MARTIN YATES, III 1912-1985 FRANK W. YATES 1936-1986 S.P YATES 1914-2008



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

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JOHN A. YATES

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January 22, 2016

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

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,

mber Griffin

Amber Griffin Environmental Regulatory Agent Yates Petroleum Corporation

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

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

Ensure BLM concurrence/approval.

Yates Petroleum Corporation

Bilbrey SWD #1 Work Plan

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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.





Bilbrey SWD #1

1-Surface Release area 41/5/2015 H501008 Carab/lager 21 800 21/20 0000 21/400 1-1' Release area 41/5/2015 H501008 Carab/lager 1 ND 57 57 2300 1-1' Release area 41/5/2015 H501024 Genb/lager 2* ND 5 7 2,300 3'' Release area 51/2/2015 H501241 Genb/line/Excavator 3* 2* 2 2 2,400 3'' Release area 51/2/2015 H501242 Genb/lini/Excavator 3* 2		Sample Area	Sample Date	Analytical Report	Sample Type	Depth	втех	GRO	DRO	TOTAL	Chlorides
Release area 415,2015 H50108 GabNager 1' ND ND ND S7 S7 Release area 517,22015 H501241 GabNager 2'' ND 10 144 124 Release area 517,22015 H501241 GabNini-Excavator 3'' - <td>1-Surface</td> <td>Release area</td> <td>4/15/2015</td> <td>H501008</td> <td>Grab/Auger</td> <td>Surface</td> <td>42.1</td> <td>880</td> <td>9,720</td> <td>10,600</td> <td>21,400</td>	1-Surface	Release area	4/15/2015	H501008	Grab/Auger	Surface	42.1	880	9,720	10,600	21,400
Release area 4/15/2015 H501008 GapMmi-Excavator 2* ND 10 114 124 Release area 5/12/2015 H501241 GabMmi-Excavator 3* 1 <	1-1'	Release area	4/15/2015	H501008	Grab/Auger	1.	QN	QN	57	57	9,330
Release area 5/12.015 H501241 GenMini-Excavator 3'	1-2'	Release area	4/15/2015	H501008	Grab/Auger	2'	DN	10	114	124	7,330
Release area \$	3'	Release area	5/12/2015	H501241	Grab/Mini-Excavator	3.	т	ı	1		4,000
Release area 5/12/2015 H501242 GrabMini-Excavator 5' ' <td>4'</td> <td>Release area</td> <td>5/12/2015</td> <td>H501241</td> <td>Grab/Mini-Excavator</td> <td>4'</td> <td>1</td> <td></td> <td></td> <td></td> <td>1,960</td>	4'	Release area	5/12/2015	H501241	Grab/Mini-Excavator	4'	1				1,960
Release area 5/12/2015 H501242 GrabMini-Excavator r	5'	Release area	5/12/2015	H501242	Grab/Mini-Excavator	5'	I	3	3	ï	3,920
Release area 5/12/2015 H501242 GrabMinit-Excavator T ·· Release area 12/16/2015 15/12/78 Hollow Stem Auger 20'' 10'' ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··<	6	Release area	5/12/2015	H501242	Grab/Mini-Excavator	6'	1	ï		i	10,400
Release area 5/12/2015 H501242 GrabMini-Excavator 8' - <td>7.</td> <td>Release area</td> <td>5/12/2015</td> <td>H501242</td> <td>Grab/Mini-Excavator</td> <td>7'</td> <td>,</td> <td>1</td> <td>•</td> <td></td> <td>11,200</td>	7.	Release area	5/12/2015	H501242	Grab/Mini-Excavator	7'	,	1	•		11,200
Release area 5/12/2015 H501242 GrabMini-Excavator 9' - <td>8,</td> <td>Release area</td> <td>5/12/2015</td> <td>H501242</td> <td>Grab/Mini-Excavator</td> <td>8</td> <td></td> <td>1</td> <td>,</td> <td>,</td> <td>5,440</td>	8,	Release area	5/12/2015	H501242	Grab/Mini-Excavator	8		1	,	,	5,440
Release area 5/12/2015 H501242 GrabMini-Excavator 10'' -<	9,	Release area	5/12/2015	H501242	Grab/Mini-Excavator	9'	1	ı		'	4,800
Release area 12/16/2015 15/12/38 Hollow Stem Auger 15'	10'	Release area	5/12/2015	H501242	Grab/Mini-Excavator	10'	r		6	L.	5,280
Release area 12/16/2015 1512A78 Hollow Stem Auger 20' - </td <td>1-15'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>15'</td> <td></td> <td>1</td> <td></td> <td></td> <td>12,000</td>	1-15'	Release area	12/16/2015	1512A78	Hollow Stem Auger	15'		1			12,000
Release area 12/16/2015 1512A78 Hollow Stem Auger 25' - </td <td>1-20'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>20'</td> <td>1</td> <td>1</td> <td>т</td> <td>- 10</td> <td>7,200</td>	1-20'	Release area	12/16/2015	1512A78	Hollow Stem Auger	20'	1	1	т	- 10	7,200
Release area 12/16/2015 1512A78 Hollow Stem Auger 30' - </td <td>1-25'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>25'</td> <td>3</td> <td>'n</td> <td>a</td> <td>ы</td> <td>5,900</td>	1-25'	Release area	12/16/2015	1512A78	Hollow Stem Auger	25'	3	'n	a	ы	5,900
Release area 12/16/2015 1512A78 Hollow Stem Auger 35' - </td <td>1-30'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>30'</td> <td>1</td> <td>ï</td> <td>a</td> <td>ı</td> <td>1,600</td>	1-30'	Release area	12/16/2015	1512A78	Hollow Stem Auger	30'	1	ï	a	ı	1,600
Release area 12/16/2015 1512A78 Hollow Stem Auger 40' - </td <td>1-35'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>35'</td> <td>,</td> <td>1</td> <td>,</td> <td>,</td> <td>1,400</td>	1-35'	Release area	12/16/2015	1512A78	Hollow Stem Auger	35'	,	1	,	,	1,400
Release area 12/16/2015 1512A78 Hollow Stem Auger 45' - </td <td>1-40'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>40'</td> <td>1</td> <td>ī</td> <td>ı.</td> <td>1</td> <td>3,000</td>	1-40'	Release area	12/16/2015	1512A78	Hollow Stem Auger	40'	1	ī	ı.	1	3,000
Release area 12/16/2015 1512A78 Hollow Stem Auger 50' - </td <td>1-45'</td> <td>Release area</td> <td></td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>45'</td> <td></td> <td></td> <td>•</td> <td>ı</td> <td>2,800</td>	1-45'	Release area		1512A78	Hollow Stem Auger	45'			•	ı	2,800
Release area 12/16/2015 1512A78 Hollow Stem Auger 55' - </td <td>1-50'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>50'</td> <td></td> <td></td> <td></td> <td>1</td> <td>410</td>	1-50'	Release area	12/16/2015	1512A78	Hollow Stem Auger	50'				1	410
Release area 4/15/2015 H501008 Grab/Auger Surface 25.7 541 13900 14441 Release area 4/15/2015 H501008 Grab/Auger 1' 46.9 913 2910 3823 Release area 4/15/2015 H501008 Grab/Auger 2' 6.49 78.6 491 569.6 Release area 12/16/2015 1512A78 Hollow Stem Auger 5' -	1-55'	Release area	12/16/2015	1512A78	Hollow Stem Auger	55'	ı	ï	•	ı	170
Release area 4/15/2015 H501008 Grab/Auger 1' 46.9 913 2910 3823 Release area 4/15/2015 H501008 Grab/Auger 2' 6.49 78.6 491 569.6 Release area 12/16/2015 1512A78 Hollow Stem Auger 5' -	2-Surface	Release area	4/15/2015	H501008	Grab/Auger	Surface	25.7	541	13900	14441	25,200
Release area 4/15/2015 H501008 Grab/Auger 2' 6.49 78.6 491 569.6 Release area 12/16/2015 1512A78 Hollow Stem Auger 5' -	2-1'	Release area	4/15/2015	H501008	Grab/Auger	1.	46.9	913	2910	3823	11,900
Release area 12/16/2015 1512A78 Hollow Stem Auger 5' - <td>2-2'</td> <td>Release area</td> <td>4/15/2015</td> <td>H501008</td> <td>Grab/Auger</td> <td>2'</td> <td>6.49</td> <td>78.6</td> <td>491</td> <td>569.6</td> <td>9,600</td>	2-2'	Release area	4/15/2015	H501008	Grab/Auger	2'	6.49	78.6	491	569.6	9,600
Release area 12/16/2015 1512A78 Hollow Stem Auger 10' - </td <td>2-5'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>5</td> <td></td> <td></td> <td>ī</td> <td>,</td> <td>210</td>	2-5'	Release area	12/16/2015	1512A78	Hollow Stem Auger	5			ī	,	210
Release area 12/16/2015 1512A78 Hollow Stem Auger 15' - </td <td>2-10'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>10'</td> <td></td> <td>•</td> <td>ı</td> <td></td> <td>540</td>	2-10'	Release area	12/16/2015	1512A78	Hollow Stem Auger	10'		•	ı		540
Release area 12/16/2015 1512A78 Hollow Stem Auger 20' - </td <td>2-15'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>15'</td> <td></td> <td>•</td> <td></td> <td></td> <td>4,200</td>	2-15'	Release area	12/16/2015	1512A78	Hollow Stem Auger	15'		•			4,200
Release area 12/16/2015 1512A78 Hollow Stem Auger 25' - </td <td>2-20'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>20'</td> <td>L</td> <td></td> <td></td> <td>1</td> <td>7,400</td>	2-20'	Release area	12/16/2015	1512A78	Hollow Stem Auger	20'	L			1	7,400
Release area 12/16/2015 1512A78 Hollow Stem Auger 30' - </td <td>2-25'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>25'</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>4,700</td>	2-25'	Release area	12/16/2015	1512A78	Hollow Stem Auger	25'		1	1	1	4,700
Release area 12/16/2015 1512A78 Hollow Stem Auger 35' - </td <td>2-30'</td> <td>Release area</td> <td>12/16/2015</td> <td>1512A78</td> <td>Hollow Stem Auger</td> <td>30'</td> <td>3</td> <td>•</td> <td>5</td> <td></td> <td>43</td>	2-30'	Release area	12/16/2015	1512A78	Hollow Stem Auger	30'	3	•	5		43
	2-35'	Release area	12/16/2015	1512A78	Hollow Stem Auger	35'	ī	'	•		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: 100 B/PW; Recovered: 90 B/PW. Release Date: 8/22/2015, 1RP-3834 Released: 20 B/PW; Recovered: 18 B/PW. Release Date: 6/2/2015, 1RP-3669



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 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.

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. Keine

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	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	Cool & Intact
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 1-SURFACE (H501008-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.766	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 (PID 132 % 61-154

ank BS	% Recovery	True Value QC	RPD	Qualifier
407	22.2			
187	93.6	200	1.51	
220	110	200	1.61	
	220	220 110	220 110 200	220 110 200 1.61

52.1-176

Surrogate: 1-Chlorooctadecane 227 %

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*=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 dient 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.

Celez D. Keine



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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	Cool & Intact
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

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 9	61-154	1				-		
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2015	ND	187	93.6	200	1.51	
DR0 >C10-C28	57.0	10.0	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	107 9	47.2-15	7				2. 2.		
Surrogate: 1-Chlorooctadecane	111 9	52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any daim 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.

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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	Cool & Intact
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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
GR0 C6-C10	10.0	10.0	04/18/2015	ND	187	93.6	200	1.51	90 - 09900 004000
DRO >C10-C28	114	10.0	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	107 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	110 9	52.1-17	6						

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Celeg Di Keene -



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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	Cool & Intact
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		sournenson

Sample ID: 2-SURFACE (H501008-04)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.287	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 (PIL	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	
DR0 >C10-C28	13900	100	04/18/2015	ND	220	110	200	1.61	

Surrogate: 1-Chlorooctadecane 334 % 52.1-176

161 %

47.2-157

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Surrogate: 1-Chlorooctane

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Celleg Z. Keine .-



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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	Cool & Intact
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

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	% 61-154							
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	913	50.0	04/18/2015	ND	187	93.6	200	1.51	
DRO >C10-C28	2910	50.0	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	154	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	145	% 52.1-17	6						

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Celey Di Keine-



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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	Cool & Intact
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

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

1000

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	% 61-154	1						
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	78.6	10.0	04/18/2015	ND	187	93.6	200	1.51	
DR0 >C10-C28	- 491 569 (10.0	04/18/2015	ND	220	110	200	1.61	
Surrogate: 1-Chlorooctane	113	47.2-15	7						
Surrogate: 1-Chlorooctadecane	124	52.1-17	6						

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Celleg Ditreene-



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

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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celleg D. Keine-

Celey D. Keene, Lab Director/Quality Manager

	Relinquished by:	Reindushed by:	Reinquished by:		Special Instructions:				0	-u	4	6	N	-	LAB # (lab use only)	(lab use only) ORDER #:	Sar	Tel	City	Co	Co	Pro	(Per
	~		" Cannor		ictions:						2-S			1-S	FIEL	HSO	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	ARDINAL LAI 101 East Maria
					TPH: 8015B, BT separate report.				2-2'	2-1'	2-Surface	1-2'	1-1'	1-Surface	FIELD CODE	H501008	Umber	575-748-4111 or 575-513-8799	Artesia, NM 88210	105 South 4th Street	Yates Petroleum Corporation	Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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	OT:		Slen	-	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
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en a an



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 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.

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. Keine

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	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	Cool & Intact
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 1-SURFACE (H501008-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21400	16.0	04/20/2015	ND	432	108	400	7.69	

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

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	04/20/2015	ND	432	108	400	7.69	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	04/21/2015	ND	416	104	400	3.92	

Sample ID: 2-SURFACE (H501008-04)

Chloride, SM4500CI-B n		/kg	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	04/21/2015	ND	416	104	400	3.92	

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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	Cool & Intact
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11900	16.0	04/21/2015	ND	416	104	400	3.92	

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

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	04/21/2015	ND	416	104	400	3.92	

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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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celez Di Keene

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by:	by:	ber Cannon						2-2'	2-1'	2-Surface	1-2'	1-1'	1-Surface	FIELD CODE	* H501008	Sampler Signature:	Telephone No: 575-74	City/State/Zip: Artesia, NM	Company Address: 105 So	Company Name Yates F	Project Manager: Amber	 101 East Marland, Hobbs, NM 88240
Date	Date	Date		TPH: 20158 81											0	bul	575-748-4111 or 575-513-8799	NM 88210	105 South 4th Street	Yates Petroleum Corporation	Amber Cannon	s, NM 88240
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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 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 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.

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,

Celeg D. Keine

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:	05/12/2015
Reported:	05/20/2015	Sampling Type:	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		

Sample ID: 3' (H501241-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	05/18/2015	ND	400	100	400	3.92	

Sample ID: 4' (H501241-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	05/18/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

	Samples reported on an as received basis (wet) unless otherwise noted on report
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
***	Insufficient time to reach temperature.
**	Samples not received at proper temperature of 6°C or below.
RPD	Relative Percent Difference
ND	Analyte NOT DETECTED at or above the reporting limit

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*=Accredited Analyte

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Date	Date	Slulis											- ¹⁹⁵ .		JUNDER CON	E D	575-748-4111 or 575-513-8799	Artesia, NM 88210	105 South 4th Street	Yates Petroleum Corporation	Cannon	s, NM 88240
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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 analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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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. Keine

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:	05/12/2015
Reported:	05/19/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	** (See Notes)
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 5' (H501242-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	05/18/2015	ND	400	100	400	3.92	

Sample ID: 6' (H501242-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	05/18/2015	ND	400	100	400	3.92	

Sample ID: 7' (H501242-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	05/18/2015	ND	400	100	400	3.92	

Sample ID: 8' (H501242-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	05/18/2015	ND	400	100	400	3.92	

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

Received:	05/14/2015	Sampling Date:	05/12/2015
Reported:	05/19/2015	Sampling Type:	Soil
Project Name:	BILBREY SWD #1	Sampling Condition:	** (See Notes)
Project Number:	1RP-3606	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 9' (H501242-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	05/18/2015	ND	400	100	400	3.92	

Sample ID: 10' (H501242-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	05/18/2015	ND	400	100	400	3.92	

Cardinal Laboratories

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Celles Differne -



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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celeg D. Keene_

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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

OrderNo.: 1512A78

Dear Amber Griffin:

RE: Bilbery SWD #1

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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environ	mental Analys	sis Laborato	ry, Inc.		Date Reported: 1/7/2	2016
	Yates Petroleum Corp Bilbery SWD #1	ooration		La	b Order: 1512	478
Lab ID: Client Sample ID:	1512A78-001 1-15'	аналананананананананананананананананана		Collection Date: Matrix:	12/16/2015 9:53:00 / SOIL	AM
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	12000	750	mg/Kg	An: 500 12/31/2015 10:48:	alyst: LGT 58 PM 23018
Lab ID: Client Sample ID:	1512A78-002 1-20'			Collection Date: Matrix:	12/16/2015 10:03:00 SOIL	AM
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	7200	300	mg/Kg	An 200 12/31/2015 11:01:	alyst: LGT 22 PM 23018
Lab ID: Client Sample ID:	1512A78-003 1-25'			Collection Date: Matrix:	12/16/2015 10:15:00 SOIL	AM
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	5900	300	mg/Kg	An 200 12/31/2015 11:13:	alyst: LGT 47 PM 23018
Lab ID: Client Sample ID:	1512A78-004 1-30'			Collection Date: Matrix:	12/16/2015 10:28:00 SOIL	AM
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	1600	75	mg/Kg	An 50 12/31/2015 11:26:	alyst: LGT 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 30 Chloride	0.0: ANIONS	1400	75	mg/Kg	An 50 12/31/2015 11:38	alyst: LGT 36 PM 23018

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 Page 1 of 5

Analytical Report Lab Order: 1512A78

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environ	mental Analysis	Laborato	ry, Inc.		Date Report		016
	ates Petroleum Corpora Ailbery SWD #1	tion		La	ab Order:	1512A	.78
Lab ID: Client Sample ID:	1512A78-006 1-40'	1. C		Collection Date: Matrix:		11:20:00	AM
Analyses		Result	RL Qual	Units	DF Date An	alyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	3000	150	mg/Kg	100 12/31/20		llyst: LGT 0 PM 23018
Lab ID:	1512A78-007		0	Collection Date:	12/16/2015	11:48:00	AM
Client Sample ID:	1-45'			Matrix:	SOIL		
Analyses		Result	RL Qual	Units	DF Date An	alyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	2800	150	mg/Kg	100 1/1/2016		Alyst: LGT 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 An	alyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	410	30	mg/Kg	20 12/31/20		alyst: LGT 59 AM 23018
Lab ID: Client Sample ID:	1512A78-009 1-55'			Collection Date: Matrix:		1:20:00 F	РМ
Analyses		Result	RL Qual	Units	DF Date An	alyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	170	30	mg/Kg	20 12/31/20		alyst: LGT) PM 23025
Lab ID:	1512A78-010			Collection Date:	12/16/2015	7:15:00 A	AM
Client Sample ID:	2-5'			Matrix:	SOIL		
Analyses		Result	RL Qual	Units	DF Date Ar	alyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	210	30	mg/Kg	20 12/31/20		alyst: LGT 4 PM 23025

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 Page 2 of 5

Analytical Report Lab Order: 1512A78

P Sample pH Not In Range

RL Reporting Detection Limit

Hall Environ	mental Analys	sis Laborato	ry, Inc.		Date Reported: 1/7/2	016
	Yates Petroleum Corp Bilbery SWD #1	ooration		La	b Order: 1512A	78
Lab ID:	1512A78-011	n in the second		Collection Date:	12/16/2015 7:21:00 A	M
Client Sample ID:	2-10'			Matrix:	SOIL	
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS				Ana	lyst: LGT
Chloride		540	30	mg/Kg	20 12/31/2015 1:55:19	PM 23025
Lab ID:	1512A78-012		8	Collection Date:	12/16/2015 7:30:00 A	M
Client Sample ID:	2-15'			Matrix:	SOIL	
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS				Ana	lyst: LGT
Chloride		4200	150	mg/Kg	100 1/4/2016 9:55:32 P	M 23025
Lab ID:	1512A78-013			Collection Date:	12/16/2015 8:00:00 A	M
Client Sample ID:	2-20'			Matrix:	SOIL	
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS				Ana	alyst: LGT
Chloride		7400	300	mg/Kg	200 1/4/2016 10:07:56 1	PM 23025
Lab ID:	1512A78-014			Collection Date:	12/16/2015 8:12:00 A	M
Client Sample ID:	2-25'			Matrix:	SOIL	
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS				Ana	alyst: LGT
Chloride		4700	150	mg/Kg	100 1/4/2016 10:20:20	PM 23025
Lab ID:	1512A78-015			Collection Date:	12/16/2015 8:36:00 A	AM
Client Sample ID:	: 2-30'			Matrix:	SOIL	
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS				Ana	alyst: LGT
Chloride		43	30	mg/Kg	20 12/31/2015 3:09:47	7 PM 23025

Qualifiers: * Va

- * 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

Analytical Report Lab Order: 1512A78

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Envir	onmental Analysi	s Laborate	ory, Inc.		Analytical Repo Lab Order: 1512A Date Reported: 1/	78
CLIENT: Project:	Yates Petroleum Corpo Bilbery SWD #1	ration			Lab Order: 151	2A78
Lab ID: Client Sample	1512A78-016 ID: 2-35'		8 .		Date: 12/16/2015 9:03:0 atrix: SOIL	0 AM
Analyses		Result	RL Qua	l Units	DF Date Analyzed	Batch ID
EPA METHOD Chloride	9 300.0: ANIONS	170	30	mg/Kg	/ 20 12/31/2015 3:22	Analyst: LGT 2:11 PM 23025

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 Page 4 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental	Analysis	Laboratory,	Inc.
		• /	

Client:		Petroleum Corporation			
Project:	Bilber	y SWD #1			
Sample ID	MB-23018	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 23018	RunNo: 31168		5 E 18 E
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	0 93.7 90	110	
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 PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit 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	0 93.0 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

Page 5 of 5

07-Jan-16

WO#: 1512A78

HALL Hall Environmental Analysis Laboratory ENVIRONMENTAL 4901 Hawkins NE ANALYSIS Albuquerque, NM 87109 LABORATORY TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com Client Name: Yates Petroleum Corporat

Sample Log-In Check List

Client Name:	Yates Petroleum Corporat	Work Order Numbe	er: 1512A	78		RcptNo:	1
Received by/dat	e: AK	12/23/15					
Logged By:	Lindsay Mangin	12/23/2015 9:40:00	AM		Andyther		
Completed By:	Lindsay Mangin	12/23/2015 10:43:06	AM		Andy Happ		
Reviewed By:	(s	12/23/15					
Chain of Cus	tody	•					
1. Custody sea	als intact on sample bottles?		Yes		No []]	Not Present	
2. Is Chain of (Custody complete?		Yes		No []]	Not Present	
3. How was the	e sample delivered?		Couri	er			
<u>Log In</u>							
4. Was an atte	empt made to cool the sample	es?	Yes		No [`]	na []	
5. Were all sar	nples received at a temperati	ure of >0° C to 6.0°C	Yes		No 🗌	NA []	
6. Sample(s) i	n proper container(s)?		Yes		No []]		
7. Sufficient sa	mple volume for indicated tes	si(s)?	Yeş		No 🗔		
8. Are samples	(except VOA and ONG) pro	perly preserved?	Yes		No []		
9. Was presen	vative added to bottles?		Yes		No 🗖	NA []]	
10.VOA vials h	ave zero headspace?		Yes		No 🗌	No VOA Vials 🛃	
11. Were any s	ample containers received br	oken?	Yes	[]]	No 🐼		
						# of preserved bottles checked	
	work match bottle labels? pancies on chain of custody)		Yes		No [.]	for pH:	or >12 unless noted)
	s correctly identified on Chain	of Custody?	Yes		No 📋	Adjusted?	or >12 unless holeo)
	nat analyses were requested?		Yes		No []		
15. Were all hol	ding times able to be met? customer for authorization.)		Yes		No [_]	Checked by:	
Special Hand	lling (if applicable)						
16. Was client r	notified of all discrepancies wi	th this order?	Yes		No 🗌	NA 🐼	
Perso	n Notified:	Date:	Γ	<u>ANNA A BAN</u>			
By Wi	nom:	Via:	eMa	il 🗋	Phone []] Fax	In Person	
Regar	· ·		Niel (419:111.)			4 M. I. Management and a state of the state	
Client	Instructions:					<u> </u>	
17. Additional r	emarks:						
18. Cooler Info		50 × 40					
Cooler N	and the second sec	Seal Intact Seal No	Seal Da	te	Signed By		
	9.8 Good	Yes	a a		8	l	
Page 1 o	of I						

	ates retroiet	rates redutedin ou potation	X Standard	C Rush			ANAL	NINY	ANALYSIS LABOKAI OKT	AIGRI
			Project Name:				www.hall	environm	www.hallenvironmental.com	
Valling Address:	SS:			Bilbrey SWD #1	1D #1	4901 Hav	4901 Hawkins NE -		Albuquerque, NM 87109	60
105 South 4t	h Street Arte	105 South 4th Street Artesia, NM 88210	Project #:			Tel. 505	Tel. 505-345-3975		505-345-4107	
Phone #:	575-51	575-513-8799 or 575-748-4111	1RP-36	06, 1RP-36	1RP-3606, 1RP-3669, 1RP-3834			1000	request	
smail or Fax#:	r i l F	agriffin@yatespetroleum.com	Project Manager.	er:		lno			5,8	
2A/OC Package. □ Standard	ä	Level 4 (Full Validation)		Amber Griffin PO # 205-2020	riffin 2020	J\seƏ) H			82 PC	
1 0			Sampler:	An	Amber Griffin AG	98 88	(1.1		-	
D NELAP		ter	On Ice:	C Yes	Z NO_ /	+	209	PON		
D EDD (Type)			Sample Temperature:	erature:	93	381 8 bo	ροι	l'ID	(AC	
Date	e L	Matrix Sample Request ID	Container Type and #	Preservativ e Type	HEAL NO. 15121778	BTEX + M	TPH (Meth EDB (Meth 8310 (PU/	M 8 AADA ,A) enoinA	8081 Pest 9260B (VC 8270 (Sen	
12/16/2015	9:53 Soil	12-15	1 - 402.		100-			×		
12/16/2015	10:03 Soil	1 2-20	1 - 402.		-02			×		
12/16/2015	10:15 Soil	1 2-25	1 - 402.		687			×		
12/16/2015	10:28 Soil	1 2-30	1 - 402.		-1001	-		×		
12/16/2015	10:50 Soil	1 2-35	1 - 4oz. -		-05			×		
12/16/2015	11:20 Soil	i 2-40'	- 4oz. -		- 0%			×		
12/16/2015	11:48 Soil	1 2-45	- 4oz. -		- 007			×		
12/16/2015	12:46 Soil	1 2-50	- 40Z. -		-00%			×		
12/16/2015	1:20 Soil	1 2-55	1 - 402.		-079			×		
12/16/2015	7:15 Soil	2 \$-5.	1 - 4oz		010-			×		
12/16/2015		2 3-10'	1 - 4oz. -		110-			×		
12/16/2015	1	24-15	1 - 402. A		-012			×		
Date: The Date:	1	Relincuished by:	Received by:		Date Time	Remarks: Ar	Anions: Chloride only.	oride only		
	Time: Reincuished	38	Received by:		Date Time		Per	Page 1 at 2	7	

Clear	Yates F	erroieur	Yates Petroleum Corporation	X Standard	d Rush		t	Г	NAI	Frish		RORA	ANAI YSTS I ABORATORY	
				Project Name:					www.hallenvironmental.com	lenviron	mental	com		
Mailing Address:	ess:				Bilbrey SWD #1	ND #1	490	11 Hawk	ns NE	Albuqt	ierque,	4901 Hawkins NE - Albuquerque, NM 87109		
105 South 4	Ith Stre	et Artes	105 South 4th Street Artesia, NM 88210	Project #:			Tel	Tel. 505-345-3975	5-3975	Fax	505-3	505-345-4107		
Phone #:		575-513	575-513-8799 or 575-748-4111	1RP-	3606, 1RP-36	1RP-3606, 1RP-3669, 1RP-3834			A	Analysis	Request	est		
email or Fax#:	推	agriffing	agriffin@vatespetroleum.com	Project Manager:	ager:			əsəj		'OS'				
QA/QC Package:	1 9 6:		I evel 4 (Full Validation)		Amber Griffin PO # 205-2020	z020		0\eeC	-	*04' ⁸				
Accreditation:				Sampler.		Amber Griffin AC	and the second s			ON'	-			IN
I NELAP		□ Other		On Ice:	D Yes	D No				-		(VC		JU
D EDD (Type)	(ə(Sample Temperature:	3	×					epio			د ۱۷
Date	Time	Matrix	Sagaple Request ID	Container Type and #	Preservativ e Type	HEAL NO.	M + X3T8 M + X3T8	niem H9T Hom) H9T	EDB (Мећ 8310 (РИР	M 8 Aମ୍ <mark>ଚ</mark> 27 (F,	8081 Pest	0V) 8068 (VC 8270 (Sen	-	Air Bubble
12/16/2015	8:00	8:00 Soil 7	23-20	1 - 402.		2013	in the second second			×				
12/16/2015	8:12	8:12 Soil 2	23-25	1 - 4oz.		- 0125			-	×				
12/16/2015	8:36	8:36 Soil 1	7/3-30'	- 4oz.		-015				×				
12/16/2015	9:03		24-35	1 - 4oz.		-016				×				
Date	Time:	Refinctuished by:	A be	Received by:		Date Time	Remarks:	1	Anions: Chloride only.	bride on				
112	Start Time:		ber Englin	Received by:	TA A	4	2		Day 2 of 2	74	2			