

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2000



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
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JOHN A. YATES
CHAIRMAN OF THE BOARD

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

JAMES S. BROWN
CHIEF OPERATING OFFICER

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.

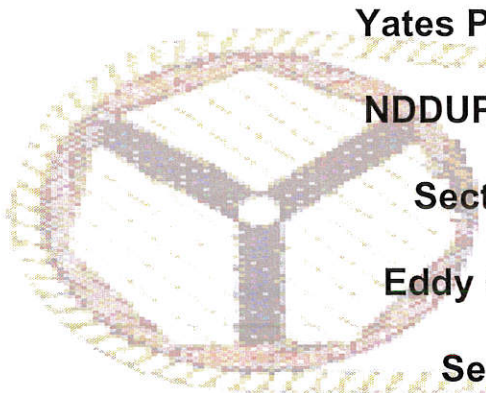
YATES PETROLEUM CORPORATION

Chase Settle
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER



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'

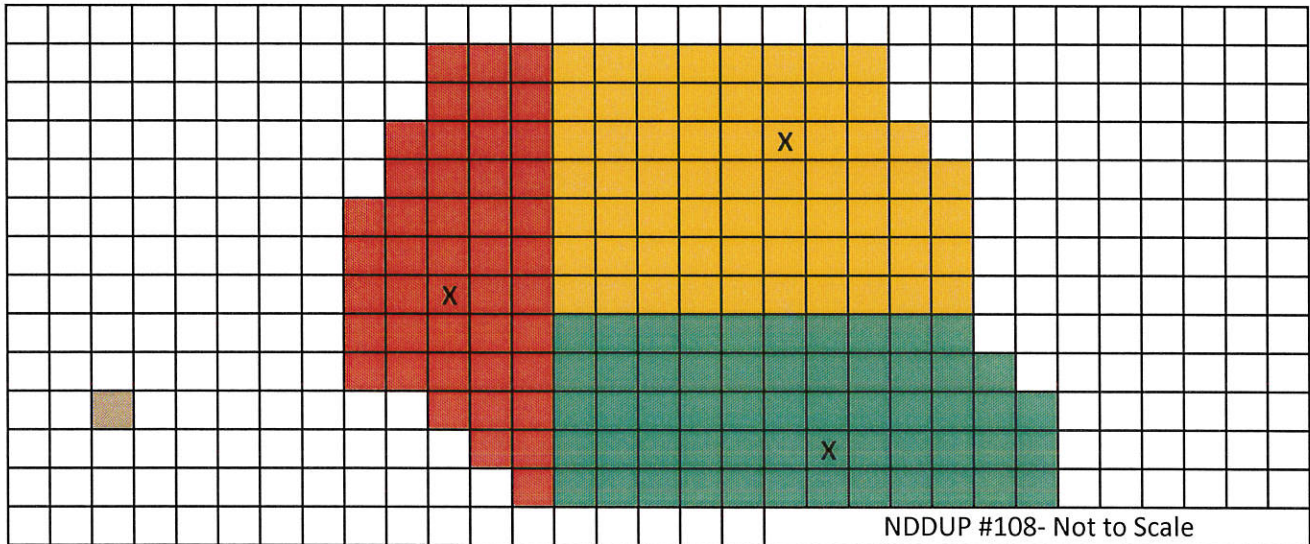
IV. Soils

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



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'	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'	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'	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'	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'	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
S4-16'	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	2160
S4-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	48
S4-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	<16.0
S4-22'	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 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
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
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 8021B			mg/kg		Analyzed By: CK				
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 BTX	<0.300	0.300	06/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.9 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Coley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 97.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

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Coley D. Keene, Lab Director/Quality Manager

Analytical Results For:

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
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTEx 8021B		mg/kg		Analyzed 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 (PIE) 98.0 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/26/2014	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.8 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 97.5 % 89.4-126

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	06/30/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: S1-6' (H401919-06)

BTEx 8021B		mg/kg		Analyzed 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 (PIE) 97.4 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.9 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-8' (H401919-08)

BTEx 8021B		mg/kg		Analyzed 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 (PIE) 97.7 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	06/30/2014	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						

Surrogate: 1-Chlorooctane 76.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

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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

Project Manager: Chase Settle

Comp: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

Fax No: 575-748-4131
e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205750

Project Name: NDDUP Unit #108

Project #:

Project Loc: NDDUP Unit #108

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:															
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 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	
1	S1-1'			6/20/2014	12:30 PM		1	X								S	X															X
2	S1-2'			6/20/2014	12:30 PM		1	X								S	X															X
3	S1-3'			6/20/2014	12:30 PM		1	X								S	X															X
4	S1-4'			6/20/2014	12:30 PM		1	X								S	X															X
5	S1-5'			6/20/2014	12:30 PM		1	X								S	X															X
6	S1-6'			6/20/2014	12:30 PM		1	X								S	X															X
7	S1-7'			6/20/2014	12:30 PM		1	X								S	X															X
8	S1-8'			6/20/2014	12:30 PM		1	X								S	X															X

Special Instructions:

Relinquished by: Date: 6-25-14 Time: 11:18 AM Received by: Date: 6-25-14 Time: 11:44 AM

Relinquished by: Date: Date: Time: Received by: Date: 6-25-14 Time: 11:44 AM

Relinquished by: Date: Date: Time: Received by: Date: 6-25-14 Time: 11:44 AM

Laboratory Comments:

Sample Containers Initialed? ☒ 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. ? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star ☒ Temperature Upon Receipt: 60.0 °C

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: NDDUP UNIT #108
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, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3950	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S2-11' (H402130-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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' (H402130-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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' (H402130-04)

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	07/18/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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: NDDUP UNIT #108
 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: S3-9' (H402130-05)

Chloride, SM4500Cl-B		mg/kg		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		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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		Analyzed 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

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: NDDUP UNIT #108
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: S4-11' (H402130-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	07/18/2014	ND	416	104	400	0.00		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	07/18/2014	ND	416	104	400	0.00		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	07/18/2014	ND	416	104	400	0.00	

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



NDDUP Unit #108

Project Loc: NDDUP Unit #108

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: csettle@yatespetroleum.com

H402030

©



2

Project Loc: NDDUP Unit #108

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: csettle@yatespetroleum.com

ORDER #: 11906629

[illegible]

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

Received: 08/21/2014
Reported: 08/27/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

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

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	08/25/2014	ND	416	104	400	3.92	

Sample ID: S2-18' (H402567-02)

Chloride, SM4500CI-B		mg/kg		Analyzed 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' (H402567-03)

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	08/25/2014	ND	416	104	400	3.92	

Sample ID: S2-22' (H402567-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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:	08/27/2014	Sampling Type:	Soil
Project Name:	NDDUP UNIT #108	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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' (H402567-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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' (H402567-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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' (H402567-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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' (H402567-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/21/2014
Reported: 08/27/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/25/2014	ND	400	100	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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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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: Chase Settle

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

Fax No: 575-748-4131
e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: NDDUP Unit #108

Project #:

Project Loc: NDDUP Unit #108

PO #: 205750

(lab use only)

ORDER #: H408567

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered
Total #. of Containers

Preservation & # of Containers

Matrix

Ice
HNO₃
HCl
H₂SO₄
NaOH
Na₂S₂O₃
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, SO₄, 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

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 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
9	S4-16'			8/20/2014	12:00 PM		1																										
10	S4-18'			8/20/2014	12:00 PM		1																										
11	S4-20'			8/20/2014	12:00 PM		1																										
12	S4-22'			8/20/2014	12:00 PM		1																										

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date Time Received by:

Date Time Received by:

Date Time Received by:

Date Time

Date Time

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: 25.7 °C