

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986

S. P. YATES  
1914-2008



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TELEPHONE (575) 748-1471  
[www.yatespetroleum.com](http://www.yatespetroleum.com)

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JAMES S. BROWN  
CHIEF OPERATING OFFICER

July 23, 2013

Ms. Jennifer Van Curen  
BLM - Carlsbad District Office  
320 East Greene Street  
Carlsbad, NM 88220

RE: Martha AIK Federal #1 Tin Horn  
30-015-26549  
Section 11, T22S-R31E  
Eddy County, New Mexico

Ms. Van Curen,


Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on June 7, 2013.

Initial TPH/BTEX and Chloride delineation samples were taken and were sent to a NMOCD approved facility; analytical results are enclosed for your review. The release area was split and sampled in two separate sections. On the analytical results and site diagram attached, area one is represented as MT1 and area two is represented by MT2.

Yates Petroleum Corporation proposes to excavate two (2) feet from section MT1 and excavate one (1) foot from section MT2. The impacted soils would then be disposed of at a NMOCD approved facility. After excavation and disposal, the excavation would be backfilled with clean, like material. The site would then be added to our seeding list for 2014, as Yates Petroleum has already completed seeding for 2013. The area would then be monitored for re-vegetation.

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

Thank You,

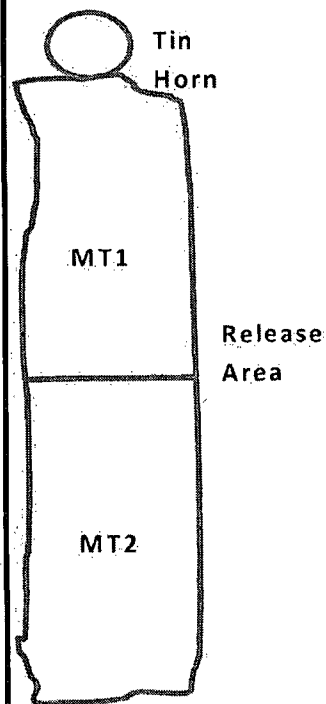
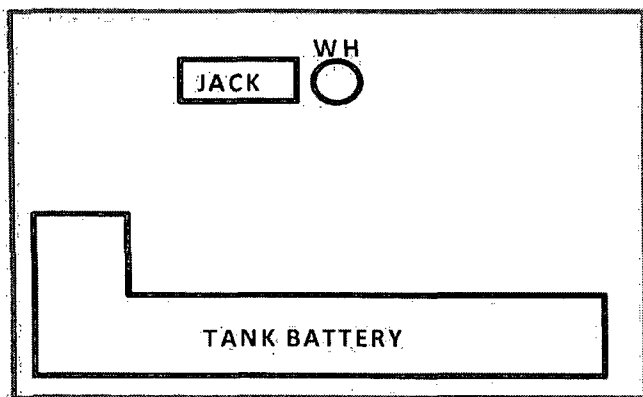
  
Amber Cannon  
Environmental Regulatory Agent  
Yates Petroleum Corporation

Enclosure(s):

1. Site Diagram
2. Analytical Reports



Martha AIK Federal #1 Location



Martha AIK Federal #1 Tin Horn

30-015-26549

Section 11, T22S-R31E

Eddy County, NM

Prepared by Amber Cannon  
Environmental Regulatory Agent

\*DRAWING NOT TO SCALE\*



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 19, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S. 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 07/12/13 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder

Organic Supervisor

**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT 1-1 (H301631-01)**

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103% 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

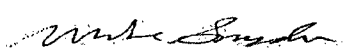
Surrogate: 1-Chlorooctane 88.5% 65.2-140

Surrogate: 1-Chlorooctadecane 94.5% 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT-1-2 (H301631-02)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2013	ND	2.17	108	2.00	2.05		
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00		
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06		
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23		
Total BTEX	<0.300	0.300	07/15/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M.		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

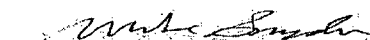
Surrogate: 1-Chlorooctane 90.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.1 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

 Received: 07/12/2013  
 Reported: 07/19/2013  
 Project Name: MARTHA AIK FEDERAL #1 (TIN HORN)  
 Project Number: 30-015-26549  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: MT 1-3 (H301631-03)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTEX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 105% 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

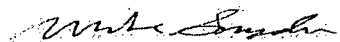
Surrogate: 1-Chlorooctane 89.7% 65.2-140

Surrogate: 1-Chlorooctadecane 96.7% 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT 1-4 (H301631-04)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTEX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104% 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

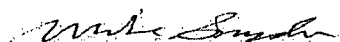
Surrogate: 1-Chlorooctane 92.8% 65.2-140

Surrogate: 1-Chlorooctadecane 97.3% 63.6-154

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\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT-1-5 (H301631-05)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2013	ND	2.17	108	2.00	2.05		
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00		
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06		
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23		
Total BTEX	<0.300	0.300	07/15/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104% 89.4-126

Chloride, SM4500CI-B		mg/kg.		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	


Surrogate: 1-Chlorooctane 89.5% 65.2-140

Surrogate: 1-Chlorotriadecane 95.7% 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Mike Snyder, Organic Supervisor



**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT 1-6 (H301631-06)**

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

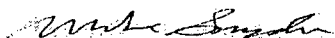
Surrogate: 1-Chlorooctane 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.9 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT 2-1 (H301631-07)**

BTEX 8021B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTEX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 10.1% 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

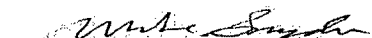
Surrogate: 1-Chlorooctane 85.0% 65.2-140

Surrogate: 1-Chlorooctadecane 91.2% 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

 Received: 07/12/2013  
 Reported: 07/19/2013  
 Project Name: MARTHA AIK FEDERAL #1 (TIN HORN)  
 Project Number: 30-015-26549  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: MT-2-2 (H301631-08)**

BTEX 8021B:		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2013	ND	2.17	108	2.00	2.05		
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00		
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06		
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23		
Total BTEX	<0.300	0.300	07/15/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

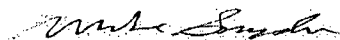
Surrogate: 1-Chlorooctane 91.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.2 % 63.6-154

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\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT 2-3 (H301631-09)**

BTEX 8021B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8	
Toluene*	<0.050	0.050	07/16/2013	ND	2.18	109	2.00	14.6	
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2	
Total Xylenes*	<0.150	0.150	07/16/2013	ND	6.53	109	6.00	13.9	
Total BTEX	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

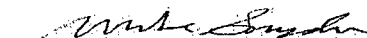
Surrogate: 1-Chlorooctane 86.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT-2-4 (H301631-10)**

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8	
Toluene*	<0.050	0.050	07/16/2013	ND	2.18	109	2.00	14.6	
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2	
Total Xylenes*	<0.150	0.150	07/16/2013	ND	6.53	109	6.00	13.9	
Total BTX:	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 106% 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	658	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

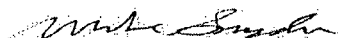
Surrogate: 1-Chlorooctane 90.2% 65.2-140

Surrogate: 1-Chlorooctadecane 97.0% 63.6-154

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT 2-5 (H301631-11)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8	
Toluene*	<0.050	0.050	07/16/2013	ND	2.18	109	2.00	14.6	
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2	
Total Xylenes*	<0.150	0.150	07/16/2013	ND	6.53	109	6.00	13.9	
Total BTEX	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	


Surrogate: 1-Chlorooctane 83.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.7 % 63.6-154

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: MT-2-6 (H301631-12)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8	
Toluene*	<0.050	0.050	07/16/2013	ND	2.18	109	2.00	14.6	
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2	
Total Xylenes*	<0.150	0.150	07/16/2013	ND	6.53	109	6.00	13.9	
Total BTEX	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	


Surrogate: 1-Chlorooctane 91.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.2 % 63.6-154

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**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.

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Mike Snyder, Organic Supervisor





**ARDINAL LABORATORIES**  
101 East Marland, Hobbs, NM 88240

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

**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

Page 15 of 15

Project Manager: Amber Cannon

Project Name: Martha AIK Federal #1 (Tin Horn)

Company Name: Yates Petroleum Corporation

Project #: 30-015-26549

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 103-2020

Telephone No: 575-748-4111 or 575-513-8799

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)  
ORDER #: H301631

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For:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				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Special Instructions:

TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.

Laboratory Comments:

Sample Containers in Matrix? ☒ N  
VOCs Free of Headspace? ☒ N  
Labels on container(s)? ☒ N  
Custody seals on container(s)? ☒ N  
Custody seals on cooler(s)? ☒ N  
Sample Hand Delivered ☒ N  
by Sampler/Client Rep.? ☒ N  
by Courier? ☐ UPS ☐ DHL ☐ FedEx ☐ Lone Star  
Temperature Upon Receipt: 16 °C

Relinquished by:	Date	Time	Received by:	Date	Time
<u>Amber Cannon</u>	<u>7/12/13</u>		<u>Jodi Benson</u>	<u>7/12/13</u>	<u>10:45</u>
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: ELOT:	Date	Time

## **Bratcher, Mike, EMNRD**

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**From:** Amber Cannon <ACannon@yatespetroleum.com>  
**Sent:** Wednesday, July 24, 2013 9:32 AM  
**To:** Jennifer Van Curen; Jim Amos  
**Cc:** Bob Asher; Katie Parker; Bratcher, Mike, EMNRD; Miriam Morales  
**Subject:** Martha AIK Federal #1 Tin Horn Release 6/7/2013  
**Attachments:** MarthaAIKFederal1TH\_Workplan.pdf  
  
**Importance:** High

Jennifer,

Please find attached a scope of work, site diagram and analytical results for the Martha AIK Federal #1 tin horn release that occurred on 6/7/2013.

Your quick response is greatly appreciated so that Yates Petroleum can begin work.

Thank you,

**Amber Cannon**

Environmental Regulatory Agent  
Yates Petroleum Corporation  
Office: (575) 748-4111  
Cell: (575) 513-8799

**Bratcher, Mike, EMNRD**

---

**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Wednesday, July 24, 2013 2:19 PM  
**To:** Amber Cannon  
**Cc:** Jim Amos; Bob Asher; Katie Parker; Bratcher, Mike, EMNRD; Miriam Morales  
**Subject:** Re: Martha AIK Federal #1 Tin Horn Release 6/7/2013

Amber,

I have looked over the plan that was sent in. With the type of soils that are in the area, there will need to be 3' removed from section 1 and 2' removed from section 2. When you finish with removal of contaminants, please contact me, so I can complete verification for my inspection.  
Please plan ahead on your completion, so I will have a 24 hr period to adjust my schedule if need be. Same for the Martha 6 tin horn.  
As always, this plan will require like approval from the OCD.  
Thanks.

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

On Wed, Jul 24, 2013 at 1:54 PM, Van Curen, Jennifer <jvancure@blm.gov> wrote:  
Oh never mind on the first question. I see that is for the two behind the battery only.

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
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CELL - 575-361-0042  
FAX - 575-234-5927

On Wed, Jul 24, 2013 at 1:52 PM, Van Curen, Jennifer <jvancure@blm.gov> wrote:  
Is this not the one that you needed the extension on? Or are one of these for the Dolores tin horn. Also on the Dolores, there is a tank that looks like it has been leaking for some time now. Can we also get that tested and cleaned up at the same time? I was going to send out a letter, but if we can get it addressed at the same time, I will hold off.

Please get back asap. Thanks

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
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On Wed, Jul 24, 2013 at 9:32 AM, Amber Cannon <[ACannon@yatespetroleum.com](mailto:ACannon@yatespetroleum.com)> wrote:

Jennifer,

Please find attached a scope of work, site diagram and analytical results for the Martha AIK Federal #1 tin horn release that occurred on 6/7/2013.

Your quick response is greatly appreciated so that Yates Petroleum can begin work.

Thank you,

**Amber Cannon**

Environmental Regulatory Agent

Yates Petroleum Corporation

Office: (575) 748-4111

Cell: (575) 513-8799

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