

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

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JOHN A. YATES
CHAIRMAN EMERITUS

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CHIEF EXECUTIVE OFFICER

JOHN D. PERINI
CHIEF FINANCIAL OFFICER

March 8, 2016

Ms. Kellie Jones/Mr. Jamie Keyes
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

RECEIVED

By JKeyes at 1:47 pm, Mar 08, 2016

APPROVED

By JKeyes at 1:47 pm, Mar 08, 2016

Ms. Jones/Mr. Keyes:

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 reports dated June 30, 2015 and October 8, 2015.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after April 8, 2016.

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

JAMES D. SCHAFER
TREASURER

Yates Petroleum Corporation

Belco AIA Federal Battery Work Plan

Section 14, T20S-R32E

Lea County, New Mexico

March 8, 2016

1RP- 3711

1RP- 3903

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 June 30, 2015, Yates submitted to the NMOCD District I office a Form C-141 for the release of 2 B/O and 148 B/PW with 0 B/O and 130 B/PW recovered. Then on October 8, 2015, Yates submitted to the NMOCD District I office a Form C-141 for the release of 300 B/PW with 270 B/PW recovered. The affected area for both releases is approximately 170 feet by 16 feet area immediately south of the battery off location and an area 318 feet by 60 feet east and north of the battery across the production pad. Failure of a poly transfer line caused 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 (11/5/2015) and sent to a NMOCD approved laboratory (11/20/2015 & 12/02/2015, results enclosed). Subsequent sampling was conducted in the S4 and S5 sample area (12/18/2015) and sent to a NMOCD approved laboratory (01/08/2016, 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:

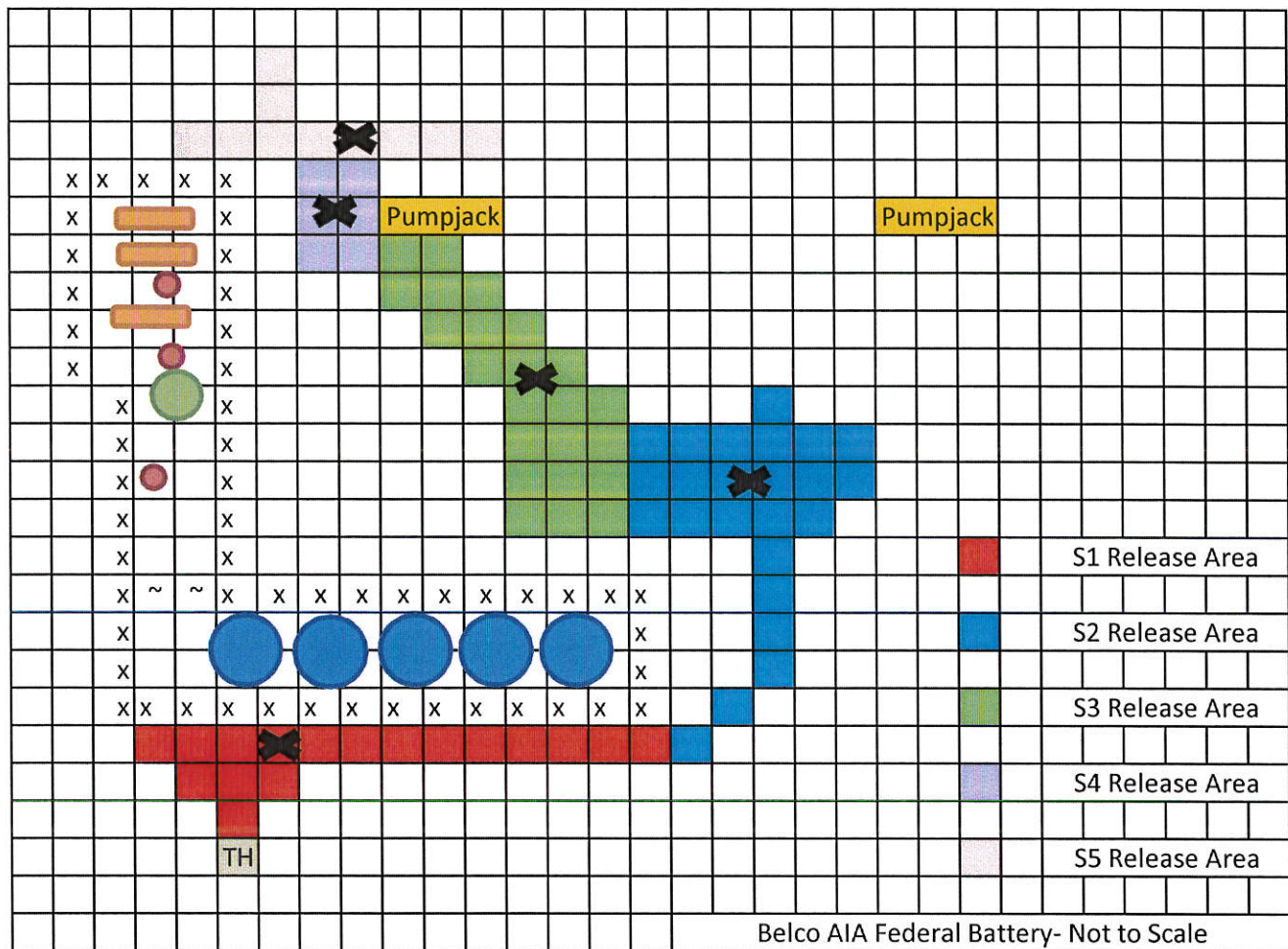
Depth to ground water	50-99'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

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'), a liner already installed in the S1 area at 3' BSL, and a decrease in chlorides, Yates Petroleum Corporation will excavate four (4) feet of impacted soil within the S4 and S5 sample areas. A 20 ml synthetic liner will then be installed in the bottom of the excavation that will prevent any further migration of chlorides. The S4 area will be backfilled with four (4) feet of caliche and the S5 area will be backfilled with the first two (2) feet of excavated material from that area (when the 1' and 2' sections from the S5 area are blended together during the backfill process the average chloride concentration will be 525 mg/kg), followed by two (2) feet of topsoil to reestablish vegetation. All excavated soil from the S4 area and the bottom two (2) feet from the S5 area will be hauled to a NMOCD approved facility for disposal. Based on analytical results, there will be no further excavation in the S1, S2, and S3 sample areas beyond the six (6) to eight (8) inches that was removed during the initial scrape. 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, will be submitted to the NMOCD requesting closure of the site.



Site Ranking is ten (10).

DTGW 50-99' (>76', Section 14, T20S-R32E, no groundwater present previous core data 9/17/2007)

All results are ppm. Chlorides for documentation

Released: 2 B/O & 148 B/PW; Recovered: 0 B/O & 130 B/PW Release Date: 06/19/2015 1RP-3711

Released: 300 B/PW; Recovered: 270 B/PW Release Date: 07/26/2015 1RP-3903

Sample ID	Analytical ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	1511383	11/5/2015	Backhoe	1'	ND	ND	ND	1000
S2-2'	1511383	11/5/2015	Backhoe	2'	ND	ND	ND	310
S2-1'	1511383	11/5/2015	Backhoe	1'	ND	ND	ND	520
S2-2'	1511383	11/5/2015	Backhoe	2'	ND	ND	ND	560
S2-3'	H503110	11/5/2015	Backhoe	3'	N/A	N/A	N/A	400
S2-4'	H503110	11/5/2015	Backhoe	4'	N/A	N/A	N/A	208
S2-5'	H503110	11/5/2015	Backhoe	5'	N/A	N/A	N/A	272
S2-6'	H503110	11/5/2015	Backhoe	6'	N/A	N/A	N/A	480
S2-7'	H503110	11/5/2015	Backhoe	7'	N/A	N/A	N/A	400
S3-1'	1511383	11/5/2015	Backhoe	1'	ND	ND	ND	48
S3-2'	1511383	11/5/2015	Backhoe	2'	ND	ND	ND	1900
S3-3'	H503111	11/5/2015	Backhoe	3'	N/A	N/A	N/A	704
S3-4'	H503111	11/5/2015	Backhoe	4'	N/A	N/A	N/A	464

S3-5'	H503111	11/5/2015	Backhoe	5'	N/A	N/A	N/A	560
S3-6'	H503111	11/5/2015	Backhoe	6'	N/A	N/A	N/A	496
S3-7'	H503111	11/5/2015	Backhoe	7'	N/A	N/A	N/A	672
S4-1'	1511383	11/5/2015	Backhoe	1'	ND	ND	ND	3200
S4-2'	1511383	11/5/2015	Backhoe	2'	ND	ND	ND	2400
S4-3'	H503112	11/5/2015	Backhoe	3'	N/A	N/A	N/A	3560
S4-4'	H503112	11/5/2015	Backhoe	4'	N/A	N/A	N/A	3840
S4-5'	H503112	11/5/2015	Backhoe	5'	N/A	N/A	N/A	2880
S4-6'	H503112	11/5/2015	Backhoe	6'	N/A	N/A	N/A	2520
S4-7'	H503112	11/5/2015	Backhoe	7'	N/A	N/A	N/A	2200
S4-10'	1512 B04	12/18/2015	Core Rig	10'	N/A	N/A	N/A	780
S4-15'	1512 B04	12/18/2015	Core Rig	15'	N/A	N/A	N/A	710
S5-1'	1511383	11/5/2015	Backhoe	1'	ND	ND	ND	170
S5-2'	1511383	11/5/2015	Backhoe	2'	ND	ND	ND	880
S5-3'	H503113	11/5/2015	Backhoe	3'	N/A	N/A	N/A	4480
S5-4'	H503113	11/5/2015	Backhoe	4'	N/A	N/A	N/A	10700
S5-5'	H503113	11/5/2015	Backhoe	5'	N/A	N/A	N/A	2880
S5-6'	H503113	11/5/2015	Backhoe	6'	N/A	N/A	N/A	1840
S5-7'	H503113	11/5/2015	Backhoe	7'	N/A	N/A	N/A	3200
S5-10'	1512 B04	12/18/2015	Core Rig	10'	N/A	N/A	N/A	8400
S5-15'	1512 B04	12/18/2015	Core Rig	15'	N/A	N/A	N/A	8000
S5-20'	1512 B04	12/18/2015	Core Rig	20'	N/A	N/A	N/A	7000
S5-25'	1512 B04	12/18/2015	Core Rig	25'	N/A	N/A	N/A	4500
S5-30'	1512 B04	12/18/2015	Core Rig	30'	N/A	N/A	N/A	2000
S5-35'	1512 B04	12/18/2015	Core Rig	35'	N/A	N/A	N/A	6300
S5-40'	1512 B04	12/18/2015	Core Rig	40'	N/A	N/A	N/A	2900
S5-45'	1512 B04	12/18/2015	Core Rig	45'	N/A	N/A	N/A	290



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 20, 2015

Chase Settle

Yates Petroleum Corporation

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4217

FAX

RE: Belco AIA-Federal Battery

OrderNo.: 1511383

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 10 sample(s) on 11/10/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1511383

Date Reported: 11/20/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S1-1'

Project: Belco AIA-Federal Battery

Collection Date: 11/5/2015 8:46:00 AM

Lab ID: 1511383-001

Matrix: SOIL

Received Date: 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1000	30		mg/Kg	20	11/16/2015 5:35:48 PM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2015 1:51:37 PM	22273
Surr: DNOP	94.0	70-130		%REC	1	11/11/2015 1:51:37 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2015 3:04:27 PM	22278
Surr: BFB	87.3	75.4-113		%REC	1	11/11/2015 3:04:27 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	11/11/2015 3:04:27 PM	22278
Toluene	ND	0.049		mg/Kg	1	11/11/2015 3:04:27 PM	22278
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2015 3:04:27 PM	22278
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2015 3:04:27 PM	22278
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	11/11/2015 3:04:27 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1511383

Date Reported: 11/20/2015

CLIENT: Yates Petroleum Corporation**Client Sample ID:** S1-2'**Project:** Belco AIA-Federal Battery**Collection Date:** 11/5/2015 8:49:00 AM**Lab ID:** 1511383-002**Matrix:** SOIL**Received Date:** 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	310	30		mg/Kg	20	11/16/2015 6:13:02 PM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/11/2015 2:12:53 PM	22273
Surr: DNOP	89.5	70-130		%REC	1	11/11/2015 2:12:53 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2015 5:00:21 PM	22278
Surr: BFB	86.1	75.4-113		%REC	1	11/11/2015 5:00:21 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	11/11/2015 5:00:21 PM	22278
Toluene	ND	0.047		mg/Kg	1	11/11/2015 5:00:21 PM	22278
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2015 5:00:21 PM	22278
Xylenes, Total	ND	0.094		mg/Kg	1	11/11/2015 5:00:21 PM	22278
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	11/11/2015 5:00:21 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 1511383

Date Reported: 11/20/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S2-1'

Project: Belco AIA-Federal Battery

Collection Date: 11/5/2015 8:56:00 AM

Lab ID: 1511383-003

Matrix: SOIL

Received Date: 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	520	30		mg/Kg	20	11/16/2015 6:25:27 PM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2015 2:34:07 PM	22273
Surr: DNOP	94.9	70-130		%REC	1	11/11/2015 2:34:07 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/11/2015 5:23:34 PM	22278
Surr: BFB	86.8	75.4-113		%REC	1	11/11/2015 5:23:34 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	11/11/2015 5:23:34 PM	22278
Toluene	ND	0.046		mg/Kg	1	11/11/2015 5:23:34 PM	22278
Ethylbenzene	ND	0.046		mg/Kg	1	11/11/2015 5:23:34 PM	22278
Xylenes, Total	ND	0.093		mg/Kg	1	11/11/2015 5:23:34 PM	22278
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	11/11/2015 5:23:34 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511383

Date Reported: 11/20/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: S2-2'

Project: Belco AIA-Federal Battery

Collection Date: 11/5/2015 9:01:00 AM

Lab ID: 1511383-004

Matrix: SOIL

Received Date: 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	560	30		mg/Kg	20	11/16/2015 6:37:51 PM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/11/2015 2:55:36 PM	22273
Surr: DNOP	95.8	70-130		%REC	1	11/11/2015 2:55:36 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2015 5:46:55 PM	22278
Surr: BFB	86.1	75.4-113		%REC	1	11/11/2015 5:46:55 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	11/11/2015 5:46:55 PM	22278
Toluene	ND	0.048		mg/Kg	1	11/11/2015 5:46:55 PM	22278
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2015 5:46:55 PM	22278
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2015 5:46:55 PM	22278
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	11/11/2015 5:46:55 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 1511383

Date Reported: 11/20/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S3-1'

Project: Belco AIA-Federal Battery

Collection Date: 11/5/2015 9:35:00 AM

Lab ID: 1511383-005

Matrix: SOIL

Received Date: 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	48	30		mg/Kg	20	11/16/2015 6:50:16 PM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/11/2015 3:16:44 PM	22273
Surr: DNOP	96.7	70-130		%REC	1	11/11/2015 3:16:44 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2015 6:10:04 PM	22278
Surr: BFB	85.3	75.4-113		%REC	1	11/11/2015 6:10:04 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	11/11/2015 6:10:04 PM	22278
Toluene	ND	0.047		mg/Kg	1	11/11/2015 6:10:04 PM	22278
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2015 6:10:04 PM	22278
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2015 6:10:04 PM	22278
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	11/11/2015 6:10:04 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511383

Date Reported: 11/20/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: S3-2'

Project: Belco AIA-Federal Battery

Collection Date: 11/5/2015 9:41:00 AM

Lab ID: 1511383-006

Matrix: SOIL

Received Date: 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1900	75		mg/Kg	50	11/19/2015 10:36:52 AM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/11/2015 3:38:01 PM	22273
Surr: DNOP	93.9	70-130		%REC	1	11/11/2015 3:38:01 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2015 6:33:25 PM	22278
Surr: BFB	87.0	75.4-113		%REC	1	11/11/2015 6:33:25 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	11/11/2015 6:33:25 PM	22278
Toluene	ND	0.048		mg/Kg	1	11/11/2015 6:33:25 PM	22278
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2015 6:33:25 PM	22278
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2015 6:33:25 PM	22278
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	11/11/2015 6:33:25 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S4-1'

Project: Belco AIA-Federal Battery

Collection Date: 11/5/2015 10:20:00 AM

Lab ID: 1511383-007

Matrix: SOIL

Received Date: 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	3200	150		mg/Kg	100	11/19/2015 10:49:17 AM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/11/2015 3:59:22 PM	22273
Surr: DNOP	85.5	70-130		%REC	1	11/11/2015 3:59:22 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/12/2015 3:32:31 PM	22278
Surr: BFB	84.8	75.4-113		%REC	1	11/12/2015 3:32:31 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	11/12/2015 3:32:31 PM	22278
Toluene	ND	0.048		mg/Kg	1	11/12/2015 3:32:31 PM	22278
Ethylbenzene	ND	0.048		mg/Kg	1	11/12/2015 3:32:31 PM	22278
Xylenes, Total	ND	0.095		mg/Kg	1	11/12/2015 3:32:31 PM	22278
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	11/12/2015 3:32:31 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511383

Date Reported: 11/20/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: S4-2'

Project: Belco AIA-Federal Battery

Collection Date: 11/5/2015 10:25:00 AM

Lab ID: 1511383-008

Matrix: SOIL

Received Date: 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2400	75		mg/Kg	50	11/19/2015 11:01:41 AM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/11/2015 4:20:34 PM	22273
Surr: DNOP	107	70-130		%REC	1	11/11/2015 4:20:34 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/12/2015 3:55:53 PM	22278
Surr: BFB	85.8	75.4-113		%REC	1	11/12/2015 3:55:53 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	11/12/2015 3:55:53 PM	22278
Toluene	ND	0.048		mg/Kg	1	11/12/2015 3:55:53 PM	22278
Ethylbenzene	ND	0.048		mg/Kg	1	11/12/2015 3:55:53 PM	22278
Xylenes, Total	ND	0.096		mg/Kg	1	11/12/2015 3:55:53 PM	22278
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	11/12/2015 3:55:53 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 1511383

Date Reported: 11/20/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S5-1'

Project: Belco AIA-Federal Battery

Collection Date: 11/5/2015 10:57:00 AM

Lab ID: 1511383-009

Matrix: SOIL

Received Date: 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	170	30		mg/Kg	20	11/16/2015 8:04:44 PM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/11/2015 4:42:03 PM	22273
Surr: DNOP	91.4	70-130		%REC	1	11/11/2015 4:42:03 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2015 7:43:02 PM	22278
Surr: BFB	77.1	75.4-113		%REC	1	11/11/2015 7:43:02 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	11/11/2015 7:43:02 PM	22278
Toluene	ND	0.047		mg/Kg	1	11/11/2015 7:43:02 PM	22278
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2015 7:43:02 PM	22278
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2015 7:43:02 PM	22278
Surr: 4-Bromofluorobenzene	89.9	80-120		%REC	1	11/11/2015 7:43:02 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 1511383

Date Reported: 11/20/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S5-2'

Project: Belco AIA-Federal Battery

Collection Date: 11/5/2015 11:01:00 AM

Lab ID: 1511383-010

Matrix: SOIL

Received Date: 11/10/2015 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	880	30		mg/Kg	20	11/16/2015 8:17:09 PM	22376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/11/2015 5:03:28 PM	22273
Surr: DNOP	109	70-130		%REC	1	11/11/2015 5:03:28 PM	22273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2015 8:06:15 PM	22278
Surr: BFB	84.8	75.4-113		%REC	1	11/11/2015 8:06:15 PM	22278
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	11/11/2015 8:06:15 PM	22278
Toluene	ND	0.049		mg/Kg	1	11/11/2015 8:06:15 PM	22278
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2015 8:06:15 PM	22278
Xylenes, Total	ND	0.099		mg/Kg	1	11/11/2015 8:06:15 PM	22278
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	11/11/2015 8:06:15 PM	22278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511383

20-Nov-15

Client: Yates Petroleum Corporation

Project: Belco AIA-Federal Battery

Sample ID	MB-22376	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	22376	RunNo:	30278					
Prep Date:	11/16/2015	Analysis Date:	11/16/2015	SeqNo:	923310	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22376	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	22376	RunNo:	30278					
Prep Date:	11/16/2015	Analysis Date:	11/16/2015	SeqNo:	923311	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511383

20-Nov-15

Client: Yates Petroleum Corporation

Project: Belco AIA-Federal Battery

Sample ID	MB-22273	SampType	MBLK	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	PBS	Batch ID	22273	RunNo	30150					
Prep Date	11/10/2015	Analysis Date	11/11/2015	SeqNo	918894	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		110	70	130			

Sample ID	LCS-22273	SampType	LCS	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	LCSS	Batch ID	22273	RunNo	30150					
Prep Date	11/10/2015	Analysis Date	11/11/2015	SeqNo	918897	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	111	57.4	139			
Surr: DNOP	6.1		5.000		121	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511383

20-Nov-15

Client: Yates Petroleum Corporation

Project: Belco AIA-Federal Battery

Sample ID	MB-22278	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	22278	RunNo:	30159					
Prep Date:	11/10/2015	Analysis Date:	11/11/2015	SeqNo:	919299	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.9	75.4	113			

Sample ID	LCS-22278	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	22278	RunNo:	30159					
Prep Date:	11/10/2015	Analysis Date:	11/11/2015	SeqNo:	919300	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	79.6	122			
Surr: BFB	940		1000		93.5	75.4	113			

Sample ID	MB-22292	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	22292	RunNo:	30202					
Prep Date:	11/11/2015	Analysis Date:	11/12/2015	SeqNo:	920272	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	840		1000		83.6	75.4	113			

Sample ID	LCS-22292	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	22292	RunNo:	30202					
Prep Date:	11/11/2015	Analysis Date:	11/12/2015	SeqNo:	920273	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		91.0	75.4	113			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511383

20-Nov-15

Client: Yates Petroleum Corporation

Project: Belco AIA-Federal Battery

Sample ID	MB-22278	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 22278			RunNo: 30159					
Prep Date:	11/10/2015	Analysis Date: 11/11/2015			SeqNo: 919328		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	LCS-22278		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 22278		RunNo: 30159					
Prep Date:	11/10/2015		Analysis Date: 11/11/2015		SeqNo: 919330		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.4	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID	MB-22292		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 22292		RunNo: 30202					
Prep Date:	11/11/2015		Analysis Date: 11/12/2015		SeqNo: 920287		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	LCS-22292		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 22292		RunNo: 30202					
Prep Date:	11/11/2015		Analysis Date: 11/12/2015		SeqNo: 920288		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1511383

RcptNo: 1

Received by/date:

JA

11/10/15

Logged By: Ashley Gallegos

11/10/2015 9:20:00 AM

Ag

Completed By: Ashley Gallegos

11/10/2015 9:45:51 AM

Ag

Reviewed By

OS

11/10/15

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes			

December 02, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/24/15 11:00.

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: 11/24/2015
 Reported: 12/02/2015
 Project Name: BELCO AIA FEDERAL BATTERY
 Project Number: NONE GIVEN
 Project Location: BELCO AIA FEDERAL BATTERY

 Sampling Date: 11/05/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: S2-3' (H503110-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/01/2015	ND	416	104	400	0.00	

Sample ID: S2-4' (H503110-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/01/2015	ND	416	104	400	0.00	

Sample ID: S2-5' (H503110-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/01/2015	ND	416	104	400	0.00		

Sample ID: S2-6' (H503110-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/01/2015	ND	416	104	400	0.00		

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: 11/24/2015
Reported: 12/02/2015
Project Name: BELCO AIA FEDERAL BATTERY
Project Number: NONE GIVEN
Project Location: BELCO AIA FEDERAL BATTERY

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S2-7' (H503110-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/01/2015	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

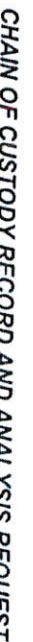
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 5 of 5

Project Loc: Belco AIA Federal Battery

standard TAT

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December 02, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/24/15 11:00.

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/ga/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: 11/24/2015
 Reported: 12/02/2015
 Project Name: BELCO AIA FEDERAL BATTERY
 Project Number: NONE GIVEN
 Project Location: BELCO AIA FEDERAL BATTERY

 Sampling Date: 11/05/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: S3-3' (H503111-01)

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	12/01/2015	ND	416	104	400	0.00	

Sample ID: S3-4' (H503111-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	12/01/2015	ND	416	104	400	0.00	

Sample ID: S3-5' (H503111-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	12/01/2015	ND	416	104	400	0.00	

Sample ID: S3-6' (H503111-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/01/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 11/24/2015
Reported: 12/02/2015
Project Name: BELCO AIA FEDERAL BATTERY
Project Number: NONE GIVEN
Project Location: BELCO AIA FEDERAL BATTERY

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S3-7' (H503111-05)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/01/2015	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



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: [Signature]

Fax No: 575-748-4131

e-mail: cssettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205.0750

Project Name: Belco AIA Federal Battery

Project #:

Project Loc: Belco AIA Federal Battery

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	S3-3'			11/5/2015	9:48 AM		1										S															X
2	S3-4'			11/5/2015	9:53 AM		1										S															X
3	S3-5'			11/5/2015	10:00 AM		1										S															X
4	S3-6'			11/5/2015	10:05 AM		1										S															X
5	S3-7'			11/5/2015	10:08 AM		1										S															X

Special Instructions:

Relinquished by: [Signature] Date: 11/24/15 Time: [Signature] Received by: [Signature] Date: 11/24/15 Time: [Signature]

Relinquished by: [Signature] Date: [Signature] Time: [Signature] Received by: [Signature] Date: [Signature] Time: [Signature]

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 ☒

December 02, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL BATTERY

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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.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
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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:	11/24/2015	Sampling Date:	11/05/2015
Reported:	12/02/2015	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	BELCO AIA FEDERAL BATTERY		

Sample ID: S4-3' (H503112-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	12/01/2015	ND	416	104	400	0.00		

Sample ID: S4-4' (H503112-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	12/01/2015	ND	416	104	400	0.00		

Sample ID: S4-5' (H503112-03)

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	12/01/2015	ND	416	104	400	0.00	

Sample ID: S4-6' (H503112-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	12/01/2015	ND	416	104	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received: 11/24/2015
Reported: 12/02/2015
Project Name: BELCO AIA FEDERAL BATTERY
Project Number: NONE GIVEN
Project Location: BELCO AIA FEDERAL BATTERY

Sampling Date: 11/05/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S4-7' (H503112-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	12/01/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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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: [Signature]

Fax No: 575-748-4131

e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205.0750

Project Name: Belco AIA Federal Battery

Project #:

Project Loc: Belco AIA Federal Battery

(lab use only)

ORDER #: 4503112

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	
S4-3'				11/5/2015	10:29 AM		1									X	S															X
S4-4'				11/5/2015	10:35 AM		1									X	S															X
S4-5'				11/5/2015	10:39 AM		1									X	S															X
S4-6'				11/5/2015	10:43 AM		1									X	S															X
S4-7'				11/5/2015	10:46 AM		1									X	S															X

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by ELOTT:

Date

Date

Date

Time

Time

Time

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 FedEx Lone Star

Temperature Upon Receipt:

Temperature Upon Receipt:

Temperature Upon Receipt:

December 02, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

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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: 11/24/2015
 Reported: 12/02/2015
 Project Name: BELCO AIA FEDERAL BATTERY
 Project Number: NONE GIVEN
 Project Location: BELCO AIA FEDERAL BATTERY

 Sampling Date: 11/05/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: S5-3' (H503113-01)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	12/01/2015	ND	416	104	400	0.00	

Sample ID: S5-4' (H503113-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	12/01/2015	ND	416	104	400	0.00	

Sample ID: S5-5' (H503113-03)

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	12/01/2015	ND	416	104	400	0.00	

Sample ID: S5-6' (H503113-04)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	12/01/2015	ND	416	104	400	0.00	

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

Received:	11/24/2015	Sampling Date:	11/05/2015
Reported:	12/02/2015	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	BELCO AIA FEDERAL BATTERY		

Sample ID: S5-7' (H503113-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	12/01/2015	ND	416	104	400	0.00	

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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: *[Signature]*

e-mail: csettle@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205.0750

Project Name: Belco AIA Federal Battery

Project #:

Project Loc: Belco AIA Federal Battery

(lab use only)

ORDER #: 1503113

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	
SS-3'				11/5/2015	11:05 AM		1										S															
SS-4'				11/5/2015	11:09 AM		1										S															
SS-5'				11/5/2015	11:13 AM		1										S															
SS-6'				11/5/2015	11:17 AM		1										S															
SS-7'				11/5/2015	11:21 AM		1										S															

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date

Date

Date

Received by:

Received by:

Received by:

Date

Date

Date

Laboratory Comments:

Sample Containers Intact?

VOOCs 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:

238 °C



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 08, 2016

Chase Settle

Yates Petroleum Corporation

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Belco AIA Federal Battery

OrderNo.: 1512B04

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 10 sample(s) on 12/23/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1512B04

Date Reported: 1/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Lab Order: 1512B04

Project: Belco AIA Federal Battery

Lab ID: 1512B04-001

Collection Date: 12/18/2015 7:28:00 AM

Client Sample ID: S5-10'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	8400	300		mg/Kg	200	1/5/2016 9:14:14 PM	23059

Lab ID: 1512B04-002

Collection Date: 12/18/2015 7:39:00 AM

Client Sample ID: S5-15'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	8000	300		mg/Kg	200	1/5/2016 9:26:39 PM	23059

Lab ID: 1512B04-003

Collection Date: 12/18/2015 8:00:00 AM

Client Sample ID: S5-20'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	7000	300		mg/Kg	200	1/5/2016 9:39:03 PM	23059

Lab ID: 1512B04-004

Collection Date: 12/18/2015 8:15:00 AM

Client Sample ID: S5-25'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	4500	150		mg/Kg	100	1/5/2016 9:51:27 PM	23059

Lab ID: 1512B04-005

Collection Date: 12/18/2015 8:30:00 AM

Client Sample ID: S5-30'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2000	75		mg/Kg	50	1/5/2016 10:03:52 PM	23059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order: 1512B04

Date Reported: 1/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Belco AIA Federal Battery

Lab Order: 1512B04

Lab ID: 1512B04-006 **Collection Date:** 12/18/2015 8:46:00 AM
Client Sample ID: S5-35' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	6300	300		mg/Kg	200	1/5/2016 10:41:05 PM	23059

Lab ID: 1512B04-007 **Collection Date:** 12/18/2015 9:05:00 AM
Client Sample ID: S5-40' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	2900	150		mg/Kg	100	1/5/2016 10:53:30 PM	23059

Lab ID: 1512B04-008 **Collection Date:** 12/18/2015 9:25:00 AM
Client Sample ID: S5-45' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	290	30		mg/Kg	20	1/5/2016 3:18:12 AM	23059

Lab ID: 1512B04-009 **Collection Date:** 12/18/2015 10:43:00 AM
Client Sample ID: S4-10' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	780	30		mg/Kg	20	1/5/2016 3:55:27 AM	23059

Lab ID: 1512B04-010 **Collection Date:** 12/18/2015 10:55:00 AM
Client Sample ID: S4-15' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	710	30		mg/Kg	20	1/5/2016 4:07:51 AM	23059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 2 of 3
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S % Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512B04

08-Jan-16

Client: Yates Petroleum Corporation

Project: Belco AIA Federal Battery

Sample ID	MB-23059	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	23059	RunNo:	31235					
Prep Date:	1/4/2016	Analysis Date:	1/4/2016	SeqNo:	956435	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-23059	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	23059	RunNo:	31235					
Prep Date:	1/4/2016	Analysis Date:	1/4/2016	SeqNo:	956436	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hickman NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name Yates Petroleum Corpora

Work Order Number: 1512B04

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

12/23/2015 9:40:00 AM

Completed By: Ashley Gallegos

12/23/2015 1:04:41 PM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH: ☐ (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by: ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	9.8	Good	Yes			

