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
www.yatespetroleum.com

5

JOHN A. YATES JR. CHAIRMAN OF THE BOARD

JOHN A. YATES

DOUGLAS E. BROOKS PRESIDENT CHIEF EXECUTIVE OFFICER

JOHN D. PERINI EXECUTIVE VIGE PRESIDENT CHIEF FINANCIAL OFFICER

JAMES S. BROWN CHIEF OPERATING OFFICER

January 22, 2016

Mr. Jamie Keys or Ms. Kellie Jones NMOCD District I 1625 N. French Dr. Hobbs, NM 88240 **APPROVED**

RECEIVED

By JKeyes at 7:19 am, Jan 26, 2016

By JKeyes at 7:19 am, Jan 26, 2016

Ensure BLM concurrence/approval.

RE: Bilbrey SWD #1

30-025-27620

Section 5, T22S-R32E Lea County, New Mexico

Mr. Keys or Ms. Jones,

Yates Petroleum Corporation (Yates) would like to submit the attached plan of work to you regarding the three releases that occurred at the above mentioned facility on April 1, 2015 (1RP-3606), June 2, 2015 (1RP-3669), and August 22, 2015 (1RP-3834).

With NMOCD and BLM approval of this work plan, Yates will hold a bid meeting allowing several contractors the opportunity to submit bids on this remediation project. Bids that are received will be forwarded to Yates Management for review. Once Yates Management reviews the bids and gives approval, the remediation project will be awarded to a contractor for work to commence.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at agriffin@yatespetroleum.com.

Thank You,

Amber Griffin

Environmental Regulatory Agent

mber Briffin

Yates Petroleum Corporation

Yates Petroleum Corporation

Bilbrey SWD #1 Work Plan

Section 5, T22S-R32E

Lea County, New Mexico

January 22, 2016

I. Location

The well is located approximately 31.1 miles east of Carlsbad, NM on Highway 62/180, approximately 9 miles south of Highway 62/180 on Campbell Road (County Road 29) and approximately 2 miles east of Campbell Road (County Road 29) on a lease road.

II. Background

On April 1, 2015, Yates had a release of 180 barrels produced water and 20 barrels crude oil, with 179 barrels produced water and 18 barrels crude oil recovered. The area affected from this release was within the unlined, bermed battery. An initial Form C-141 was submitted, via e-mail, to the NMOCD District I office on April 10, 2015.

On April 15, 2015 personnel returned to the release area and collected initial soil samples from the surface and from the depths of 1' – 2' below surface level using a hand auger. The soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M, and Chlorides SM4500Cl-B. Yates received the analytical results on April 24, 2015 (Report H501008 attached to this work plan). The analytical results showed that both BTEX and TPH had delineated to levels below NMOCD RRAL's. The analytical results also showed elevated chloride levels, and Yates determined that further vertical delineation of chlorides was needed within the release area.

On May 12, 2015 personnel returned to the release area and completed further vertical delineation within the battery using a mini-excavator. Yates was able to successfully collect soil samples from the depths of 3' – 10' below surface level. The mini-excavator was not able to safely or effectively pull samples from deeper depths. The soil samples from this sampling event were sent to an approved NMOCD laboratory and tested for Chlorides SM4500Cl-B. Yates received the analytical results May 19 & 20, 2015 (Reports H501241 and H501242 attached to this work plan). The analytical results showed that there were still elevated chloride levels, and Yates determined that further vertical delineation of chlorides was still needed within the release area.

On June 2, 2015 Yates had a second release occur at the site. This release was 20 barrels produced water, with 18 barrels produced water recovered. The area affected was within an unlined, bermed battery (over the April 2015 release) with some overspray to the outside of the battery area, but remaining on the production pad. An initial Form C-141 was submitted, via e-mail, to the NMOCD District I office on June 11, 2015.

Due to the analytical results of the previous sampling events (4/15/15 & 5/12/15) and the second release, Yates made the decision to relocate the tanks of this location from the west side to the east side of the production pad. It was decided that the tanks needed to be in a steel containment with a liner to prevent further environmental issues if more releases occurred at this facility. Production started the process to relocate the tanks into a lined, steel containment system. The tanks also needed to be re-located in order for environmental personnel to be able to safely and effectively complete vertical delineation within the release area.

On August 22, 2015 Yates had a third release occur at the site. This release was 100 barrels produced water, with 90 barrels produced water recovered. The area affected was within the unlined, bermed battery (over the April 2015 and June 2015 releases). An initial Form C-141 was submitted, via e-mail, to the NMOCD District I office on August 27, 2015. At the time

of this release production was still working on the tank relocation and the old tanks were still in use.

On October 28, 2015 environmental personnel were notified that production had finished building the new tank battery on the east side of the production pad and had also dismantled the old tank battery. Environmental could now move forward with further vertical delineation of the release area.

The release area contains mostly sandy soils and these soils would collapse while digging with heavy equipment. The collapsing of soils created personnel safety issues and made it impossible to obtain discrete samples from deeper depths. As a result, it was determined that a hollow stem auger core rig would be needed to complete further vertical delineation within the release area.

On November 9, 2015 Yates contacted a company with a hollow stem auger core rig to conduct further vertical delineation of the release area. The hollow stem auger was scheduled for December 16, 2015 and complete vertical delineation of chlorides was completed. Soil samples obtained with the hollow stem auger were sent to an approved NMOCD laboratory and tested for Chlorides 300.0. Yates received the analytical results on January 7, 2016 (Report 1512A78 attached to this work plan). The analytical results showed that Yates had successfully found the bottom of the chloride contamination.

III. Surface and Ground Water

Area surface geology is Cenozoic. The ChevronTexaco depth to ground water map shows the depth to groundwater to be approximately 280 feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

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

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

IV. Soils

The area consists of soils that are sand and interspersed with caliche and clay seams.

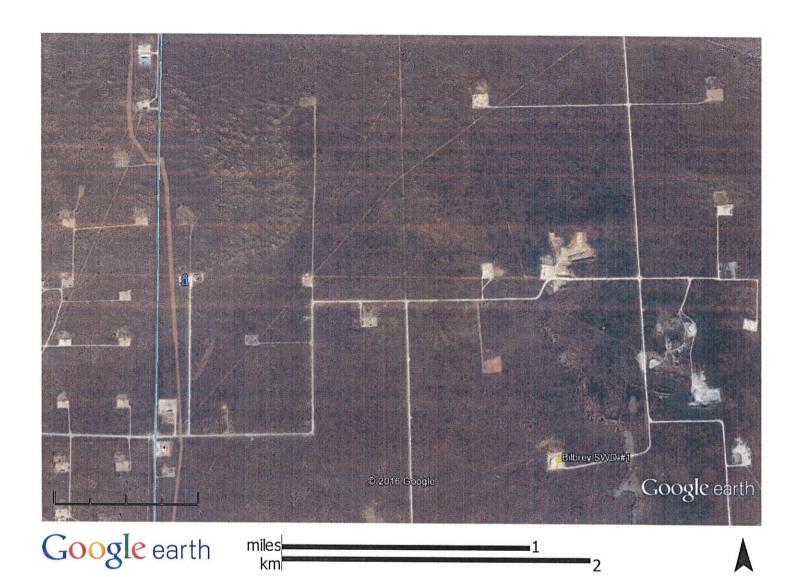
V. Scope of Work

Based off the analytical reports which show complete vertical delineation, Yates proposes to excavate four (4) feet from the release area. The excavation will be approximately 164' long, 39' wide by 28' long, 27' wide. Once all soils have been excavated, a 20 mil synthetic liner will be placed in the bottom of the excavation. The backfill of the excavation will then be started with caliche (up to 2' below surface level) and finished with 2' of top soil or sand.

Contaminated soils that are excavated will be hauled to a NMOCD approved disposal facility, The Lea Land, Inc. Landfill.

The backfill material for the excavation will be purchased from the nearest BLM pit.

Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD and BLM requesting closure of these three releases.



YATES PETROLEUM CORPORATION

Bilbrey SWD #1 30-025-27620 Section 5, T22S-R32E Lea County, New Mexico 1RP-3606, 1RP-3669, 1RP-3834

DRAWING IS NOT TO SCALE

Friday, January 22, 2016

NW Sample Point #1 X **Old Tank Battery** - Release Area -All equipment has been relocated to new lined, steel containment system New Tank Battery -Lined, Steel Containment Sample Point #2

Bilbrey SWD #1

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	втех	GRO	DRO	TOTAL	Chlorides
1-Surface	Release area	4/15/2015	H501008	Grab/Auger	Surface	42.1	880	9,720	10,600	21,400
1-1.	Release area	4/15/2015	H501008	Grab/Auger	-	9	Q	57	57	9,330
1-2,	Release area	4/15/2015	H501008	Grab/Auger	2'	Q	10	114	124	7,330
3,	Release area	5/12/2015	H501241	Grab/Mini-Excavator	3'	ı	1		1	4,000
4'	Release area	5/12/2015	H501241	Grab/Mini-Excavator	4.	,	٠	•	1	1,960
5'	Release area	5/12/2015	H501242	Grab/Mini-Excavator	5.	,	1	9	1	3,920
,9	Release area	5/12/2015	H501242	Grab/Mini-Excavator	6,	,			1	10,400
.2.	Release area	5/12/2015	H501242	Grab/Mini-Excavator	7.					11,200
.8	Release area	5/12/2015	H501242	Grab/Mini-Excavator	8,		1	,		5,440
.6	Release area	5/12/2015	H501242	Grab/Mini-Excavator	9,		1	r		4,800
10'	Release area	5/12/2015	H501242	Grab/Mini-Excavator	10'		-	-	t	5,280
1-15'	Release area	12/16/2015	1512A78	Hollow Stem Auger	15'	ı	1	1	1	12,000
1-20'	Release area	12/16/2015	1512A78	Hollow Stem Auger	20,	ı	1	1		7,200
1-25'	Release area	12/16/2015	1512A78	Hollow Stem Auger	25'	9	ı	,	1	5,900
1-30'	Release area	12/16/2015	1512A78	Hollow Stem Auger	30,	,	1	,		1,600
1-35'	Release area	12/16/2015	1512A78	Hollow Stem Auger	35'		,		ı	1,400
1-40'	Release area	12/16/2015	1512A78	Hollow Stem Auger	40,	ı	ı		ı	3,000
1-45'	Release area	12/16/2015	1512A78	Hollow Stem Auger	45'	ı	ı		ı	2,800
1-50'	Release area	12/16/2015	1512A78	Hollow Stem Auger	50'		1	1		410
1-55'	Release area	12/16/2015	1512A78	Hollow Stem Auger	55'	1	1	,	1	170
2-Surface	Release area	4/15/2015	H501008	Grab/Auger	Surface	25.7	541	13900	14441	25,200
2-1'	Release area	4/15/2015	H501008	Grab/Auger	-	46.9	913	2910	3823	11,900
2-2'	Release area	4/15/2015	H501008	Grab/Auger	2'	6.49	78.6	491	569.6	9,600
2-5'	Release area	12/16/2015	1512A78	Hollow Stem Auger	5.	1			ı	210
2-10'	Release area	12/16/2015	1512A78	Hollow Stem Auger	10,					540
2-15'	Release area	12/16/2015	1512A78	Hollow Stem Auger	15'					4,200
2-20'	Release area	12/16/2015	1512A78	Hollow Stem Auger	20,	ı	ı		ı	7,400
2-25'	Release area	12/16/2015	1512A78	Hollow Stem Auger	25'	1	ı	1	1	4,700
2-30'	Release area	12/16/2015	1512A78	Hollow Stem Auger	30,	1		1		43
2-35'	Release area	12/16/2015	1512A78	Hollow Stem Auger	35'	ı			ı	170

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 280', per ChevronTexaco trend map).

All results are ppm.Chlorides for documentation.

Released: 180 B/PW, 20 B/O; Recovered: 179 B/PW, 18 B/O. Release Date: 4/1/2015, 1RP-3606

Released: 20 B/PW; Recovered: 18 B/PW. Release Date: 6/2/2015, 1RP-3669

Released: 100 B/PW; Recovered: 90 B/PW. Release Date: 8/22/2015, 1RP-3834



April 24, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BILBREY SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 04/17/15 11:07.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/17/2015

Reported:

04/24/2015

Project Name:

BILBREY SWD #1

Project Number: Project Location: 1RP-3606 LEA COUNTY, NM Sampling Date:

04/15/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 1-SURFACE (H501008-01)

B.	Γ	E)	(8	0	2	1	E
B	Γ	E)	(8	0	2	1	E

m	-	1	v

Analyzed I	Ву:	ms
------------	-----	----

	91	9	Andryzo	a by. ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.766	0.500	04/20/2015	ND	2.01	101	2.00	0.0320	
Toluene*	11.1	0.500	04/20/2015	ND	1.81	90.7	2.00	1.79	
Ethylbenzene*	6.09	0.500	04/20/2015	ND	1.69	84.7	2.00	0.715	
Total Xylenes*	24.2	1.50	04/20/2015	ND	5.51	91.8	6.00	0.577	
Total BTEX	42.1	3.00	04/20/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	132 %	6 61-154					**************************************	***************************************	***************************************
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	880	100	04/18/2015	ND	187	93.6	200	1.51	
DRO >C10-C28	9720 DU00	100	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	179 9	6 47.2-15	7						

Surrogate: 1-Chlorooctane 179 % 47.2-157
Surrogate: 1-Chlorooctadecane 227 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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

Celeg Estrene



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/17/2015

1RP-3606

Reported:

04/24/2015

Project Name: Project Number: BILBREY SWD #1

Project Location:

LEA COUNTY, NM

Sampling Date:

04/15/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 1-1' (H501008-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2015	ND	2.01	101	2.00	0.0320	
Toluene*	0.071	0.050	04/20/2015	ND	1.81	90.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	04/20/2015	ND	1.69	84.7	2.00	0.715	
Total Xylenes*	<0.150	0.150	04/20/2015	ND	5.51	91.8	6.00	0.577	
Total BTEX	<0.300	0.300	04/20/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 61-154				***************************************			
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2015	ND	187	93.6	200	1.51	
DRO >C10-C28	57.0	10.0	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	107 9	6 47.2-15	7				-		
Surrogate: 1-Chlorooctadecane	111 %	6 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/17/2015

Reported:

04/24/2015

Project Name: Project Number: BILBREY SWD #1

Project Location:

1RP-3606 LEA COUNTY, NM Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

04/15/2015

Sample ID: 1-2' (H501008-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms	Sition of the second of				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2015	ND	2.01	101	2.00	0.0320	
Toluene*	<0.050	0.050	04/20/2015	ND	1.81	90.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	04/20/2015	ND	1.69	84.7	2.00	0.715	
Total Xylenes*	0.196	0.150	04/20/2015	ND	5.51	91.8	6.00	0.577	
Total BTEX	<0.300	0.300	04/20/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 9	61-154							
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.0	10.0	04/18/2015	ND	187	93.6	200	1.51	
DRO >C10-C28	114	10.0	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	107 9	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	110 9	52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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





YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/17/2015

Reported:

04/24/2015

Project Name: Project Number: BILBREY SWD #1

Project Location:

1RP-3606 LEA COUNTY, NM Sampling Date:

04/15/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 2-SURFACE (H501008-04)

BTEX 8021B	mg,	'kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.287	0.200	04/20/2015	ND	2.01	101	2.00	0.0320	
Toluene*	4.05	0.200	04/20/2015	ND	1.81	90.7	2.00	1.79	
Ethylbenzene*	3.83	0.200	04/20/2015	ND	1.69	84.7	2.00	0.715	
Total Xylenes*	17.5	0.600	04/20/2015	ND	5.51	91.8	6.00	0.577	
Total BTEX	25.7	1.20	04/20/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 61-154					-		
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	541	100	04/18/2015	ND	187	93.6	200	1.51	
DRO >C10-C28	1 3900	100	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	161 9	% 47.2-15	7	9				***************************************	
Surrogate: 1-Chlorooctadecane	334 9	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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

Celley D. Frene



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/17/2015

Reported:

04/24/2015

Project Name:

BILBREY SWD #1

Project Number: Project Location: 1RP-3606 LEA COUNTY, NM Sampling Date:

04/15/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 2-1' (H501008-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.921	0.500	04/20/2015	ND	2.01	101	2.00	0.0320	
Toluene*	13.4	0.500	04/20/2015	ND	1.81	90.7	2.00	1.79	
Ethylbenzene*	6.81	0.500	04/20/2015	ND	1.69	84.7	2.00	0.715	
Total Xylenes*	25.8	1.50	04/20/2015	ND	5.51	91.8	6.00	0.577	
Total BTEX	46.9	3.00	04/20/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	135 9	% 61-154							
TPH 8015M	mg/	'kg	Analyze	d By: MS		anusy.			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	913	50.0	04/18/2015	ND	187	93.6	200	1.51	
DRO >C10-C28	2910 387	50.0	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	154		7						
Surrogate: 1-Chlorooctadecane	145	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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

Celeg & Kenne



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/17/2015

1RP-3606

Reported:

04/24/2015

Project Name: Project Number: BILBREY SWD #1

Project Location:

LEA COUNTY, NM

Sampling Date:

04/15/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 2-2' (H501008-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2015	ND	2.01	101	2.00	0.0320	
Toluene*	1.10	0.050	04/20/2015	ND	1.81	90.7	2.00	1.79	
Ethylbenzene*	1.03	0.050	04/20/2015	ND	1.69	84.7	2.00	0.715	
Total Xylenes*	4.36	0.150	04/20/2015	ND	5.51	91.8	6.00	0.577	
Total BTEX	6.49	0.300	04/20/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	121 9	% 61-154	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	78.6	10.0	04/18/2015	ND	187	93.6	200	1.51	
DRO >C10-C28	569 L	10.0	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	113		7						
Surrogate: 1-Chlorooctadecane	124	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine



Notes and Definitions

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

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

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

Celey D. Keene

Relinquished by:	Relinquished by:	Reliaquish		Special In	All Control			0	S	4	W	2	-	LAB # (lab use only)	ORDER #:								Co	7
		guished by:		Special Instructions: TPH: 80'				2-2'	2-1'	2-Surface	1-2'	1-1'	1-Surface	FIELD CODE	# H501008	Sampler Signature: UMBU		Telephone No: 575-748-4111 or 575-513-8799	City/State/Zip: Artesia, NM 8	Company Address: 105 South 4th Street	Company Name Yates Petroleum Corporation	Project Manager: Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	/
Date	Date	Date	report.	TPH: 8015B, BTEX: 8021B.												- Canion	?	or 575-5	88210	Street	m Corpo]	8240	
lime	Time	Time	The	X: 80				バ	<u>-</u> -	Sur	vî	<u>-</u>	Sur	Beginning Depth		Ē	5	3-87			ation			
ne	6	9.0	Thank you.)21B.				1,5	<u>-</u>	Sur	vi	- -	Sur	Ending Depth		>		99						
Received by ELOT:	Reperved by:	Redelived by:	Ĕ	1				4/15/2015	4/15/2015	4/15/2015	4/15/2015	4/15/2015	4/15/2015	Date Sampled									(505) 393-2326	
)I:		Men		Please show BTEX results as mg/kg.				11:24 AM	11:16 AM	10:20 AM	10:52 AM	10:35 AM	10:15 AM	Time Sampled		e-mail:	:	Fax No:					(505) 393-2326 FAX (505) 393-2476	
		2	-	ts as	_	_								Field Filtered	-	Ins		len					-2476	
		100		ä	\dashv	+	\vdash	1 ×	×	×	×	1 ×	×	Total #. of Containers	\vdash	acannon@yatesp		575-748-4131					67	
		7		ह	_	+		_	^	^	^	^	1	HNO ₃	Pres			48-						
		/			\dashv	+		_		_		-	-	HCI	Preservation	onic		1131						
				eas										H ₂ SO ₄	ion &	SVG							9	2
				Please put										NaOH	& # of Co	le							7	CHAIN
														Na ₂ S ₂ O ₃									3	S
	_	5		chlorides on a		_							_	None	ntainers	etroleum.com							~	0.0
Date	Date	Date 1		de	\dashv	+	_			_			_	Other (Specify)	Н	eur							Ş	10
		U.		Sol				S	S	S	S	S	S	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid	Ma	n.c		R					Ş	3
		_		Ω					0.	0,	0,	0,	0	NP=Non-Potable Specify Other	Matrix	100		por		773		Pro		< n
ime	Time	Ö im		I				×	×	×	×	×	×	TPH: 418.1 8015M 8	0151	П		For		roje	P	oject	h	Ü,
		7												TPH: TX 1005 TX 1006	6	11		Report Format:	Р	Project Loc:	Project #:	Project Name:	Ş	שכ
Tem	Sam	Cust	Sam	Lab						_				Cations (Ca, Mg, Na, K)		Π			PO #:	ိုင်	.#	ne:	ž	4
pera	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	abels on container(s) Custody seals on cont Custody seals on cool	ple (Laboratory Comments:			_			_		-	_	Anions (CI, SO4, Alkalinity)	TOTAL:			x Standard					Ę	5
ture	danc ampl burie	seal seal	ont Cont	3	_	-	-		_	_	_		-	SAR / ESP / CEC		41		Stan					\$	ZV
Upo	er/CI	ntain s on	aine f He	Com	\dashv	+	-		_	-	-	_	-	Metals: As Ag Ba Cd Cr Pb H Volatiles	g Se	Ana		dard		Çī			Ē	< <
n Re	ivere lent I	er(s)	s Ini	mer	\dashv	+		_		-	-	_	-	Semivolatiles	$\dashv \vdash$	Analyze				228		m	č	2
Temperature Upon Receipt:	nple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	its:		1		×	×	×	×	×	×	BTEX 8021B/5030 or BTEX 8	3260	g		П	20	5-22S-32E,	7	Bilbrey SWD #1	ì	OF CUSTODY RECORD AND ANALYSIS REQUEST
T	H 2	r(s)	~											RCI		11		TRRP	205-2020	im	1RP-3606	S	ç	2
2.8														N.O.R.M.				RP	020	Lea	906	WD	ģ	13
8	FedE	Car						×	×	×	×	×	×	Chlorides] [County	1	共		(7)
	×-<	- CK	ノイス	,	_								_	SAR		11				nty				
ငိ	N Lone Star	QZZ	zz	+	_	-	-	_		_	_		-	DUCH TAT		Ц		NPDES						
()	Star	0-		-	-	+	-	×	×	×	×	×	×	RUSH TAT (Pre-Schedule) 24 Standard TAT	4, 48, 72 hrs			ES				Pag	e 9 of 9	
									1	1	1		10	Laurana IVI	J					1		1		



April 24, 2015

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: BILBREY SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 04/17/15 11:07.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/17/2015

Reported:

04/24/2015

Project Name: Project Number: BILBREY SWD #1

Project Location:

1RP-3606 LEA COUNTY, NM Sampling Date:

04/15/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 1-SURFACE (H501008-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS

% Recovery 108

True Value QC

True Value QC

400

Qualifier

Chloride

21400

16.0

04/20/2015

ND

432

400

Sample ID: 1-1' (H501008-02)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Qualifier

Chloride

Result 9330 Reporting Limit 16.0

04/20/2015

Analyzed

Method Blank ND

BS 432 % Recovery 108

RPD 7.69

RPD

7.69

Sample ID: 1-2' (H501008-03)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

BS

% Recovery

True Value QC

Chloride

Chloride

Result 7330

Result

25200

Reporting Limit 16.0

Analyzed 04/21/2015

ND

416

104

400

RPD 3.92 Qualifier

Sample ID: 2-SURFACE (H501008-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Reporting Limit

16.0

Analyzed 04/21/2015 Method Blank

ND

BS 416 % Recovery

104

True Value QC

400

RPD 3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Celley D. Frene

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 04/17/2015

04/24/2015

BILBREY SWD #1

Project Name: Project Number:

1RP-3606

Project Location:

LEA COUNTY, NM

Sampling Date:

04/15/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 2-1' (H501008-05)

Chloride.	SM4500CI	-B
cilioriac,	311430000	

Chloride

mg/kg

11900

Analyzed By: AP

Analyte

Result Reporting Limit Analyzed

04/21/2015

ND

Method Blank

BS 416 % Recovery 104

104

True Value QC 400

True Value QC

400

RPD 3.92

RPD

3.92

Qualifier

Qualifier

Sample ID: 2-2' (H501008-06)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery
Chloride	9600	16.0	04/21/2015	ND	416	104

16.0

Cardinal Laboratories

*=Accredited Analyte

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

Celeg & treens

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

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

Celly D. Keene

Reinquished by:	Relinquished by:	Re-inquisined by		Openia mon	Special Instructions:				7	S	4	W	2	_	LAB # (lab use only)	ORDER #:	(lab use only)	Sa	Te	<u>Ω</u>	0	0	Pn	To	7
y,	DY:	ber Cannon							2-2'	2-1'	2-Surface	1-2'	1-1'	1-Surface	FIELD CODE	H501008		Sampler Signature: ()	Telephone No: 575-748-4	City/State/Zip: Artesia, NM	Company Address: 105 South 4th Street	Company Name Yates Petri	Project Manager: Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	•
Date	Date	Date		separate report. Thank yo	דם מאגמים													6	575-748-4111 or 575-513-8799	A 88210	4th Street	Yates Petroleum Corporation	non	S M 88240	
_		_		∃ 5	· ·				12	- - -	Sur	vî	- <u>;</u>	Sur	Beginning Depth			gennon,	513-8			oratio			
lime	Time	ime		Thank you.	2				2	- <u>;</u>	Sur	νĩ	ټــ	1	Ending Depth			>	799			5			
Received by ELOT:	Reberved by:	Redelived by		Ë					4/15/2015	4/15/2015	4/15/2015	4/15/2015	4/15/2015	4/15/2015	Date Sampled									(505) 393-232	
OI:		Men		Flease SHOW DIENTESURS as HIGING.	BTEV social				11:24 AM	11:16 AM	10:20 AM	10:52 AM	10:35 AM	10:15 AM	Time Sampled			e-mail:	Fax No:					(505) 393-2326 FAX (505) 393-2476	
		2		000	-	+	\blacksquare						_		Field Filtered			ios	len					-2476	
		2		j	H	+	+		×	1 ×	1 ×	×	1 ×	×	Total #. of Containers	\vdash		acannon@yatesp	575-748-4131	1				0,	
1000		1		3	-	+	+		_	_	_	~	~		HNO₃	Pres			48						
		/				-	+			-			_	-	нсі	Preservation & # of C		lo Di	131						
				Fledse but	一	T									H ₂ SO ₄	ion &		SYC						•	2
				C											NaOH	# of		He		İ				ž	CHAIN
															Na ₂ S ₂ O ₃									2	2
	_	E .		ē											None	ontainers		5						3	ň
Date	Date	7 Pale		2	L										Other (Specify)	S		eu						Š	ź
-		元 三		Cilior ides off a					S	S	S	S	s	S	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix		etroleum.com	Report Format:		-		Pr	Ö	OF CUSTODY RECORD AND ANALYSIS REQUEST
Time	Time	Ö;							×	×	×	×	×	×	TPH: 418.1 8015M 8	0151	T	1	For		Project Loc:	P	Project Name:	Ď	Ĭ
distance for			L												TPH: TX 1005 TX 1006	6			mat	P	2	Project #:	Nar	٤	9
Tem	Sam	Cus	8	San	2										Cations (Ca, Mg, Na, K)		1			PO #:	.00	#	ne:	3)
pera	by S	tody	SF	ple				_							Anions (CI, SO4, Alkalinity)	TOTAL	ನ	1	×			1		ŧ	S
ature	Han	sea sea	ree o	Con	3		\perp								SAR / ESP / CEC	Contract Constitution	TCLP:		Star					į	2
Upo	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	Custody seals on cool	of He	laine	3-	-	+	-					_		Metals: As Ag Ba Cd Cr Pb He	g Se		A	x Standard		(n			Ę	2
on R	lient U	cor	ads	S Ir	-	-	+	_		_				_	Volatiles		-	Analyza			-22		_	ý	ò
Temperature Upon Receipt:	pple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Sample Containers Intact?	-	+	++	_	×	×		×	U	U	Semivolatiles BTEX 8021B/5030 or BTEX 8	1260		T T		N	5-22S-32E,		Bilbrey SWD #1	2	Ö
	DHE.3	er(s)	.5	2	-	+	+		^	^	×	^	×	×	RCI		-			205-2020	2Ε,	1RP-3606	ey :	Ŕ	2
17	Ė				-	+	+	_	_				_	-	N.O.R.M.	-	\dashv	1	TRRP	202	Les Les	360	WS	j	SI
2.8	Fee				-	+	\forall		×	×	×	×	×	×	Chlorides	-	\dashv		v	0	S	ō	#	•	۲
	FedE < <	43	3	0											SAR		1		П		Lea County		-		
PARME	Lon																1		NPDES		~				
റ്	N N Lone Star	Z)ZZ	Z	Z											RUSH TAT (Pre-Schedule) 24	4, 48, 72 h	rs	1	ĎE			_	<u></u>		-
	A			1516					×	×	×	×	×	×	Standard TAT				(J)				Page	e 5 of 5	



May 20, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BILBREY SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 05/14/15 14:20.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

05/14/2015

Sampling Date: Sampling Type: 05/12/2015

Reported:

05/20/2015

Soil

Project Name:

BILBREY SWD #1

Sampling Condition:

** (See Notes)

Project Number:

1RP-3606

Sample Received By:

Jodi Henson

Project Location:

5-22S-32E, LEA COUNTY, NM

16.0

16.0

Sample ID: 3' (H501241-01)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result 4000 Reporting Limit

Method Blank

BS

400

% Recovery 100

True Value QC 400

RPD 3.92 Qualifier

Sample ID: 4' (H501241-02)

Chloride, SM4500CI-B

mg/kg

1960

Analyzed By: AP

Analyte

Reporting Limit Result

Analyzed 05/18/2015

Analyzed

05/18/2015

Method Blank ND

ND

BS 400 % Recovery

100

True Value QC 400

RPD 3.92 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Celley & treme -

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



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

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

Celeg D. Keine

ORDER#: 1/50 124 (lab use only) Relinquished by: Special Instructions: Relinquished by: Relinquished by: LAB # (lab use only) e MON City/State/Zip: Sampler Signature: Telephone No: Company Address: 105 South 4th Street Company Name Project Manager: 101 East Marland, Hobbs, NM 88240 ARDINAL LABORATORIES FIELD CODE Amber Cannon 575-748-4111 or 575-513-8799 4 w Artesia, NM 88210 Yates Petroleum Corporation SHE ST Date **Beginning Depth** me ime ime **Ending Depth** 4 Ç Received by ELOT: Received by: (505) 393-2326 FAX (505) 393-2476 5/12/2015 5/12/2015 **Date Sampled** 10:00 AM 9:50 AM Fax No: Time Sampled e-mail: Field Filtered Total #. of Containers acannon@yatespetroleum.com 575-748-4131 Ice HNO, HCI H₂SO₄ CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST NaOH Na₂S₂O₃ None Other (Specify) Date DW=Drinking Water SL=Sludge Report Format: S S GW = Groundwater S=Soil/Solid Project Name: NP=Non-Potable Specify Other Project Loc: TPH: 418.1 8015M 8015 Project #: Time TPH: TX 1005 TX 1006 PO#: Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep. ?
by Counier? UPS DHL Temperature Upon Receipt: VOCs Free of Headspace? Laboratory Comments: Sample Containers Intact? Cations (Ca, Mg, Na, K) x Standard Anions (CI, SO4, Alkalinity) TOTAL TCLP SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Analyze For: 5-22S-32E, Lea County Volatiles Bilbrey SWD #1 Semivolatiles BTEX 8021B/5030 or BTEX 8260 TRRP 205-2020 1RP-3606 RCI N.O.R.M. Chlorides × SAR NPDES One NEW YORK RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

×

Standard TAT

Page 4 of 4



May 19, 2015

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: BILBREY SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 05/14/15 14:20.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

05/14/2015

Reported:

05/19/2015

Project Name: Project Number: BILBREY SWD #1

Project Location:

1RP-3606

LEA COUNTY, NM

Sampling Date:

Sampling Type:

05/12/2015

Sampling Condition:

Soil ** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: 5' (H501242-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Chloride

Chloride

Chloride

Result 3920 Reporting Limit 16.0

Analyzed 05/18/2015 Method Blank ND

Method Blank

ND

BS 400 % Recovery 100

True Value QC 400

400

400

RPD

3.92

Sample ID: 6' (H501242-02)

Analyte

Chloride, SM4500CI-B

mg/kg

Result

10400

Result

11200

Result

5440

Analyzed By: AP

BS

400

% Recovery True Value QC

100

RPD

3.92

Qualifier

Qualifier

Sample ID: 7' (H501242-03)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Analyzed 05/18/2015

Analyzed

05/18/2015

Method Blank

ND

BS 400 % Recovery True Value QC RPD

3.92

Qualifier

Sample ID: 8' (H501242-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Chloride

Reporting Limit Analyzed

05/18/2015

Method Blank ND

BS 400 % Recovery 100

100

True Value QC 400

RPD 3.92 Qualifier

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celes Ditreme -

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street

Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 05/14/2015

05/19/2015

Project Name: Project Number: BILBREY SWD #1 1RP-3606

Project Location:

LEA COUNTY, NM

Sampling Date:

05/12/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: 9' (H501242-05)

Chloride, SM4500CI-B

Chloride

mg/kg

Analyzed By: AP

Analyte

Result

Reporting Limit

16.0

Analyzed 05/18/2015

Method Blank ND

Method Blank

400

BS

% Recovery

True Value QC 400 RPD 3.92 Qualifier

Sample ID: 10' (H501242-06)

Chloride, SM4500CI-B

mg/kg

5280

Analyzed By: AP

Analyte Chloride

Result Reporting Limit

16.0

Analyzed 05/18/2015

ND

BS 400 % Recovery 100 True Value QC

400

RPD

3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Celay D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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

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

Celey D. Keene

		Relinquished by:	Relinquished by:	Relinquished by:	Special Instructions:				6	10	2	2	w	N		LAB # (lab use only)		ORDER #	, ab use only)								Se Contraction
		by: Date	Descianto S/14/15	1 by: Date	structions:				ō	40	2 0	õ	7.	Đị.	Q ₁	FIELD CODE		# H501040	only)	Sampler Signature: ()	1 elephone No: 575-748-4111 or 575-513-8799		City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Company Name Yates Petroleum Corporation	Project Manager: Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
		Time	Time	Time					10.	ယ့	ω	-	1 0	J (တ္ျ	Beginning Depth	1			Sy.	-513-6				porati		
			7						10'	9	ထူ	7	! 0	J (ນັ	Ending Depth	1			Q	3799				9		
		Received by ELOT:	Received by:	Received by:					5/12/2015	5/12/2015	5/12/2015	5/12/2015	C107/71/C	5100015	5/12/2015	Date Sampled)							(505) 393-23
			they	No.					11:00 AM	10:50 AM	10:40 AM	10:30 AM	10:20 AM	IO. IO AM	10-10 AM	Time Sampled				e-mail:	Fax No:						(505) 393-2326 FAX (505) 393-2476
			V	s - Essal	Special	+		+	-	-		-			-	Field Filtered Total #. of Containers							, 100 U.S.				13-247
						士		T	\dagger	\dagger		+	+	+	+	Ice	y.	1		аса	575-748-4131						ੈ ਹੈ <u> </u>
			/		L				T	T		T	1	T	T	HNO ₃	Pres			3	748-	l					
				1								T	T	T	+	HCI	reservation & # of			S	4131						
						_									1	H ₂ SO ₄	lion 8			V							
					-	+		_							I	NaOH	# of			He.							CHA
			100	-	-	+	-	_	-			_	_	\perp		Na ₂ S ₂ O ₃	Cont			9ds							×
	c		0 5 5		-	+	+-	-	+-	_	_		-	_	-	None	Containers			3							P
	pare	3	Date		-	+	+	-	\vdash	_	_	_	_	+	Title Ball	Other (Specify)	US.			e u			- 1				CUS
			13						S	S	S	S	S	S	G	OW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Soild IP=Non-Potable Specify Other	Matrix			acannon@yatespetroleum.com	Report Format:						IN OF CUSTODY RECORD AND ANALYSIS REQUEST
	lime		Time											\dagger	-	PH: 418.1 8015M 80	_	Т	Т		Ä.			D	-	Project Name:	RE
	_					_									T	PH: TX 1005 TX 1006	\dashv				m	71	. roject Loc.		Project #:	Š	8
	g'	00	abe Cust	Sam	ab	_									С	ations (Ca, Mg, Na, K)	7				at	PO #:	5	3	ect #	lame	R
	eraf	y Sa y Co	ody ody	ple (<u> </u>	+						-			A	nions (CI, SO4, Alkalinity)		7 -			×	1	ľ	١	<i></i>	1"	A N
	ure	mple	cor seals seals	Cont	1	+	+								-	AR / ESP / CEC		TOTAL:	П		Sts						DA
	Temperature Upon Receint	by Sampler/Client Rep. ? by Courier? UPS I	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered	Sample Containers Intact? VOCs Free of Headspace?	aboratory Comments:	+	+				_			_	_	etals: As Ag Ba Cd Cr Pb Hg	Se				x Standard						Ž.
	n Re	ent F	cool cont	rs In	-	+	+	-						<u> </u>	+	olatiles			Analyze For:		<u>a</u>		7				X
1	0 P.	S ep	aine er(s)	tact a		+	+	-		-	-	-		-	-	emivolatiles	_	_	e Fo				Ş	30		<u>B</u> .	S
		뭐	n(s)	2			\forall			-	\dashv			_	R	TEX 8021B/5030 or BTEX 826	60	\perp	ă		Ų	205-2020	220-32E,	3	R	Bilbrey SWD #1	SEQ.
														_	-	O.R.M.			$\ \ $		L TRRP	-20:	1.0	-	1RP-3606	WS	UE
V.	\	FedEx S	. ^-	20					×	×	×	×	×	×	+-	nlorides	*******		$\ \ $		0	00	à	,	90	VD #	ST
iç			, Ag	aa									***************************************		S	AR	-	-	П				Lea County			#	
2440	-	Lone Star	Ozz	22	L	_	\sqcup											************			_J Z		Z				
(,	Star	V		-	_	-	-		-			-		RI	USH TAT (Pre-Schedule) 24, 4	18, 77	2 hrs	٦		NPDES						
-			100						×	×	×	×	×	×	St	andard TAT					(V)					Pag	e 5 of 5
																								1	-	-	



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

January 07, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

FAX

RE: Bilbery SWD #1

OrderNo.: 1512A78

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 16 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 qualifers 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1512A78

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/7/2016

CLIENT: Yates Petroleum Corporation Lab Order: 1512A78 Bilbery SWD #1 Project: Lab ID: 1512A78-001 Collection Date: 12/16/2015 9:53:00 AM Client Sample ID: 1-15' Matrix: SOIL Analyses Result **RL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 12000 750 500 12/31/2015 10:48:58 PM 23018 mg/Kg Lab ID: 1512A78-002 Collection Date: 12/16/2015 10:03:00 AM Client Sample ID: 1-20' Matrix: SOIL Analyses Result RL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 7200 300 mg/Kg 200 12/31/2015 11:01:22 PM 23018 Lab ID: 1512A78-003 Collection Date: 12/16/2015 10:15:00 AM Client Sample ID: 1-25' Matrix: SOIL Result RL Qual Units Analyses **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 5900 300 mg/Kg 200 12/31/2015 11:13:47 PM 23018 Lab ID: 1512A78-004 Collection Date: 12/16/2015 10:28:00 AM Client Sample ID: 1-30' Matrix: SOIL Result **RL Qual Units Analyses DF** Date Analyzed Batch ID **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 75 1600 mg/Kg 12/31/2015 11:26:11 PM 23018 Lab ID: 1512A78-005 Collection Date: 12/16/2015 10:50:00 AM Client Sample ID: 1-35' Matrix: SOIL Analyses Result **RL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 1400 75 mg/Kg 12/31/2015 11:38:36 PM 23018

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

- 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 Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order: 1512A78

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/7/2016

CLIENT: Yates Petroleum Corporation Lab Order: 1512A78 Project: Bilbery SWD #1 Lab ID: 1512A78-006 Collection Date: 12/16/2015 11:20:00 AM Client Sample ID: 1-40' Matrix: SOIL Analyses Result RL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 3000 150 mg/Kg 100 12/31/2015 11:51:00 PM 23018 Lab ID: 1512A78-007 Collection Date: 12/16/2015 11:48:00 AM Client Sample ID: 1-45' Matrix: SOIL Analyses Result **RL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 2800 150 mg/Kg 100 1/1/2016 12:03:25 AM 23018 Lab ID: 1512A78-008 Collection Date: 12/16/2015 12:46:00 PM Client Sample ID: 1-50' Matrix: SOIL Analyses Result **RL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 410 30 mg/Kg 12/31/2015 12:43:59 AM 23018 Lab ID: 1512A78-009 Collection Date: 12/16/2015 1:20:00 PM Client Sample ID: 1-55' Matrix: SOIL **Analyses** Result **RL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 170 30 mg/Kg 12/31/2015 1:05:40 PM 23025 Lab ID: 1512A78-010 Collection Date: 12/16/2015 7:15:00 AM Client Sample ID: 2-5' Matrix: SOIL Analyses Result **RL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 210 30 mg/Kg 12/31/2015 1:42:54 PM 23025

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

- 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 Page 2 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order: 1512A78

Hall Environmental Analysis Laboratory, Inc. Date Reported: 1/7/2016

	ates Petroleum Cor Silbery SWD #1	poration			Lab Order: 15	12A78
Lab ID: Client Sample ID:	1512A78-011 2-10'	20 020 E			nte: 12/16/2015 7:21:0	0 AM
Analyses		Result	RL Q	ual Units	DF Date Analyze	d Batch ID
EPA METHOD 300	.0: ANIONS				,	Analyst: LGT
Chloride		540	30	mg/Kg	20 12/31/2015 1:58	5:19 PM 23025
Lab ID:	1512A78-012			Collection Da	ate: 12/16/2015 7:30:0	0 AM
Client Sample ID:	2-15'			Mat	rix: SOIL	
Analyses		Result	RL Q	Qual Units	DF Date Analyze	d Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	4200	150	mg/Kg	100 1/4/2016 9:55:3	Analyst: LGT 2 PM 23025
Lab ID:	1512A78-013			Collection Da	ate: 12/16/2015 8:00:0	00 AM
Client Sample ID:	2-20'			Mat	rix: SOIL	
Analyses		Result	RL Q	Qual Units	DF Date Analyze	d Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	7400	300	mg/Kg	200 1/4/2016 10:07	Analyst: LGT :56 PM 23025
Lab ID:	1512A78-014			Collection D	ate: 12/16/2015 8:12:0	00 AM
Client Sample ID:	2-25'			Mat	rix: SOIL	
Analyses		Result	RL (Qual Units	DF Date Analyze	d Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	4700	150	mg/Kg	100 1/4/2016 10:20	Analyst: LGT :20 PM 23025
Lab ID:	1512A78-015			Collection D	ate: 12/16/2015 8:36:0	00 AM
Client Sample ID:	2-30'			Mat	rix: SOIL	
Analyses		Result	RL (Qual Units	DF Date Analyze	d Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	43	30	mg/Kg		Analyst: LGT 9:47 PM 23025

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

- 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 Page 3 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order: 1512A78

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:

Yates Petroleum Corporation

Lab Order:

1512A78

Project: Lab ID:

Analyses

Bilbery SWD #1

1512A78-016

Collection Date: 12/16/2015 9:03:00 AM

Matrix: SOIL

Client Sample ID: 2-35'

RL Qual Units

DF Date Analyzed

Batch ID

EPA METHOD 300.0: ANIONS

30

Analyst: LGT

Chloride

170

Result

mg/Kg

20 12/31/2015 3:22:11 PM 23025

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

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 5
- Sample pH Not In Range
- RLReporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1512A78

07-Jan-16

Client:

Yates Petroleum Corporation

Project:

Bilbery SWD #1

Sample ID MB-23018 SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 23018 RunNo: 31168 Prep Date: 12/30/2015 Analysis Date: 12/30/2015 SeqNo: 954183 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-23018 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 23018 RunNo: 31168 Prep Date: 12/30/2015 Analysis Date: 12/30/2015 SeqNo: 954184 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 14 1.5 15.00 93.7 90

Sample ID MB-23025 SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: **PBS** Batch ID: 23025 RunNo: 31195 Prep Date: 12/31/2015 Analysis Date: 12/31/2015 SeqNo: 955233 Units: mg/Kg Analyte Result SPK value SPK Ref Val %REC LowLimit **RPDLimit** HighLimit %RPD Qual Chloride ND 1.5

Sample ID LCS-23025 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 23025 RunNo: 31195 Prep Date: 12/31/2015 Analysis Date: 12/31/2015 SeqNo: 955234 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 14 1.5 15.00 93.0 110

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
 - Sample pH Not In Range
- RL Reporting Detection Limit

P

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NL Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Yates Petrol	eum Corporat	Work Order N	Number:	1512/	178			Rcp	tNo: 1
Received by/date	e: A	K	12/28/15							
Logged By:	Lindsay Ma	ingin	12/23/2015 9:4	0:00 AM			July	4		
Completed By:	Lindsay Ma	ıngin	12/23/2015 10:	43:06 AN	Λ		Junely	Hypo		
Reviewed By:	()s	12/23/15				U	U		
Chain of Cus	tody		()(-)							
1. Custody sea	ls intact on sa	mple bottles?			Yes		No		Not Present	
2. Is Chain of C	Custody compl	lete?			Yes		No	[]	Not Present	
3. How was the	sample deliv	ered?			Cour	<u>ier</u>				
<u>Log In</u>										
4. Was an atte	empt made to	cool the samples	?		Yes		No	[]	NA	. []
5. Were all san	nples received	l at a temperature	e of >0° C to 6.0°	°C	Yes		No	Li	NA	
6. Sample(s) in	n proper conta	iner(s)?			Yes		No			
7. Sufficient sa	mple volume f	for indicated test(s)?		Yes		No			
8. Are samples	(except VOA	and ONG) prope	rly preserved?		Yes		No	[]		
9. Was preserv	rative added to	bottles?			Yes		No		NA	
10.VOA vials ha	ave zero head	space?			Yes		No		No VOA Vials	
11. Were any sa	ample contain	ers received brok	en?		Yes		No			
12.Does paper	work match bo	ttle labels?			Yes		No	[. J	# of preserved bottles checked for pH:	
(Note discre	pancies on ch	ain of custody)							• • • • • • • • • • • • • • • • • • • •	(<2 or >12 unless noted)
		ntified on Chain o	f Custody?		Yes	[P]	No		Adjusted	1?
14, is it clear wh					Yes		No		Chaskad	hie
15. Were all hole (If no, notify	customer for a				Yes		No	I J	Checked	by.
Special Hand	lling (if app	olicable)								
16. Was client n	otified of all di	screpancies with	this order?		Yes		No		NA	
Person	n Notified:		Marin	Date:		******				
By Wh	nom:			Via: [] eMa	ail 🔲	Phone []	Fax	☐ In Person	
Regard				No.		4-4-4-4-		*****		
Client	Instructions:			***************************************		***************************************	-			
17. Additional re	emarks:									
18. Cooler Info		Condition S	eal Intact Seal	No S	eal D	ate	Signed I	Ву		
Para	J.J	JOOU 16	8		8 8				l	

Yates Paddress:	Yates Petroleum Corporation	X Standard	□ Rush				N	ALY	SIS	5	ROS	ANAI YSTS I ABORATORY	>
ddress: th 4th Stree		Designet Nome				-	-	-	-		-	-	
ddress: th 4th Stree		Project Name			I		WWW	/halle	nviron	www.hallenvironmental.com	E CO		
th 4th Stree			Bilbrey SWD #1	D#1	9	01 Hay	vkins P	一 山	Mbuqu	erque,	4901 Hawkins NE - Albuquerque, NM 87109	109	
	sia, NM 88210	Project #:			Ţ	el. 505	Tel. 505-345-3975	975	Fax	505-3	505-345-4107		
Juone #:	575-513-8799 or 575-748-4111	1RP-3	506, 1RP-36	1RP-3606, 1RP-3669, 1RP-3834			100 m	An	alysis	Analysis Request	St	7 6400	
-ax#:	agriffin@yatespetroleum.com	Project Manager:	jer:		-				os	8,8			
ài	O I level 4 (Euil Validation)		Amber Griffin PO # 205-2020	riffin 2020	-				'b0d' ⁸	S bCE			
Arreditation:		Sampler:	Am	Amber Griffin AG) 89	1	(H	ON,	808	((N
□ NELAP □ Other			□ Yes	Z No. /		110				/ 66	AO		, or
ype)		Sample Temperature:	erature:	45		8 bo			-				() =:
Date Time Matrix	ix Sample Request ID	Container Type and #	Preservativ e Type	HEAL NO. 1512ATS	M + X3T8 M + X3T8	прн Мењ	TPH (Meth	N9) 0168	RCRA 8 M	8081 Pest	ov) 80828 ne2) 0728		Air Bubble
12/76/2015 9:53 Soil	12-15	1 - 402.		JW-					×				
,	y 2-20°	1 - 402.		-02					×				-
1 3	1 2-25	1 - 402.		100					×				
	1 2-30	1 - 402.		-0001					×				1
	1 2-35	1 - 402.		-005					×				-
	1 2-40'	1 - 4oz.		700-				\exists	×	4	1		
	1 2-45	1 - 402.		-007					×				-
12/16/2015 12:46 Soil	1 2-50	1 - 402.		-00%				1	×		1		+
	1 2-55	1 - 402.		500					×				+
12/16/2015 7:15 Soil	2 \$-2.	1 - 402.		-010					×				
	.01-8 2	1 - 402.		710-					×				-
	28-15	1 - 40z.	L	715					×				
Time:	Refinculshed by:	Received by:		0	Remarks:	ř	Anions: Chloride only.	Chlor	ide or	÷			
15 80g	(Imbar Griffin	Received by:	12	Date Time			Q	200	1000 A 2	7			
	ist of oy.							P					

If necessary, samples submitted to Hall Environmental may be subcor

### Address: Address: Address: Address: Address: Address: Address: AT5-513-8799 or 575-748-4111 Address: AT5-513-8799 or 575-748-4111 A 575-513-8799 or 575-748-4111 Package: Captage Captage Captage A 575-513-8799 or 575-748-4111 A 675-613-8799 or 575-748-4111 A 75-8015 A 7-801 A 7-8015 A 7-801 A 8-8016 A 7-801 A 8-8016 A 7-801 A 8-8016 A 7-801 A 8-8017 A 7-801 A 8-8018 A 8-801 A 8-8018 A 8-8018 A 8-8018 A	Chante Cohen Cohen	Companyion					
Aft Street Artesia, NM 82210	Yates Petroleum	Corporation	X Standard	Rush	ANALY	<i>ISIS LABORAT</i>	ORY
Ath Street Artesia, NM 88210 Project #: Sinbrey SWD #1			Project Name:	K A	www.halle	nvironmental.com	
Ath Street Artesia, NM 88210	Address:			rey SWD #1	4901 Hawkins NE -	Albuquerque, NM 87109	
Sample S					Tel. 505-345-3975	Fax 505-345-4107	
Container Project Manager: Container Project Manager: Container Project Manager: Container Project Manager: Container	#: 575-513-8	3799 or 575-748-4111	1RP-3606, 11	RP-3669, 1RP-3834		alysis Request	
Container Cont		zatespetroleum.com	Project Manager:		ijuo		
Time Matrix Sampler Amber Griffin Am	ä	☐ Level 4 (Full Validation)	A PO	ber Griffin # 205-2020	වෙ) (***************************************
Time Metrix Sample Temperature: C/3 Metrix					H9T 68 (1.1)	808	(N
Time Matrix Sample Temperature: U. Matrix Sample Request ID Type and # Preservetiv HEAL No. LACE.					101 814 803	/ 86	, or
Time Metrin Sangple Request ID Type and # e Type Language Foresevet V Language L	O (Type)		Sample Temperature	100	198 3 bd 5 bo 6 bod 10 d	din, cide	۸, ۶
8.12 Soil 24-20' 1-40z0/2 8.12 Soil 24-25' 1-40z0/5 9.03 Soil 24-35' 1-40z0/6 19.03 Soil 24-35' 1-40z0/6 Firmer: Refincuished by: 8.00 A Clark Charles by: Recoived by:	Time	Saggele Request ID)	M + XƏTB TPH Meind HQT HIPM) HQT ANQ) 01E8	Aniona (F., 1808 Pesti 1909 (VC	Air Bubble
8.36 Soil 23-25' 1-4oz 072-{ 5 8:36 Soil 23-35' 1-4oz 015- 5 9:03 Soil 23-35' 1-4oz 016- 7 Ime: Reincuished by: Received by: Receive	8:00	\$-20.	1 - 402.	-013		×	
5 9:03 Soil 1/3-30' 1-40z015 5 9:03 Soil 1/3-35' 1-40z016 Time: Refincuished by: Sight Cimber Council by:	8:12 Soil	3-25'	1 - 402.	1-01-		×	
5 9:03 Soil 1/3-35 1-402 01 % Time: Refinculshed by: Sigh Condition Received by:	8:36 Soil		1 - 4oz.	510-		x	
Time: Reincuished by: Received by: Pate Time Remarks: Anic Pate Time Remarks: Anic Pate Time Pate T	9:03 Soil		1 - 402.	100-		×	
Time: Refinculshed by: Received by: Received by: Received by: Received by: Received by: Received by:							
Time: Refinculshed by: Received by: Received by: Received by: Received by: Received by: Received by:							
Time: Refinculshed by: Received by: Received by: Received by: Received by: Received by:							
Time: Refinculshed by: Received by: Received by: Received by: Received by: Received by:							
Time: Refinculshed by: Received by: Receiv							
Time: Refinculshed by: Received by: Receiv							4
Time: Refinculshed by: Received by: Receiv			7				12724441204
Time: Relinculated by: Date Time	Time: Re	1 by Gradin	Received by:	_	Anio	ide only.	
	Time:	9	Received by:	Date Time	Laz	7 カイ	