MARTIN YATES, III

FRANK W. YATES 1930-1980 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.R. OF MONETIZATION ONIEF FINANCIAL OFFICER

JAMES S. BROWN

January 5, 2015

Mr. Mike Bratcher/Mrs. Heather Patterson NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

North Dagger Draw Water Transfer

Section 20, T19S-R25E Eddy County, New Mexico

Mr. Bratcher/Mrs. Patterson,

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 August 28, 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 January 20, 2015.

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** 

North Dagger Draw Water Transfer Work Plan

**Section 20, T19S-R25E** 

**Eddy County, New Mexico** 

January 5, 2015

#### I. Location

The location is approximately 13 miles south of Artesia and 7 miles west on Rocking R Red Road.

## II. Background

On August 28, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 50 B/PW with 40 B/PW recovered. The total affected area was approximately a 113 feet by 89 feet between the tanks and flowing into the open excavation of a previous release/work plan. Initial delineation samples were taken in the S1 and S2 sample areas (9/3/2014) and sent to a NMOCD approved laboratory (9/11/2014, results enclosed). Based on analytical results (9/11/2014), Yates Petroleum Corporation performed deeper more extensive sampling in the S1 and S2 sample areas (10/8/2014) and sent to a NMOCD approved laboratory (10/15/2014, results enclosed). Sampling was concluded in the S1 sample area due to safety concerns, but Yates Petroleum Corporation performed further sampling in the S2 sample area (12/3/2014) and sent to a NMOCD approved laboratory (12/8/2014, results enclosed).

#### III. Surface and Ground Water

Area surface geology ranges from Cenozoic Quaternary to Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 20, T19S-R25E) that depth to groundwater is approximately 120' 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:

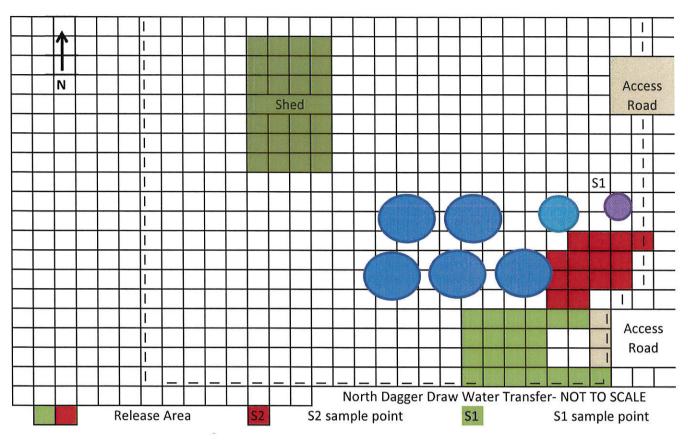
Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

#### IV. Soils

The area consists of soils that are caliche and loamy top soil and are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface. There is also a solid rock layer at twenty feet preventing migration of contaminants to groundwater.

## V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (120'), and a decrease in TPH, BTEX, and chlorides, Yates Petroleum Corporation will excavate to fifteen (15) feet within the S2 release area and haul excavated soils to an NMOCD approved facility. Yates will then install 5-6 vent wells to a minimum depth of fifteen (15) feet in rows running east and west, spaced four (4) feet apart throughout the S2 area. Upon installation, Yates will monitor the vent wells monthly by means of a PID meter. Yates will install a synthetic liner at eight (8) feet within the S1 area, then backfill the S1 and S2 areas with caliche. Backfill will consist of remediated soil from a previous release that is stockpiled on location (as per our onsite conversation November 19, 2014), analytical data on the stockpiled soil taken from eleven (11) sampling holes at varying depths is enclosed (12/23/2014). With a synthetic liner in place, no further analytical testing of TPH, BTEX, and/or chlorides will be conducted (all chloride analytical results are for documentation). When BTEX levels are below 100ppm for three (3) consecutive months, a C-141, Final Report, vent well monitoring results and supporting documentation will be submitted to the NMOCD and request closure of the site.



H402738	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	9/3/2014	Trackhoe	10'	<0.3	<10.0	<10.0	8660
S1-2'	Release Area	9/3/2014	Trackhoe	11'	<0.3	<10.0	23.8	7600
S1-3'	Release Area	9/3/2014	Trackhoe	12'	<0.3	<10.0	<10.0	6260
S1-4'	Release Area	9/3/2014	Trackhoe	13'	<0.3	<10.0	<10.0	5280
S2-1 <sup>'</sup>	Release Area	9/3/2014	Trackhoe	10'	13.1	208	1260	5600
S2-2 <sup>1</sup>	Release Area	9/3/2014	Trackhoe	11'	124	1240	5570	4800
S2-3 <sup>1</sup>	Release Area	9/3/2014	Trackhoe	12'	143	918	3780	4560
S2-41	Release Area	9/3/2014	Trackhoe	13'	118	1060	3780	3600
H403106								
S1-15'	Release Area	10/8/2014	Trackhoe	15'	N/A	N/A	N/A	6080
S1-16'	Release Area	10/8/2014	Trackhoe	16'	N/A	N/A	N/A	3840
S1-17'	Release Area	10/8/2014	Trackhoe	17'	N/A	N/A	N/A	3680
S1-18'	Release Area	10/8/2014	Trackhoe	18'	N/A	N/A	N/A	3800
S2-15 <sup>1</sup>	Release Area	10/8/2014	Trackhoe	15'	120	536	1470	80
S2-16'	Release Area	10/8/2014	Trackhoe	16'	190	353	1030	320
S2-17'	Release Area	10/8/2014	Trackhoe	17'	171	472	1230	256
S2-18 <sup>1</sup>	Release Area	10/8/2014	Trackhoe	18'	132	465	1090	240
S2-19'	Release Area	10/8/2014	Trackhoe	19'	160	553	1520	576
H403709								
S1-20'	Release Area	12/3/2014	Trackhoe	20'	N/A	N/A	N/A	1470



September 11, 2014

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

RE: NORTH DAGGER DRAW WATER STATION

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 10:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <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. 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:

09/04/2014

Sampling Date:

09/03/2014

Reported:

09/11/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATIO!

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1-1' (H402738-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	< 0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	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	8660	16.0	09/10/2014	ND	432	108	400	3.77	
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	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	<10.0	10.0	09/06/2014	ND	213	107	200	0.664	
Surrogate: 1-Chlorooctane	84.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.1	% 63.6-15	4						

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\*=Accredited Analyte

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Celeg to Freeze



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

Fax To:

Sampling Date:

09/03/2014

Received: Reported: 09/04/2014

Sampling Type:

Soil

Project Name:

09/11/2014

Sampling Condition:

Cool & Intact

Project Number:

NORTH DAGGER DRAW WATER STATIO! NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1-2' (H402738-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	< 0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	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	7600	16.0	09/10/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					2
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	23.8	10.0	09/06/2014	ND	213	107	200	0.664	
Surrogate: 1-Chlorooctane	74.7	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	89.0	% 63.6-15	4						

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\*=Accredited Analyte

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Celeg Theene -



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

Fax To:

(505) 748-4635

Received:

09/04/2014

Sampling Date:

09/03/2014

Reported:

09/11/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATION

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1-3' (H402738-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 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	6260	16.0	09/10/2014	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: ms		200 200 200			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	<10.0	10.0	09/06/2014	ND	213	107	200	0.664	
Surrogate: 1-Chlorooctane	85.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.7	% 63.6-15	4						

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Celey & Keene



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

Received:

09/04/2014

Sampling Date:

09/03/2014

Reported:

09/11/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATIO!

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1-4' (H402738-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	< 0.050	0.050	09/10/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	< 0.050	0.050	09/10/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/10/2014	ND	4.86	81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 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	5280	16.0	09/10/2014	ND	400	100	400	7.69	
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	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	<10.0	10.0	09/06/2014	ND	213	107	200	0.664	
Surrogate: 1-Chlorooctane	90.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.6	% 63.6-15	4						

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

Fax To:

Received:

09/04/2014

Sampling Date:

09/03/2014

Reported:

09/11/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATION

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2-1' (H402738-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	1.28	0.200	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	2.88	0.200	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	8.96	0.600	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	13.1	1.20	09/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	137	% 89.4-12	6			<del></del>			
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	09/10/2014	ND	400	100	400	7.69	
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	208	50.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	1260	50.0	09/06/2014	ND	213	107	200	0.664	
Surrogate: 1-Chlorooctane	117	% 65.2-14	10			· · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	118	% 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:

09/04/2014

Sampling Date:

09/03/2014

Reported:

09/11/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATION

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2-2' (H402738-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.75	1.00	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	21.3	1.00	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	24.0	1.00	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	77.1	3.00	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	124	6.00	09/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	142	% 89.4-12	6			HAROLOGIA DE LA CONTRACTOR DE LA CONTRAC			
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	09/10/2014	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: ms		-			S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1240	50.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	5570	50.0	09/06/2014	ND	213	107	200	0.664	
Surrogate: 1-Chlorooctane	200	% 65.2-14	70						
Surrogate: 1-Chlorooctadecane	167	% 63.6-15	4						

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\*=Accredited Analyte

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Calley & France



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

Fax To:

(505) 748-4635

Received:

09/04/2014

Sampling Date:

09/03/2014

Reported:

09/11/2014

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

NORTH DAGGER DRAW WATER STATIO! NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2-3' (H402738-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.78	1.00	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	32.2	1.00	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	32.1	1.00	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	77.3	3.00	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	143	6.00	09/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	140	% 89.4-12	6			***************************************			- Viere - Viere - Viere - Viere
Chloride, SM4500Cl-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	09/10/2014	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	918	50.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	3780	50.0	09/06/2014	ND	213	107	200	0.664	
Surrogate: 1-Chlorooctane	162	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	150	% 63.6-15	4						

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Freene -



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

Fax To:

(505) 748-4635

Received:

09/04/2014

Sampling Date:

09/03/2014

Reported:

09/11/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATIO!

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2-4' (H402738-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.18	1.00	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	23.0	1.00	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	23.1	1.00	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	71.0	3.00	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	118	6.00	09/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	140	% 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	3600	16.0	09/10/2014	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1060	50.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	3780	50.0	09/06/2014	ND	213	107	200	0.664	
Surrogate: 1-Chlorooctane	166	% 65.2-14	10			200			
Surrogate: 1-Chlorooctadecane	150	% 63.6-15	i <i>4</i>						

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keens



## **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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. Keens .

	Relinquished by:	Relinguished by:  Relinguished by:	Special Instructions:		82-4	0 82-3	S2-2	, ~	7 51-4	01-0	N (12)	ي يي	S1_1	AB# (lab use only) FIELD CODE	ORDER #: HUOD738	Sampler Signature:		575-748-41		Company Address: 105 South 4th Street	326	Project Manager: Chase Settle	ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240	7
	Date	Q-4-14 Date															N 	<b>→</b>	88210	n Street	um Corporation		88240	
	-	4 4												Beginning Depth										
	Time	Time												Ending Depth										
	Received by ELOT:	Received by:			0,0,0	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	Date Sampled									(505) 393-2326 FAX (505) 393-2476	
	OT:	The				10:00 AM	10:00 AM	10:00 AM	10:00 AM	9:30 AM	9:30 AM	9:30 AM	9:30 AM	Time Sampled			P Bai	Fax No:					FAX (505) 393-	
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		5						_		_	-	-	+	TPH: TX 1005 TX 1006				nat:	PO	Project Loc:	Project #:	Project Name:		CHAIN OF CUSTODY RECORD AND ANACTSIS
	Tem	Cust	Sam	_	-	_	_		-	-	+	+	+	Cations (Ca, Mg, Na, K)				×	120	122	77	15		AN.
	Temperature Upon Receipt:	Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sambler/Client Rep.? by Courier? UPS D	Sample Containers Intact? VOCs Free of Headspace?	-	$\vdash$	-	+	+	-	+	+	+	+	Anions (CI, SO4, Alkalinity) SAR / ESP / CEC	TOTAL	TCLP:		x Standard	PO #: 205750	7		7		A
	ture	seals seals seals ampli	onta ee o	$\vdash$	$\vdash$	+	+-	+	+-	+	+	+	+	Metals: As Ag Ba Cd Cr Pb He	-	TT.		anda	0	North		lort		Ä
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October 15, 2014

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

RE: NORTH DAGGER DRAW WATER STATION

Enclosed are the results of analyses for samples received by the laboratory on 10/09/14 13:30.

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. 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

(505) 748-4635 Fax To:

Received:

10/09/2014

Sampling Date:

10/08/2014

Reported:

Chloride, SM4500CI-B

10/15/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATIO!

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Sample Received By:

Project Location:

NOT GIVEN

Kathy Perez

## Sample ID: S1-15' (H403106-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	10/12/2014	ND	432	108	400	3.77	
Sample ID: S1-16' (H403	106-02)								
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	10/13/2014	ND	416	104	400	3.92	
Sample ID: S1-17' (H403	106-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	10/13/2014	ND	416	104	400	3.92	
Sample ID: S1-18' (H403	106-04)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	10/13/2014	ND	416	104	400	3.92	

Analyzed By: AP

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Celeg to trune -



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

Fax To:

(505) 748-4635

Received:

10/09/2014

Sampling Date:

10/08/2014

Reported:

10/15/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATION

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Kathy Perez

## Sample ID: S2-15' (H403106-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.835	0.500	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	28.4	0.500	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	28.1	0.500	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	63.0	1.50	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTEX	120	3.00	10/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 5	% 61-154	7		anum to a constant				
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/13/2014	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	536	50.0	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	1470	50.0	10/11/2014	ND	188	94.0	200	0.737	
Surrogate: 1-Chlorooctane	137	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	130	% 52.1-17	6						

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\*=Accredited Analyte

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Celeg & Freeze



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

Received:

10/09/2014

Sampling Date:

10/08/2014

Reported:

10/15/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATION

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S2-16' (H403106-06)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.13	1.00	10/15/2014	ND	1.88	93.9	2.00	4.94	
Toluene*	50.7	1.00	10/15/2014	ND	1.79	89.4	2.00	4.98	
Ethylbenzene*	40.0	1.00	10/15/2014	ND	1.70	85.1	2.00	4.62	
Total Xylenes*	95.2	3.00	10/15/2014	ND	5.06	84.3	6.00	4.69	
Total BTEX	190	6.00	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 61-154							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/13/2014	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	353	50.0	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	1030	50.0	10/11/2014	ND	188	94.0	200	0.737	
Surrogate: 1-Chlorooctane	130	% 47.2-157	7	· However a second of the second					

Surrogate: 1-Chlorooctadecane

131 %

52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Kuna



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

Received:

10/09/2014

Sampling Date:

10/08/2014

Reported:

Sampling Type:

Soil

10/15/2014

Sampling Condition:

Cool & Intact

Project Name: Project Number: NORTH DAGGER DRAW WATER STATIO!

Sample Received By:

Kathy Perez

Project Location:

NONE GIVEN NOT GIVEN

Sample ID: S2-17' (H403106-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.29	0.500	10/14/2014	ND	1.88	93.9	2.00	4.94	
Toluene*	43.3	0.500	10/14/2014	ND	1.79	89.4	2.00	4.98	
Ethylbenzene*	40.1	0.500	10/14/2014	ND	1.70	85.1	2.00	4.62	
Total Xylenes*	84.7	1.50	10/14/2014	ND	5.06	84.3	6.00	4.69	
Total BTEX	171	3.00	10/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116	% 61-154							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/13/2014	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	472	50.0	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	1230	50.0	10/11/2014	ND	188	94.0	200	0.737	
Surrogate: 1-Chlorooctane	133	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	131	% 52.1-17	6						

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Celleg & Freene -



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

Fax To:

(505) 748-4635

Received:

10/09/2014

Sampling Date:

10/08/2014

Reported:

10/15/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATIO!

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

NOT GIVEN

Kathy Perez

## Sample ID: S2-18' (H403106-08)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.83	0.500	10/14/2014	ND	1.88	93.9	2.00	4.94	
Toluene*	32.0	0.500	10/14/2014	ND	1.79	89.4	2.00	4.98	
Ethylbenzene*	32.1	0.500	10/14/2014	ND	1.70	85.1	2.00	4.62	
Total Xylenes*	65.6	1.50	10/14/2014	ND	5.06	84.3	6.00	4.69	
Total BTEX	132	3.00	10/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117	% 61-154							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/13/2014	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	465	50.0	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	1090	50.0	10/11/2014	ND	188	94.0	200	0.737	
Surrogate: 1-Chlorooctane	135	% 47.2-15	7				<u> </u>		
Surrogate: 1-Chlorooctadecane	129	% 52.1-17	6						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg to true -



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

Fax To:

o: (505) 748-4635

Received:

10/09/2014

Sampling Date:

10/08/2014

Reported:

10/15/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATION

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S2-19' (H403106-09)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.07	0.500	10/14/2014	ND	1.88	93.9	2.00	4.94	
Toluene*	43.5	0.500	10/14/2014	ND	1.79	89.4	2.00	4.98	
Ethylbenzene*	36.4	0.500	10/14/2014	ND	1.70	85.1	2.00	4.62	
Total Xylenes*	76.3	1.50	10/14/2014	ND	5.06	84.3	6.00	4.69	
Total BTEX	160	3.00	10/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1169	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/13/2014	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	553	50.0	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	1520	50.0	10/11/2014	ND	188	94.0	200	0.737	
Surrogate: 1-Chlorooctane	133	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	128	% 52.1-17	6						

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Calley & treens.



#### **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  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celley & Keene

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	hed by:	hed by:	bed by:	Special Instructions:		\$2-19'	\$2-18'	\$2-17	\$2-16"	\$2-15	S1-18'	S1-17 <sup>'</sup>	S1-16'	S1-15'	FIELD CODE	# 40000		Sampler Signature:			la ora	Company Address: 105 Se	Comp: (505) 393-2326 Yates Petroleum Corporation	Project Manager. Chase Sellie	ara	ARDINAL LABORATORIES	,
	Date	Date	b-9-14												Ж				1	575-748-4171	Artesia, NM 88210	105 South 4th Street	Petroleum Corporation	Settle	OBS, NM 88240	ORIES	
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	Time	Time	OC TIME						نہدیا					Γ	Ending Depth				1								
	Received by ELOT:	Received by:	Received by:			10/8/2014	10/8/2014	10/8/2014	10/8/2014	10/8/2014	10/8/2014	10/8/2014	10/8/2014	10/8/2014	Date Sampled										(303) 330 505	(505) 393-2326 FAX (505) 393-2476	
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	Tem	Sam	Cust	Sam	2	4	1	4	-	+	+	+	+	+	Cations (Ca, Mg, Na, K)		-				#: 20	8	-		.e.		A
	pera	by S	tody	ple (	-	+	+	4	+-	+-	+	+	+	+	Anions (CI, SO4, Alkalinity) SAR / ESP / CEC		TOTAL:			S	205750	_			-		D A
	Temperature Upon Receipt	nple Hand Delivered by Sample Client Rep. by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	aboratory Comments:	+	+	+	+	+	+	+	+	+	Metals: As Ag Ba Cd Cr Pb H	g Se	L 3			x Standard	00	North			North Dagger Draw Water Station		NAI
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December 08, 2014

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

RE: NORTH DAGGER DRAW WATER STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/04/14 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 <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.

Celes 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:

12/04/2014

Sampling Date:

12/03/2014

Reported:

12/08/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATIO!

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Kathy Perez

#### Sample ID: S1 - 20' (H403709-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	12/05/2014	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Frence -



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RPD Relative Percent Difference

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\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-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

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Celeg & treens -

	Relinquished by	Relinguished by	Special Instructions:								LAB # (lab use only)	ORDER #:	, lab use only)		SS	Te	Ω	S	ς.	Pr	50	3
	d by:		:tructions:							S1-20'	FIELD CODE	#40000	_		Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Comp; (505) 393-2326 Yates Petroleum Corporation	Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	•
	Date	Date 12-4-14 Date										_			Y		210	treet	Corporation		8240	
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	Time	Time									Ending Depth											
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	Temperature Upon Receipt	Labets on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep.? by Couner? UPS DI	Sample Containers Intact? VOCs Free of Headspace?	-	+	+-+	+-	+	$\dashv$	+	Anions (CI, SO4, Alkalinity)  SAR / ESP / CEC		TOTAL	TCLP:		x Standard	PO #: 205750					
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December 23, 2014

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

RE: NORTH DAGGER DRAW WATER STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 16:10.

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

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:

12/18/2014

Sampling Date:

12/15/2014

Reported:

12/23/2014

Sampling Type:

Soil

Project Name:

NORTH DAGGER DRAW WATER STATIO!

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Kathy Perez

## Sample ID: STOCKPILE (H403877-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2014	ND	1.75	87.5	2.00	8.93	
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
Ethylbenzene*	< 0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Total BTEX	<0.300	0.300	12/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 61-154	1						
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	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	387	10.0	12/22/2014	ND	204	102	200	1.30	
Surrogate: 1-Chlorooctane	91.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	102	% 52.1-17	76						

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Celey & Frence -



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RPD Relative Percent Difference

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\*\*\* 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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Calay & Keena

Relinquished by:  Relinquished by:  Relinquished by:	Stockpile		& ture:		ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240  Project Manager: Chase Settle  Compt (505) 393-232t Yates Petroleum Corporation  Company Address: 105 South 4th Street
Date Time 12 - 18 - 14 Date Time Date Time		Beginning Depth Ending Depth		8210	38240 n Corporation
Received by ELOT:	72/15/2014				(505) 393-2326 F
de C	S.SO FIN	Field Filtered		Fax No:	(505) 393-2326 FAX (505) 393-2476
		<ul> <li>✓ Ice</li> <li>HNO<sub>3</sub></li> <li>HCi</li> <li>H<sub>2</sub>SO<sub>4</sub></li> </ul>	CSettle@yatespo	575-748-4131	
Date		NaOH  Na <sub>3</sub> S <sub>2</sub> O <sub>3</sub> None  Other ( Specify)  DW=Drinking Water SL=Sludge	etroleum.c	72	Project Name: North Dagger Draw W Project #: Project Loc: North Dagger Draw W
Time Cut	;	<ul> <li>GW = Groundwater S=Soit/Solid NP=Non-Potable Specify Other</li> <li>★ TPH: 418.1 8015M 8015</li> <li>TPH: TX 1005 TX 1006</li> <li>Cations (Ca, Mg, Na, K)</li> </ul>	×.	PO#: 2	Project Name: Project #: Project Loc:
Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Labels on container(s) Custody seals on cooler(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep.? by Counier? UPS DI Temperature Upon Receipt:		Anions (CI, SO4, Alkalinity)  SAR / ESP / CEC  Metals: As Ag Ba Cd Cr Pb Hg S  Volatiles  Semivolatiles	nalyze	205-0750 × Standard	North Dagge North Dagge
t DHL F		BTEX 8021B/5030 or BTEX 826     RCI     N.O.R.M.     Chlorides     SAD	50	TRRP	/ater
Cone Szzzzzzz		RUSH TAT (Pre-Schedule) 24  X Standard TAT	, 48, 72 hrs	NPDES	Station Page 4 of 4