Yates Petroleum Cigarillo SWD System 2RP-2580

Upland Area
Initial Work Plan

From: Patterson, Heather, EMNRD

To: "Bob Asher"

Cc: Bratcher, Mike, EMNRD; "Martin, Ed"

Subject: RE: Form C-141 Initial Report (Cigarillo SWD System)

Date: Friday, December 19, 2014 9:24:00 AM

Bob,

The OCD and the State Land Office have been working with Ms. Cooksey on the clean-up of this entire area, including the Yates release. We would like to get an update on your remediation efforts, as well as any analytical results you may have gotten at this point. We would also like to see your plan of action as soon as possible. The Remediation Proposal for this release was due on December 5th.

Thank you,

Heather Patterson Environmental Specialist NMOCD District II (575)748-1283 ext.101

From: Bob Asher [mailto:BobA@yatespetroleum.com]

Sent: Tuesday, November 04, 2014 9:39 AM

To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD **Subject:** Form C-141 Initial Report (Cigarillo SWD System)

Attached is the Initial C-141.

Thank you.

Robert Asher

NM Environmental Regulatory Supervisor

Yates Petroleum Corporation

105 S. 4th Street Artesia, NM 88210 575-748-4217 (Office) 575-365-4021 (Cell)

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errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.

From: Bob Asher

To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD

Subject: Work Plan (Cigarillo SWD System)

Date: Monday, January 05, 2015 10:32:44 AM

Attachments: Cigarillo SWD System.pdf

Thank you.

Robert Asher

NM Environmental Regulatory Supervisor

Yates Petroleum Corporation

105 S. 4th Street Artesia, NM 88210 575-748-4217 (Office) 575-365-4021 (Cell)

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MARTIN YATES, III

FRANK W. YATES

5.P YATES



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES CHAIRMAN OF THE BOARD

JOHN A. YATES JR.

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EXECUTIVE V.P. OF MONETIZATION
CHIEF FINANCIAL OFFICER

JAMES S. BROWN CHIEF OPERATING OFFICER

January 5, 2015

Mr. Mike Bratcher NMOCD District II 1301 West Grand Artesia, NM 88210

Re:

Cigarillo SWD System (SE of the Bonbon BNN State Com. #1-H)

2RP-2580 30-015-36913

Section 27, T25S-R28E Eddy County, New Mexico

Dear Mr. Bratcher:

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated November 4, 2014.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of January 12, 2015.

If you have any questions call me at (575) 748-4217

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher

NM Environmental Regulatory Supervisor

Enclosure(s)

Yates Petroleum Corporation

Cigarillo SWD System Work Plan

Section 27, T25S-R28E

Eddy County, New Mexico

January 5, 2015

I. Location

The release point is located approximately 10 miles south of Malaga, NM and 0.25 miles west of Pecos Highway (US 285), as represented by the attached Red Bluff, NM, USGS Quadrangle Map.

II. Background

On November 4, 2014, Yates submitted to the NMOCD District II office a Form C-141 for a release of 20 B/O and 500 B/PW with 15 B/O and 375 B/PW recovered. The total affected area is approximately 330 feet by 1500 feet area. The release was from a buried poly line that failed. Initial impacted soils were excavated to depths between 12" and 24" and hauled to an approved NMOCD facility. Delineation samples were taken (11/13/2014) and sent to an NMOCD approved laboratory (results enclosed).

III. Surface and Ground Water

Area surface geology ranges from Cenozoic to Paleozoic. Groundwater of record is listed on the Chevron Texaco Trend Map shows depth to groundwater approximately 50 feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

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

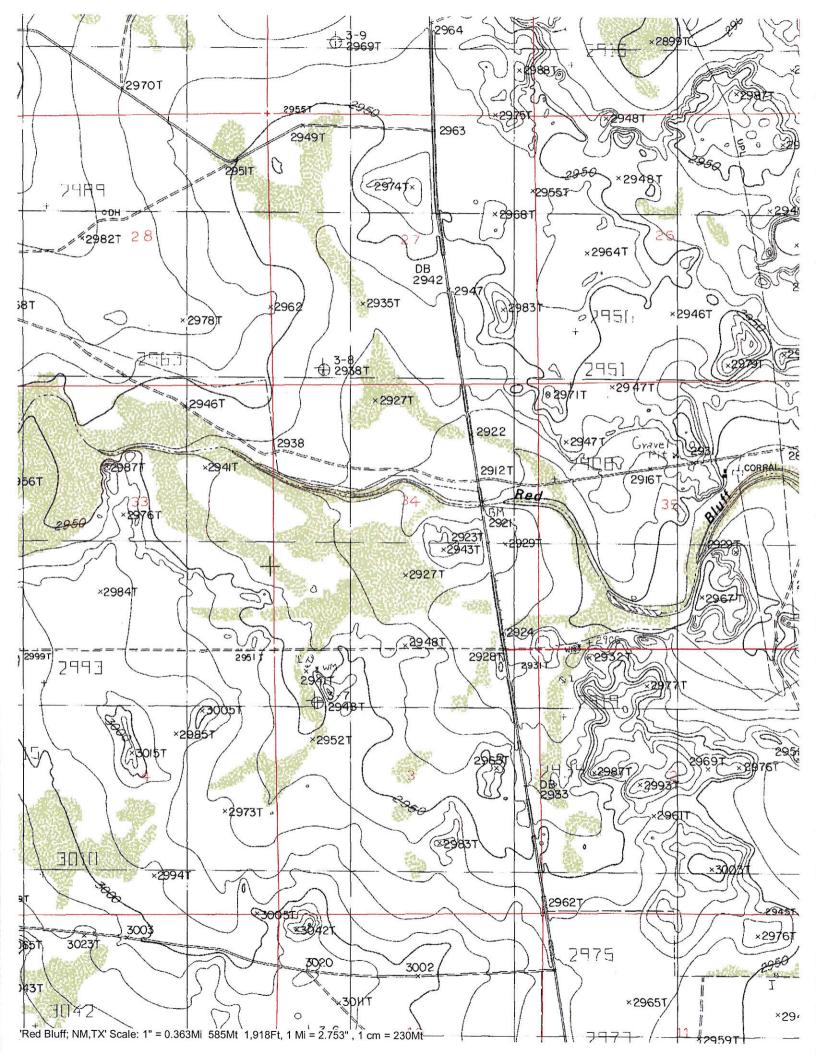
Depth to ground water 50-99'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

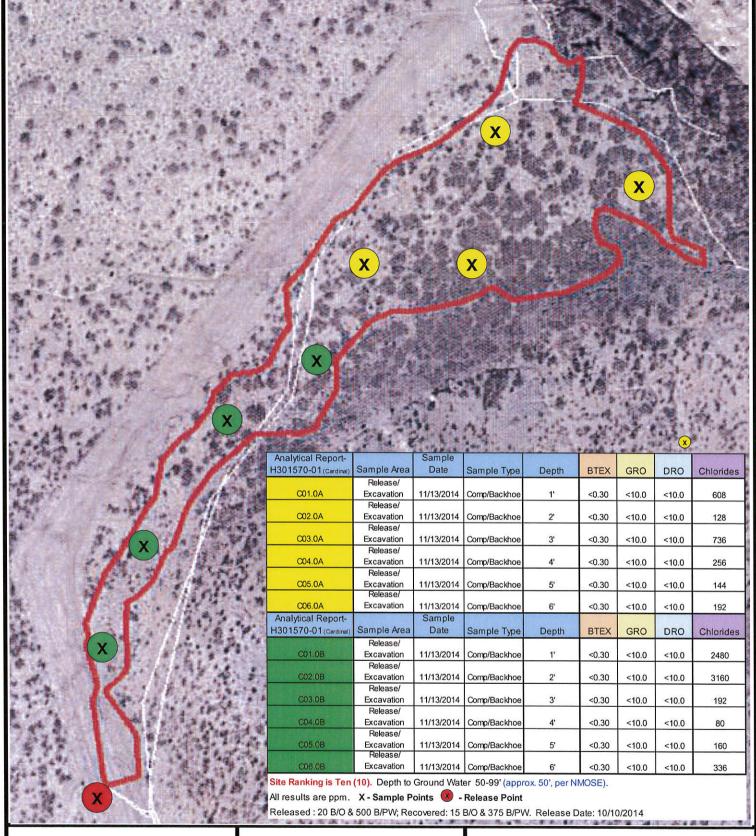
IV. Soils

The area consists of soils that are caliche and loamy top soil and are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work

Based on analytical results, Yates Petroleum Corporation will excavate two (2) feet of impacted soils within the release area designated in green on the enclosed sample diagram. Those soils will be taken to an approved NMOCD facility. Based on analytical results enclosed there is a decrease in chlorides, the TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10) within the entire release are, no further sampling will be conducted. When remediation work is completed a C-141, Final Report will be submitted to the NMOCD and request closure of the site. Upon Final C-141 approval the release area designated in green where further excavation work will be conducted (removal of 24" of impacted soils), like soils will be brought in and backfilled and the entire release area will be contoured to match current grade of surface.







Cigarillo SWD System

30-015-36913

Section 27, T25S-R28E

Eddy County, NM

SAMPLE DIAGRAM

Prepared by Robert Asher Environmental Regulatory Division



November 26, 2014

ROBERT ASHER
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: CIGARILLO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 11/20/14 16:30.

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

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.

Lope S. Moreno

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,

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

Sampling Type:

Soil

Project Name:

11/26/2014

Sampling Condition:

Cool & Intact

Project Number:

CIGARILLO SWD SYSTEM 30-015-36913

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

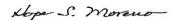
Sample ID: CO1.0A (H403581-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	92.2 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/24/2014	ND	416	104	400	0.00	
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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	130 %	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	150 %	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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

Received: Reported:

11/20/2014

11/26/2014

Project Name: Project Number:

CIGARILLO SWD SYSTEM 30-015-36913

Project Location:

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Jodi Henson

11/13/2014

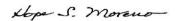
Sample ID: CO2.0A (H403581-02)

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	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	< 0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	90.2 9	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/24/2014	ND	416	104	400	0.00	
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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	126 9	6 47.2-15	7			To a second to the second to t			
Surrogate: 1-Chlorooctadecane	140 %	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

11/26/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

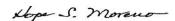
Sample ID: CO3.0A (H403581-03)

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	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	89.8 9	6 61-154							***************************************
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	11/24/2014	ND	416	104	400	0.00	
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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	128 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	142 9	6 52.1-17	6						

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YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

11/26/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: CO4.0A (H403581-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	90.5	% 61-154	07						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/24/2014	ND	416	104	400	0.00	
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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	131 9	% 47.2-15	7						1100
Surrogate: 1-Chlorooctadecane	145 9	52.1-17	6						

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Lope S. Moreno



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

11/26/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: CO5.0A (H403581-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	90.1	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					***
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/24/2014	ND	416	104	400	0.00	
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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	136	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	149	% 52.1-17	6						

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Lope S. Moreno



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

11/26/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: CO6.0A (H403581-06)

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	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	90.1	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/24/2014	ND	416	104	400	0.00	
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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	135 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	148 9	% 52.1-176	5						

Cardinal Laboratories

*=Accredited Analyte

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Alope S. Moreno



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Relinquished by	Relinquished by:	Relinquished by:		Special				6	Cr	4	B	2		LAB # (lab use only)	ORDER #:		(lab use only)							
ned by:	ned by:	ecolupc		Special Instructions: Pla				C06.0A	C05.0A	C04.0A	C03.0A	C02.0A	C01.0A	FIELD CODE		なったったエ	only)		Sampler Signature:	Telephone No: 575-748-4217	City/State/Zip: Artesia, N	Company Address: 105 South	Comp: (505) 393-232€ Yates Petroleum Corporation	Project Manager: Robert Asher
Date	Date	Date 11/20/14		ease put Chlori																4217	Artesia, NM 88210	105 South 4th Street	roleum Corporation	sher
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Te	Sa	5 C L	5	Sa	_	\vdash	\dashv	\dagger	\vdash			\vdash	 	Cations (Ca, Mg, Na, K)				П		at:	PO #:	6	ct #	ame
emperature l	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	Labels on container(s) Custody seals on container Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments: Sample Containers Intact?			\dashv	×	×	×	×	×	×	Anions (CI)		7	١.	П		×		lm	3	lo.
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1						, 1	1	IX	12	LX.		×	×	Standard TAT								1		



December 02, 2014

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: CIGARILLO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 11/20/14 16:30.

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

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 ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

12/02/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Sample Received By:

Project Location:

EDDY COUNTY, NM

Jodi Henson

Sample ID: CO1.0B (H403582-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.73	86.5	2.00	6.14	
Toluene*	<0.050	0.050	11/25/2014	ND	1.71	85.5	2.00	6.80	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.71	85.3	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.19	86.4	6.00	7.82	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	136	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	150	% 52.1-17	6						

Cardinal Laboratories

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Celeg Ditreens



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

Sampling Type:

Soil

Project Name:

12/02/2014

Sampling Condition:

Cool & Intact

CIGARILLO SWD SYSTEM

Project Number: Project Location:

30-015-36913 EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: CO2.0B (H403582-02)

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	11/25/2014	ND	1.73	86.5	2.00	6.14	
Toluene*	<0.050	0.050	11/25/2014	ND	1.71	85.5	2.00	6.80	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.71	85.3	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.19	86.4	6.00	7.82	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 5	% 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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	132 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	144 9	% 52.1-176	6						

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YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

12/02/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: CO3.0B (H403582-03)

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	11/25/2014	ND	1.73	86.5	2.00	6.14	
Toluene*	<0.050	0.050	11/25/2014	ND	1.71	85.5	2.00	6.80	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.71	85.3	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.19	86.4	6.00	7.82	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	6 61-154	r:						
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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	133 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	146 9	6 52.1-17	6						

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Celeg & Keens



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

12/02/2014

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

CIGARILLO SWD SYSTEM 30-015-36913

Project Number: Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: CO4.0B (H403582-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.73	86.5	2.00	6.14	
Toluene*	<0.050	0.050	11/25/2014	ND	1.71	85.5	2.00	6.80	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.71	85.3	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.19	86.4	6.00	7.82	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 61-154	0						
TPH 8015M	mg,	/kg	Analyze	d By: ms	والمتعالة المتعادة والمتعادة والمتعادة والمتعادة والمتعادة والمتعادة والمتعادة والمتعادة والمتعادة والمتعادة وا				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	134	% 47.2-15	7			HK of the state of			
Surrogate: 1-Chlorooctadecane	147	% 52.1-17	6						

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YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

12/02/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: CO5.0B (H403582-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.73	86.5	2.00	6.14	
Toluene*	<0.050	0.050	11/25/2014	ND	1.71	85.5	2.00	6.80	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.71	85.3	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.19	86.4	6.00	7.82	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	131 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	146 9	% 52.1-17	6						

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Celeg & Keens



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

12/02/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: CO6.0B (H403582-06)

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	11/25/2014	ND	1.73	86.5	2.00	6.14	
Toluene*	<0.050	0.050	11/25/2014	ND	1.71	85.5	2.00	6.80	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.71	85.3	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.19	86.4	6.00	7.82	
Total BTEX	<0.300	0.300	11/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 61-154	ſ						
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	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	
Surrogate: 1-Chlorooctane	129	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	143	% 52.1-17	6						

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Colleg & Frence



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

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Celey & Keens



	Relinqui	Relinqu	Relinqu		Special				•	6	S	t	W	2	_	LAB # (lab use only)	(lab use only) ORDER #:								6	0
	Relinquished by:	Relinquished by:	Relinquished by:		Special Instructions: P		y-m 				C05.0B	C04.0B	C03.0B	C02.0B	C01.0B	FIELD CODE	R#: H403582	0	ture:		City/State/Zip: Artesia, NM	Company Address: 105 Sout	Comp: (505) 393-232€ Yates Petroleum Corporation	Project Manager: Robert Asher	101 East Marland, Hobbs, NM 88240	ARDINAL LABORATORIES
	Date	Date	Date 11/20/14		Please put Chlorides on separate report. ALL results in mg/kg. Thank you														(2)	4217	NM 88210	105 South 4th Street	troleum Corporation	sher	s, NM 88240	RIES
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	Received by ELOT:	Received by:	Received by:	3	parate report. A					11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	Date Sampled									(505) 393-2326 FAX (505) 393-2476	
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December 02, 2014

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: CIGARILLO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 11/20/14 16:30.

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

Celey D. Kune

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 ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Analyzed By: AP

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

Chloride, SM4500CI-B

12/02/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Project Location:

EDDY COUNTY, NM

ma/ka

Sample Received By:

Jodi Henson

Sample ID: CO1.0B (H403582-01)

Cilioride, 314300CI-B	nig/	ĸy	Allalyze	u by. AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	11/24/2014	ND	416	104	400	0.00	
Sample ID: CO2.0B (H403	3582-02)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	11/24/2014	ND	416	104	400	0.00	
Sample ID: CO3.0B (H403	POLICY OF DESCRIPTION OF A								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/24/2014	ND	416	104	400	0.00	
Sample ID: CO4.0B (H403	3582-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/24/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celleg & treens-

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2014

Sampling Date:

11/13/2014

Reported:

12/02/2014

Sampling Type:

Soil

Project Name:

CIGARILLO SWD SYSTEM

Sampling Condition:

Cool & Intact

Project Number:

30-015-36913

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: CO5.0B (H403582-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/24/2014	ND	416	104	400	0.00	
Sample ID: CO6.0B (H40)	3582-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/24/2014	ND	416	104	400	0.00	

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Celeg & Keene



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

*=Accredited Analyte

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Celey & Kreno

From: <u>Bratcher, Mike, EMNRD</u>

To: Bob Asher

Cc: Patterson, Heather, EMNRD

Subject: RE: Work Plan (Cigarillo SWD System)

Date: Wednesday, January 14, 2015 2:55:41 PM

Bob,

Due to the nature of this release, I am not sure composite samples will be sufficient for analyzing impact. Also, I don't see any data from the draw area, down to the bridge. We may need to go out and re-visit the site to see what has been done so far. I don't see any sense in going down there until things have had a chance to dry out some. I will schedule a time to check it out after we have had a few days of sunshine.

Thanks,

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108

C: 575-626-0857 F: 575-748-9720

From: Bob Asher [mailto:BobA@yatespetroleum.com]

Sent: Wednesday, January 14, 2015 8:42 AM

To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD

Subject: RE: Work Plan (Cigarillo SWD System)

Checking the status of the submitted work plan.

Thank you.

Robert Asher

Yates Petroleum Corporation

NM Environmental Regulatory Supervisor

575-748-4217 (O)

boba@yatespetroleum.com

From: Bob Asher

Sent: Monday, January 05, 2015 10:32 AM

To: heather.patterson@state.nm.us; (mike.bratcher@state.nm.us)

Subject: Work Plan (Cigarillo SWD System)

Thank you.

Robert Asher

NM Environmental Regulatory Supervisor

Yates Petroleum Corporation

105 S. 4th Street Artesia, NM 88210 575-748-4217 (Office) 575-365-4021 (Cell)

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