

MARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES  
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CHIEF OPERATING OFFICER

July 8, 2014

Dr. Tomas Oberding  
NMOCD District I  
1625 N. French Drive  
Hobbs, New Mexico 88240

Re: Belco AIA Federal Battery  
30-025-26826  
Section 14, T20S-R32E  
Lea County, New Mexico

Dr. Oberding:

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 April 9, 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 July 22, 2014.**

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

Thank you.

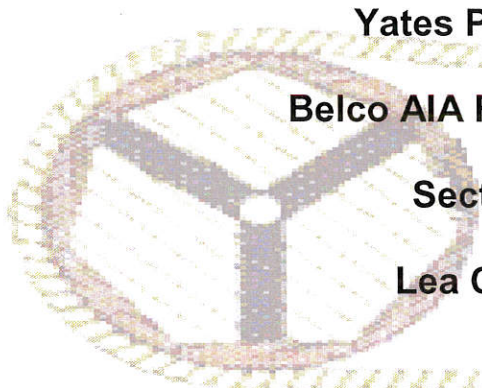
YATES PETROLEUM CORPORATION

Chase Settle  
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER  
SECRETARY

DENNIS G. KINSEY  
TREASURER



**Yates Petroleum Corporation**

**Belco AIA Federal Battery Work Plan**

**Section 14, T20S-R32E**

**Lea County, New Mexico**

**July 8, 2014**

**I. Location**

The well is located approximately 33 miles east of Carlsbad, NM and 2 miles north west off of Laguna Road.

**II. Background**

On April 9, 2014, Yates submitted to the NMOCD District I office a Form C-141 for the release of 10 B/O and 290 B/PW with 0 B/O and 150 B/PW recovered. The affected area is approximately 221 feet by 77 feet area immediately south of the battery off location and area 150 feet by 60 feet north and east of the battery on the production pad. The release was from failure of a poly transfer line causing oil and produced water to be released. Release originated behind the battery on the south side and flowed around the east side of the battery to the front (north) of the battery. Initial delineation samples were taken (04/17/2014) and sent to a NMOCD approved laboratory (04/28/2014, results enclosed). Subsequent sampling was conducted in the S1 and S2 sample area (05/29/2014) and sent to a NMOCD approved laboratory (06/05/2014, results enclosed). Sampling again occurred in the S1 area (06/18/2014) and sent to a NMOCD approved laboratory (07/02/2014, results enclosed).

**III. Surface and Ground Water**

Area surface geology is Cenozoic Quaternary. Previous core data indicates that no groundwater was discovered above 76 feet, making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the as following:

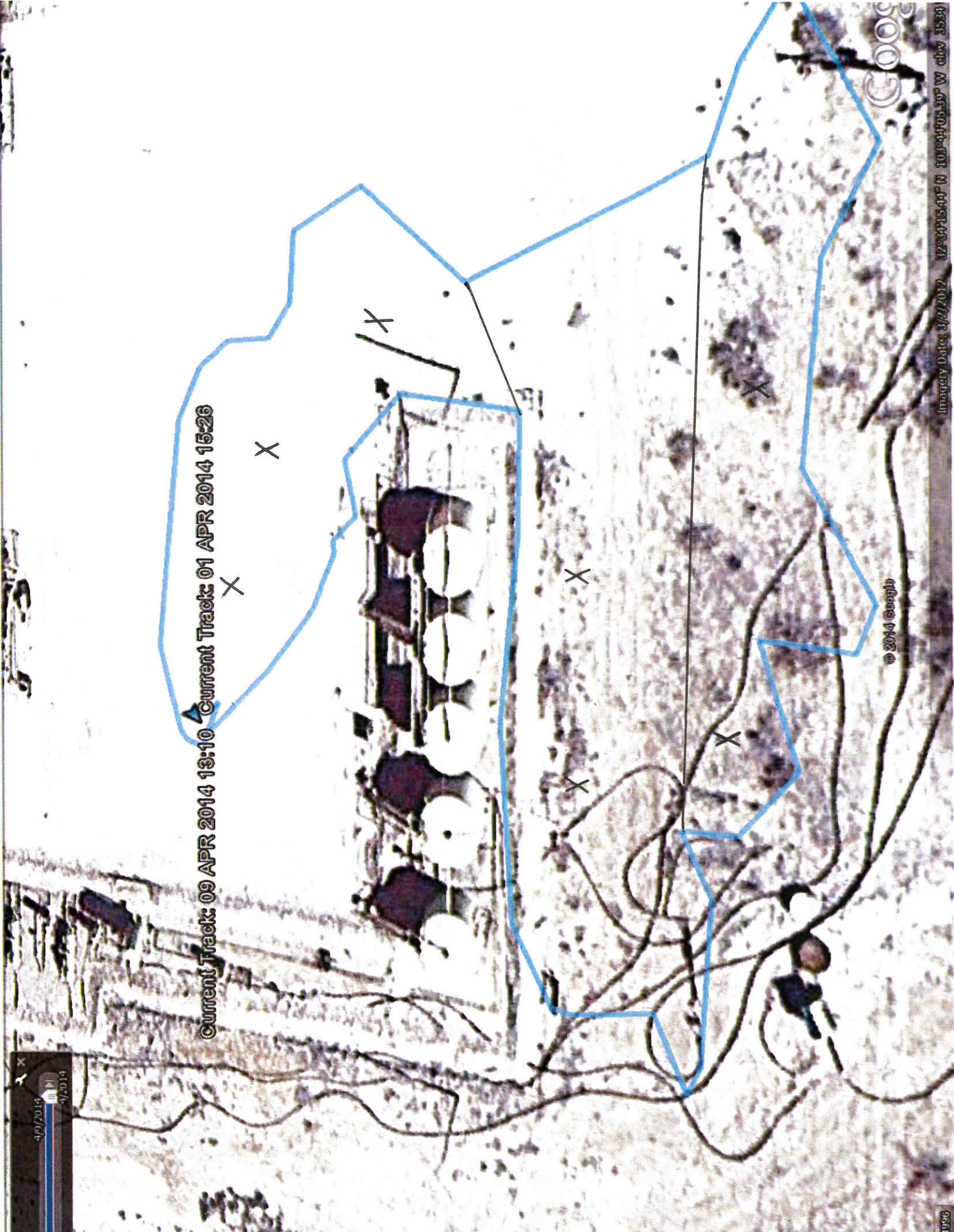
Depth to ground water	50-99'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

**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.

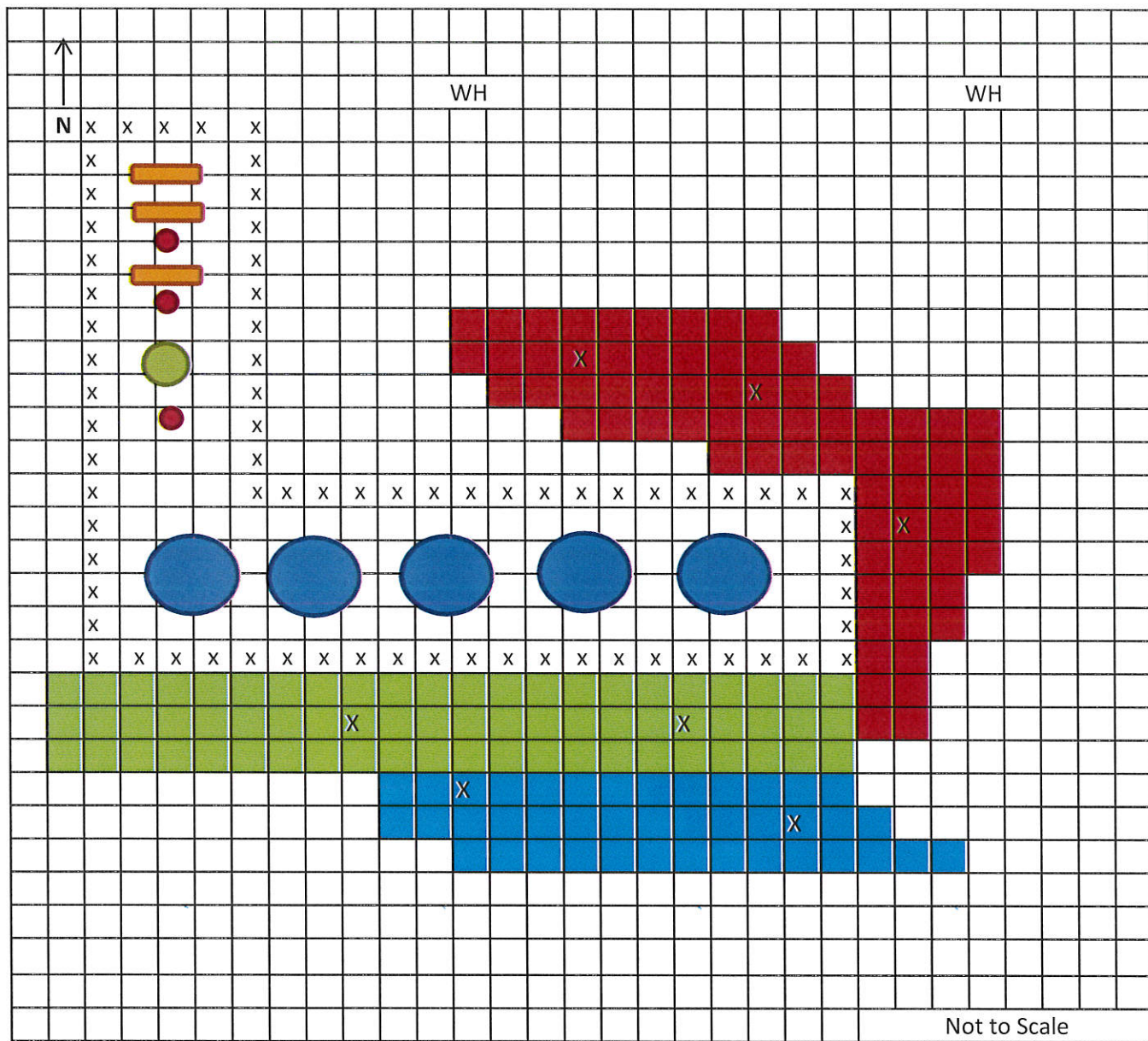
**V. Scope of Work**

Based on enclosed analytical results, the depth to groundwater (>76"), and a decrease in chlorides, Yates Petroleum Corporation will excavate four (4) feet of impacted soil within the S1 and S2 sample areas. Based on analytical results, there will be no further excavation in the S3 sample area. All excavated soil will be hauled to a NMOCD approved facility for disposal. Yates Petroleum Corporation will then install a 20 ml liner over the S1 and S2 release area with six (6) inches of sand above and below the liner for cushion. The remaining excavated area will be backfilled with one (1) foot of caliche and two (2) feet of like, similar topsoil allowing for vegetative repopulation of the disturbed area and protection from groundwater contamination. Caliche backfill will consist of a small stockpile of soil on location that will have analytical tests conducted for TPH and BTEX (chlorides for documentation) to prove soil is under RRAL for the site ranking ten (10) before being used as backfill material. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), 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.



Current Track: 09 APR 2014 13:10 Current Track: 01 APR 2014 15:26

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Release Area



S2 Area



S1 Area



S3 Area

H401205	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	4/17/2014	Backhoe	1'	<0.3	<10.0	44	8600
S1-3'	Release Area	4/17/2014	Backhoe	3'	<0.3	<10.0	<10.0	2880
S1-5'	Release Area	4/17/2014	Backhoe	5'	<0.3	<10.0	<10.0	4960
S2-1'	Release Area	4/17/2014	Backhoe	1'	<0.3	<10.0	<10.0	8720
S2-3'	Release Area	4/17/2014	Backhoe	3'	<0.3	<10.0	<10.0	5880
S2-5'	Release Area	4/17/2014	Backhoe	5'	<0.3	<10.0	<10.0	320
S3-1'	Release Area	4/17/2014	Backhoe	1'	<0.3	<10.0	<10.0	96
S3-3'	Release Area	4/17/2014	Backhoe	3'	<0.3	<10.0	<10.0	112
S3-5'	Release Area	4/17/2014	Backhoe	5'	<0.3	<10.0	<10.0	160

H401675								
S1-6'	Release Area	5/29/2014	Backhoe	6'	N/A	N/A	N/A	3680
S1-7'	Release Area	5/29/2014	Backhoe	7'	N/A	N/A	N/A	4120
S1-8'	Release Area	5/29/2014	Backhoe	8'	N/A	N/A	N/A	4800
S2-4'	Release Area	5/29/2014	Backhoe	4'	N/A	N/A	N/A	880
H401924								
S1-9'	Release Area	6/18/2014	Backhoe	9'	N/A	N/A	N/A	3720
S1-10'	Release Area	6/18/2014	Backhoe	10'	N/A	N/A	N/A	4280
S1-11'	Release Area	6/18/2014	Backhoe	11'	N/A	N/A	N/A	3120
S1-12'	Release Area	6/18/2014	Backhoe	12'	N/A	N/A	N/A	1410

nking is Zero (10). DTGW 50-99' (>76', Section 14, T20S-R32E, no groundwater present previous core data 9/17

All results are ppm. Chlorides for documentation

Released: 10 B/O, 290 B/PW; Recovered: 0 B/O, 150 B/PW Release Date: 03/29/2014



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

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April 28, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 04/22/14 14:30.

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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/22/2014  
 Reported: 04/28/2014  
 Project Name: BELCO AIA FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/17/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1-1' (H401205-01)**

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	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 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	8600	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	191	95.5	200	7.88	
DRO >C10-C28	44.0	10.0	04/23/2014	ND	210	105	200	9.28	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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: 04/22/2014  
Reported: 04/28/2014  
Project Name: BELCO AIA FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1-3' (H401205-02)**

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	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.7 % 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	2880	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	191	95.5	200	7.88	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	210	105	200	9.28	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.8 % 63.6-154

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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:	04/22/2014	Sampling Date:	04/17/2014
Reported:	04/28/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S1-5' (H401205-03)**

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	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	4960	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	191	95.5	200	7.88	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	210	105	200	9.28	

Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.6 % 63.6-154

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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:	04/22/2014	Sampling Date:	04/17/2014
Reported:	04/28/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S2-1' (H401205-04)**

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	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.9 % 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	8720	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	191	95.5	200	7.88	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	210	105	200	9.28	

Surrogate: 1-Chlorooctane 98.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.8 % 63.6-154

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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:	04/22/2014	Sampling Date:	04/17/2014
Reported:	04/28/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S2-3' (H401205-05)**

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	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.5 % 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	5880	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	191	95.5	200	7.88	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	210	105	200	9.28	

Surrogate: 1-Chlorooctane 99.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.7 % 63.6-154

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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:	04/22/2014	Sampling Date:	04/17/2014
Reported:	04/28/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S2-5' (H401205-06)**

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	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.2 % 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	320	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	191	95.5	200	7.88	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	210	105	200	9.28	

Surrogate: 1-Chlorooctane 79.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.6 % 63.6-154

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:	04/22/2014	Sampling Date:	04/17/2014
Reported:	04/28/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S3-1' (H401205-07)**

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	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 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	96.0	16.0	04/24/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/23/2014	ND	191	95.5	200	7.88		
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	210	105	200	9.28		

Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.0 % 63.6-154

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:	04/22/2014	Sampling Date:	04/17/2014
Reported:	04/28/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S3-3' (H401205-08)**

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	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	<0.050	0.050	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTEX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 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	112	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	191	95.5	200	7.88	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	210	105	200	9.28	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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:	04/22/2014	Sampling Date:	04/17/2014
Reported:	04/28/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S3-5' (H401205-09)**

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	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	<0.050	0.050	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTEX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	160	16.0	04/24/2014	ND	400	100	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	191	95.5	200	7.88	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	210	105	200	9.28	

Surrogate: 1-Chlorooctane 95.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.9 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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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

Fax No: 575-748-4131

Sampler Signature:

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

Project Name: Belco AIA Federal #1

Project #:

Project Loc: Belco AIA Federal #1

PO #: 205750

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Lab use only)

ORDER #: H401205

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
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1	S1-1'			4/17/2014	10:30 AM		1	X								S	X															X
2	S1-3'			4/17/2014	10:30 AM		1	X								S	X															X
3	S1-5'			4/17/2014	10:30 AM		1	X								S	X															X
4	S2-1'			4/17/2014	10:30 AM		1	X								S	X															X
5	S2-3'			4/17/2014	10:30 AM		1	X								S	X															X
6	S2-5'			4/17/2014	10:30 AM		1	X								S	X															X
7	S3-1'			4/17/2014	12:00		1	X								S	X															X
8	S3-3'			4/17/2014	12:00		1	X								S	X															X
9	S3-5'			4/17/2014	12:00 PM		1	X								S	X															X

Special Instructions:

Relinquished by:

Date: 4/22/14 Time: 2:30pm

Received by:

Date: 4/22/14 Time: 2:30pm

Relinquished by:

Date: Time:

Received by: ELDT:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Laboratory Comments:

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

Temperature Upon Receipt: -1.6 °C



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

---

June 05, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 05/30/14 14:55.

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

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/05/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S1-6' (H401675-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	06/05/2014	ND	400	100	400	0.00	

**Sample ID: S1-7' (H401675-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	06/05/2014	ND	400	100	400	0.00	

**Sample ID: S1-8' (H401675-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	06/05/2014	ND	416	104	400	3.92	

**Sample ID: S2-4' (H401675-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	06/05/2014	ND	416	104	400	3.92	

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



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: 575-748-4131

Sampler Signature:

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

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205750

Project Name: Belco AIA Federal #1

Project #: Belco AIA Federal #1

Project Loc: Belco AIA Federal #1

ab use only)

ORDER #: H401675

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT			
1	S1-6'			5/29/2014	12:00 PM		1									S															X	X		
2	S1-7'			5/29/2014	12:00 PM		1									S														X	X			
3	S1-8'			5/29/2014	12:00 PM		1									S													X	X	X			
4	S2-4'			5/29/2014	11:00 AM		1									S													X	X	X			
Special Instructions:																																		
Relinquished by:		Date: 5-30-14	Time:	Received by:	Date: 5/30/14	Time: 12:55																												
Relinquished by:		Date:	Time:	Received by: ELOTT:	Date:	Time:																												
Relinquished by:		Date:	Time:	Received by:	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:																																		



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

July 02, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL #1

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/25/2014	Sampling Date:	06/18/2014
Reported:	07/02/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

**Sample ID: S1-9' (H401924-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	06/30/2014	ND	416	104	400	0.00	

**Sample ID: S1-10' (H401924-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	06/30/2014	ND	416	104	400	0.00	

**Sample ID: S1-11' (H401924-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	06/30/2014	ND	416	104	400	0.00	

**Sample ID: S1-12' (H401924-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	06/30/2014	ND	416	104	400	0.00	

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Coley D. Keene, Lab Director/Quality Manager

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=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

Company: (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: [Signature] e-mail: [csettle@yatespetroleum.com](mailto:csettle@yatespetroleum.com)

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Belco AIA Federal #1

Project #:

Project Loc: Belco AIA Federal #1

PO #: 205750

ORDER #: 4401924

3b use only)

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Special Instructions:

[Redacted Special Instructions]

Relinquished by: [Signature] Date: 6-25-14 Time: 11:38am Received by: [Signature] Date: 6/25/14 Time: 11:14

Relinquished by: [Signature] Date: [Blank] Time: [Blank] Received by: [Signature] Date: 6/25/14 Time: 4:14

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Sample Hand Delivered by Courier? UPS DHL

Temperature Upon Receipt: 60.0 °C

Analyze For:

TCLP: [Blank] TOTAL: [Blank]

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