-15	4						

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\*=Accredited Analyte

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Celley D. Keene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

06/25/2014

Reported:

07/01/2014

Project Name:

NDDUP UNIT #108

Project Number: Project Location:

NONE GIVEN

93.0 %

63.6-154

Sampling Date:

06/20/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.7	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	5680	16.0	06/30/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg & Kreene



#### **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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

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July 21, 2014

CHASE SETTLE
YATES PETROLEUM CORPORATION

105 S 4th Street Artesia, NM 88210

RE: NDDUP UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 07/14/14 14:25.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Keine

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



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 07/14/2014

07/21/2014

NDDUP UNIT #108

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

07/10/2014

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

# Sample ID: S2-9' (H402130-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	3950	16.0	07/18/2014	ND	400	100	400	3.92	
Sample ID: S2-11' (H402:	130-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	07/18/2014	ND	400	100	400	3.92	
Sample ID: S2-13' (H402:	130-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP			¥		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	07/18/2014	ND	400	100	400	3.92	
Sample ID: S2-15' (H402	130-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	07/18/2014	ND	400	100	400	3.92	

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\*=Accredited Analyte

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Celey D. Krene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

07/14/2014

Reported:

07/21/2014

Project Name: Project Number: NDDUP UNIT #108

Project Location:

NONE GIVEN

Sampling Date:

07/10/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)
Jodi Henson

Sample ID: S3-9' (H402130-05)

Chloride, SM4500	oci	-B
------------------	-----	----

#### Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	07/18/2014	ND	400	100	400	3 92	

# Sample ID: S3-11' (H402130-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	07/18/2014	ND	400	100	400	3.92	

# Sample ID: S3-13' (H402130-07)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	07/18/2014	ND	416	104	400	0.00	

# Sample ID: S3-15' (H402130-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/18/2014	ND	416	104	400	0.00	

### Sample ID: S4-9' (H402130-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	07/18/2014	ND	416	104	400	0.00	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

07/14/2014

Sampling Date:

07/10/2014

Reported:

07/21/2014

Sampling Type:

Soil

Project Name:

NDDUP UNIT #108

Sampling Condition:

\*\* (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

Analyte

Analyte

Analyte

NOT GIVEN

Sample ID: S4-11' (H402130-10)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Result

4880

Result

6160

Result

6640

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AP

Analyzed

07/18/2014

Analyzed

07/18/2014

Method Blank ND

Method Blank

ND

BS 416 % Recovery True Value QC RPD

Qualifier

Qualifier

Sample ID: S4-13' (H402130-11)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

BS

416

% Recovery

104

104

400

True Value QC

400

400

0.00

RPD

0.00

0.00

Sample ID: S4-15' (H402130-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Reporting Limit Analyzed 16.0 07/18/2014 Method Blank ND

BS 416 % Recovery 104

True Value QC RPD

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Celey D. Keens

Page 4 of 7



#### **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

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Kreene

Project Manager   Class Sellie   Company Address: 105 Statis And Sellie   Co	4.40																									-				
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ARDINAL LABORATORIES           101 East Marland, Hobbs, NM 88240         (505) 393-2326 FAX (505) 393-2476         Project Name:         NDDUP           In East Marland, Hobbs, NM 88240         (505) 393-2326 FAX (505) 393-2476         Project Name:         NDDUP           In East Marland, Hobbs, NM 88240         Chase Settle         Project Loc:         NDDUP           Imperiod South 4th Street         Project Loc:         NDDUP           Imperiod South 4th Street         Po#: 205750           y/State/Zip:         Artesia, NM 88210         Fax No:         575-748-4131         Report Format:         X Standard         Imperiod Standard		260		Se				158		Aatrio	3		ners	ontai	of C	± % ⊓	vatio	reser	اوا	4	4						02070		ER#	RDE
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	Relinquished by:	Relinquished by:	Special Instructions:						) S4-15'	\$4.13'		S4-9'	AB # (lab use only) FIELD CODE	(lab use only) H402130 ORDER #: H402029	Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Comp: (505) 393-232€ Yates Petroleum Corporation	Project Manager: Chase Settle	ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240
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	Date	14)14 2 Date							s	s	s	s	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Soild NP=Non-Potable Specify Other	Matrix	csettle@yatespetroleum.com	Report Format:		' _p	·	Project Name:	
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ŀ	=	800	SSE		T	$\neg$		T			T	T	Cations (Ca, Mg, Na, K)				PO #: 205750	.8	#	.e:	
	Temperature Upon Receipt	Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep.? by Courier? UPS Di	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Labels on container(s)		$\dagger \dagger$			T	T	T			Anions (CI, SO4, Alkalinity)	10	<b>₫    </b>	×	205				
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August 27, 2014

CHASE SETTLE
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: NDDUP UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 08/21/14 13:20.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Kune

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



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/21/2014

08/27/2014

Reported: Project Name:

NDDUP UNIT #108

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

08/20/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes) Kathy Perez

# Sample ID: S2-16' (H402567-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/25/2014	ND	416	104	400	3.92	
Sample ID: S2-18' (H402	2567-02)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	08/25/2014	ND	416	104	400	3.92	
Sample ID: S2-20' (H402	2567-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	08/25/2014	ND	416	104	400	3.92	
Sample ID: S2-22' (H402	2567-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	08/25/2014	ND	416	104	400	3.92	

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\*=Accredited Analyte

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Celeg & Keens



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/21/2014

Sampling Date:

08/20/2014

Reported:

Sampling Type:

Soil

08/27/2014 NDDUP UNIT #108

Sampling Condition:

\*\* (See Notes)

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

# Sample ID: S3-16' (H402567-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP		-			-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	08/25/2014	ND	416	104	400	3.92	
Sample ID: S3-18' (H40256	7-06)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	08/25/2014	ND	416	104	400	3.92	
Sample ID: S3-20' (H40256 Chloride, SM4500Cl-B	<b>7-07)</b> mg,			10.40					
Ciliofide, Si4300Ci-B	nig	ку	Analyze	d By: AP	-		· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	08/25/2014	ND	416	104	400	3.92	
Sample ID: S3-22' (H40256	7-08)								
Chloride, SM4500CI-B			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/25/2014	ND	400	100	400	0.00	
Sample ID: S4-16' (H40256	7-09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	08/25/2014	ND	400	100	400	0.00	

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\*=Accredited Analyte

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Celeg Ditrene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 08/21/2014

08/27/2014

Project Name:

NDDUP UNIT #108

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

08/20/2014

Soil

\*\* (See Notes)

Sample Received By:

Sampling Condition:

Kathy Perez

RPD

0.00

Qualifier

### Sample ID: S4-18' (H402567-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	
Chloride	48.0	16.0	08/25/2014	ND	400	100	400	

#### Sample ID: S4-20' (H402567-11)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/25/2014	ND	400	100	400	0.00	

#### Sample ID: S4-22' (H402567-12)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/25/2014	ND	400	100	400	0.00	

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Celeg E Freeno



#### **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

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keene

	Relinquished by:	Relinquished by:	Relinquished by		Special Instructions:		Ø 33-22	S4-20	\$3-18	03-16	C \$2-22	-	32 S2-18		LAB # (lab use only)  FIELD CODD		ORDER #: 1/40 2567	(lab use only)	Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Compa(303) 335-2327 Yates Petroleum Corporation	Opposition of the state of the	Project Manager: Chase Settle	ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240
	Date	Date	Date √-2)-/U							-		_				1		لـــ	C		210	treet	Corporation			8240
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	CT.						10:45 AM	10:45 AM	10:45 AM	10:45 AM	9:30 AM	9:30 AM	9:30 AM	9:30 AM	Time Sampled				e-mail:	Fax No:						(505) 393-2326 FAX (505) 393-2476
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