

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

JOHN A. YATES
CHAIRMAN OF THE BOARD

JOHN A. YATES JR.
PRESIDENT

JOHN D. PERINI
EXECUTIVE V.P. OF MONETIZATION
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

August 26, 2014

Mr. Mike Bratcher
NMOCD District II
811 S. First St.
Artesia, NM 88210

Re: Julie #2 Battery
30-015-27047
Section 17, T19S-R25E
Eddy County, New Mexico

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 reports dated May 6, 2014 and May 23, 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 September 10, 2014.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

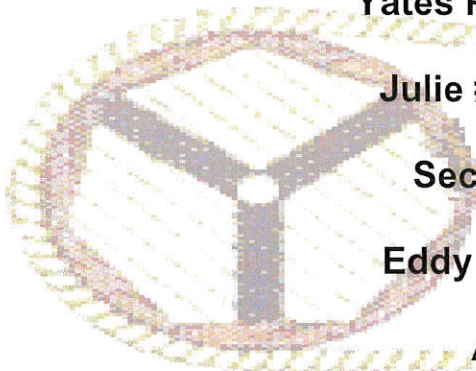
Yates Petroleum Corporation

Julie #2 Battery Work Plan

Section 17, T19S-R25E

Eddy County, New Mexico

August 26, 2014



I. Location

The Julie #2 Battery is located 13 miles south of Artesia on US 285, west approximately 7 miles on Rocking R Red Road, then approximately 1.5 miles northeast on the lease road.

II. Background

On May 6, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 4 B/O and 3 B/PW with 3 B/O and 2 B/PW recovered. Excavation of visually impacted soils was undertaken on the portion of the battery that was not lined. The total affected area was approximately 282 feet by 25 feet with approximately 1/3 of the release occurring on the lined portion of the battery. Initial delineation samples were taken in the S2 area (5/01/2014) and sent to a NMOCD approved laboratory (5/13/2014, results enclosed). Based on analytical results (5/13/2014), Yates did not sample in the S2 area again. Another release occurred in the S1 area prior to the initial delineation samples being taken. On May 23, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 25 B/O with 20 B/O recovered. Initial delineation samples were taken in the S1 area (6/05/2014) and sent to a NMOCD approved laboratory (6/12/2014, results enclosed). Based on analytical results (6/12/2014), Yates completed deeper, more extensive sampling to determine delineation of BTEX and TPH. Yates sampled again in the S1 area (6/20/2014 and 7/10/2014) and sent samples to a NMOCD approved laboratory (7/2/2014 and 7/14/2014, results enclosed). Since completing sampling, the tanks have been removed and a new lined battery has been constructed on the opposite (east) side of the location.

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 17, T19S-R25E) that depth to groundwater is approximately 105' 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 as following:

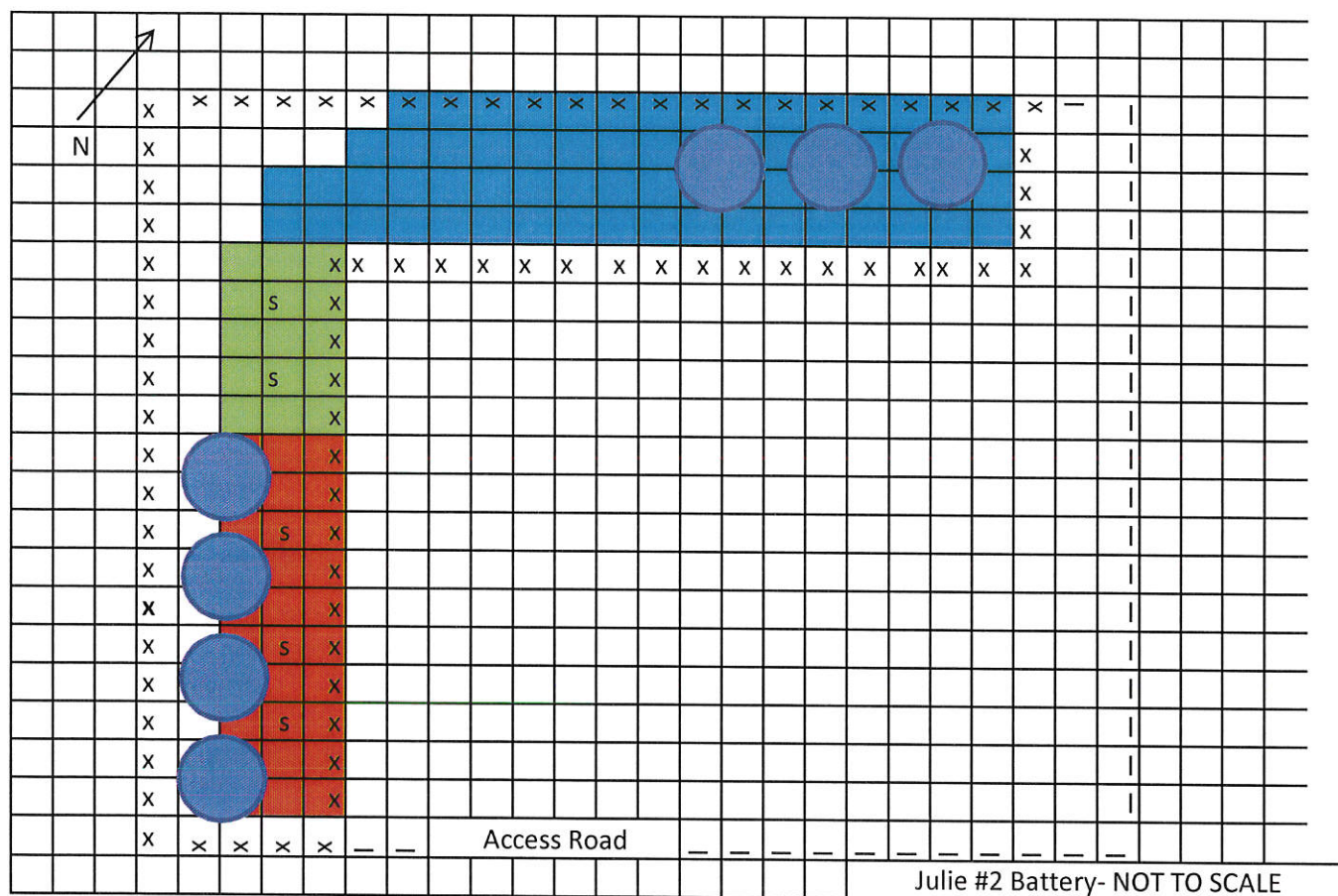
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

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

V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (105'), and a decrease in TPH and BTEX, Yates Petroleum Corporation will excavate impacted soils to a depth of ten (10) feet below the already excavated S1 sample release area and impacted soil will be hauled to a NMOCD approved facility. The excavated area will be backfilled with fourteen (14) feet of caliche until level with surrounding caliche of the pad. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) in the S2 sample area and at ten (10) feet in the S1 sample area, no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report, analytical results and a site sample diagram will be submitted to the NMOCD and request closure of the site.



 1st Release Area
 2nd Release Area
 S1 Sample Location
 S2 Sample Location
 Release on lined portion of battery

Analytical Report- H401390 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-1'	Release Area	5/1/2014	Backhoe	1'	<0.3	<10.0	33.2	224
S2-2'	Release Area	5/1/2014	Backhoe	2'	<0.3	<10.0	18	208
S2-3'	Release Area	5/1/2014	Backhoe	3'	<0.3	<10.0	<10.0	128
H401728								
S1-1'	Release Area	6/5/2014	Backhoe	1'	996	3580	5600	256
S1-2'	Release Area	6/5/2014	Backhoe	2'	1120	3990	5720	112
S1-3'	Release Area	6/5/2014	Backhoe	3'	880	3300	4710	80
S1-4'	Release Area	6/5/2014	Backhoe	4'	243	1040	1840	64
H401922								
S1-5'	Release Area	6/20/2014	Backhoe	5'	265	1500	3100	N/A
S1-6'	Release Area	6/20/2014	Backhoe	6'	307	1940	4420	N/A
S1-7'	Release Area	6/20/2014	Backhoe	7'	236	1490	3590	N/A
S1-8'	Release Area	6/20/2014	Backhoe	8'	212	1370	3250	N/A
H402105								
S1-9'	Release Area	7/10/2014	Backhoe	9'	58.1	208	910	N/A
S1-10'	Release Area	7/10/2014	Backhoe	10'	11.9	94.6	411	N/A
S1-11'	Release Area	7/10/2014	Backhoe	11'	<0.3	<10.0	31	N/A
S1-12'	Release Area	7/10/2014	Backhoe	12'	5.76	50.4	224	N/A

Site Ranking is Zero (0). DTGW >100' (approx 105', Section 17, T19S-R25E, Trend Map)

All results are ppm, Chlorides for documentation.

Released: 4 B/O, 3 B/PW; Recovered: 3 B/O, 2 B/PW Release Date: 4/23/2014

Released: 25 B/O; Recovered: 20 B/O Release Date: 5/16/2014

May 13, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: JULIE #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/07/14 13:30.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/07/2014
Reported: 05/13/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-1' (H401390-01)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTX	<0.300	0.300	05/12/2014	ND					

Surrogate: Dibromofluoromethane 99.2 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/13/2014	ND	400	100	400	3.92	

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	05/10/2014	ND	216	108	200	7.58	
DRO >C10-C28	33.2	10.0	05/10/2014	ND	237	118	200	7.16	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/07/2014
Reported: 05/13/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-2' (H401390-02)
BTEX 8260B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTEX	<0.300	0.300	05/12/2014	ND					

Surrogate: Dibromofluoromethane 97.9 % 61.3-142

Surrogate: Toluene-d8 99.7 % 71.3-129

Surrogate: 4-Bromofluorobenzene 98.2 % 65.7-141

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/13/2014	ND	400	100	400	3.92	

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	05/10/2014	ND	216	108	200	7.58	
DRO >C10-C28	18.0	10.0	05/10/2014	ND	237	118	200	7.16	

Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/07/2014
Reported: 05/13/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-3' (H401390-03)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTEX	<0.300	0.300	05/12/2014	ND					

Surrogate: Dibromofluoromethane 97.2 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 96.6 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/13/2014	ND	400	100	400	3.92	

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	05/10/2014	ND	216	108	200	7.58	
DRO >C10-C28	<10.0	10.0	05/10/2014	ND	237	118	200	7.16	

Surrogate: 1-Chlorooctane 118 % 65.2-140
Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Comp: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

e-mail: csettle@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Julie #2 Battery

Project #:

Project Loc: Julie #2 Battery

PO #: 205750

(lab use only)
ORDER #: H401390

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule)	Standard TAT	

Special Instructions:

Reinquired by:
Date: 5-7-14 Time: 11:30 AM
Received by:
Date: 5/7/14 Time: 1:35 PM
Received by:
Date: 5/7/14 Time: 1:35 PM
Received by:
Date: 5/7/14 Time: 1:35 PM

Reinquired by:
Date: 5-7-14 Time: 11:30 AM
Received by:
Date: 5/7/14 Time: 1:35 PM
Received by:
Date: 5/7/14 Time: 1:35 PM
Received by:
Date: 5/7/14 Time: 1:35 PM

Laboratory Comments:
Sample Containers Intact? ☒
VOCs Free of Headspace? ☒
Labels on container(s) ☒
Custody seals on container(s) ☒
Custody seals on cooler(s) ☒
Sample Hand Delivered by Sampler/Client Rep.? ☒
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 4.8 °C

June 12, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: JULIE #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/06/14 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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2014
Reported: 06/12/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1 - 1' (H401728-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	119	5.00	06/11/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	413	5.00	06/11/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	200	5.00	06/11/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	264	15.0	06/11/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	996	30.0	06/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	256	16.0	06/12/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3580	50.0	06/12/2014	ND	202	101	200	3.93	
DRO >C10-C28	5600	50.0	06/12/2014	ND	205	103	200	10.0	

Surrogate: 1-Chlorooctane 149 % 65.2-140

Surrogate: 1-Chlorooctadecane 157 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2014
Reported: 06/12/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1 - 2' (H401728-02)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	146	5.00	06/11/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	467	5.00	06/11/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	229	5.00	06/11/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	280	15.0	06/11/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	1120	30.0	06/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	112	16.0	06/12/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3990	50.0	06/12/2014	ND	202	101	200	3.93		
DRO >C10-C28	5720	50.0	06/12/2014	ND	205	103	200	10.0		

Surrogate: 1-Chlorooctane 220 % 65.2-140

Surrogate: 1-Chlorooctadecane 158 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2014
Reported: 06/12/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1 - 3' (H401728-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	103	5.00	06/11/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	361	5.00	06/11/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	187	5.00	06/11/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	230	15.0	06/11/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	880	30.0	06/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	80.0	16.0	06/12/2014	ND	416	104	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	3300	50.0	06/12/2014	ND	202	101	200	3.93	
DRO >C10-C28	4710	50.0	06/12/2014	ND	205	103	200	10.0	

Surrogate: 1-Chlorooctane 242 % 65.2-140

Surrogate: 1-Chlorooctadecane 257 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2014
Reported: 06/12/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1 - 4' (H401728-04)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	19.3	0.500	06/11/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	89.3	0.500	06/11/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	57.6	0.500	06/11/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	77.1	1.50	06/11/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	243	3.00	06/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 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	64.0	16.0	06/12/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1040	50.0	06/12/2014	ND	202	101	200	3.93	
DRO >C10-C28	1840	50.0	06/12/2014	ND	205	103	200	10.0	

Surrogate: 1-Chlorooctane 211 % 65.2-140

Surrogate: 1-Chlorooctadecane 205 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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.
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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Celey D. Keene, Lab Director/Quality Manager



— C



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

July 02, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: JULIE #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/25/14 16:14.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/25/2014
Reported: 07/02/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-5' (H401922-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.7	1.00	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	98.8	1.00	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	63.5	1.00	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	84.4	3.00	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTX	265	6.00	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1500	50.0	06/27/2014	ND	186	92.9	200	0.812	
DRO >C10-C28	3100	50.0	06/27/2014	ND	203	102	200	3.12	

Surrogate: 1-Chlorooctane 91.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/25/2014
Reported: 07/02/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-6' (H401922-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	22.7	1.00	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	115	1.00	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	71.3	1.00	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	97.8	3.00	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	307	6.00	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1940	50.0	06/27/2014	ND	186	92.9	200	0.812	
DRO >C10-C28	4420	50.0	06/27/2014	ND	203	102	200	3.12	

Surrogate: 1-Chlorooctane 98.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 140 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/25/2014
Reported: 07/02/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-7' (H401922-03)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	15.7	1.00	06/28/2014	ND	1.70	84.8	2.00	8.67		
Toluene*	86.6	1.00	06/28/2014	ND	1.77	88.5	2.00	8.91		
Ethylbenzene*	56.5	1.00	06/28/2014	ND	1.56	78.2	2.00	8.01		
Total Xylenes*	77.4	3.00	06/28/2014	ND	4.86	80.9	6.00	7.21		
Total BTEX	236	6.00	06/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1490	50.0	06/27/2014	ND	186	92.9	200	0.812	
DRO >C10-C28	3590	50.0	06/27/2014	ND	203	102	200	3.12	

Surrogate: 1-Chlorooctane 97.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 134 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/25/2014
Reported: 07/02/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-8' (H401922-04)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	13.8	1.00	06/28/2014	ND	1.70	84.8	2.00	8.67		
Toluene*	76.0	1.00	06/28/2014	ND	1.77	88.5	2.00	8.91		
Ethylbenzene*	51.8	1.00	06/28/2014	ND	1.56	78.2	2.00	8.01		
Total Xylenes*	70.6	3.00	06/28/2014	ND	4.86	80.9	6.00	7.21		
Total BTEX	212	6.00	06/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1370	50.0	06/27/2014	ND	186	92.9	200	0.812	
DRO >C10-C28	3250	50.0	06/27/2014	ND	203	102	200	3.12	

Surrogate: 1-Chlorooctane 92.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature: [Signature]

e-mail: csettle@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205750

Project Name: Julie #2 Battery

Project #: [Redacted]

Project Loc: Julie #2 Battery

(lab use only)

ORDER #: H401922

LAB # (lab use only)	
FIELD CODE	
Beginning Depth	
Ending Depth	
Date Sampled	
Time Sampled	
Field Filtered	
Total #. of Containers	
Ice	
HNO ₃	
HCl	
H ₂ SO ₄	
NaOH	
Na ₂ S ₂ O ₃	
None	
Other (Specify)	
DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	
TPH: 418.1 8015M 8015B	
TPH: TX 1005 TX 1006	
Cations (Ca, Mg, Na, K)	
Anions (Cl, SO ₄ , Alkalinity)	
SAR / ESP / CEC	
Metals: As Ag Ba Cd Cr Pb Hg S	
Volatiles	
Semivolatiles	
BTEX 8021B/5030 or BTEX 8260	
RCI	
N.O.R.M.	
Chlorides	
SAR	
RUSH TAT (Pre-Schedule) 24	
Standard TAT	

Preservation & # of Containers

Matrix

TCAP	ANALYZE FOR:
TOTAL:	

Special Instructions:

[Redacted Special Instructions]

Laboratory Comments:
Sample Containers Intact? ☒
VOCs Free of Headspace? ☒
Labels on container(s) ☒
Custody seals on container(s) ☒
Sample Hand Delivered by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star ☒
Temperature Upon Receipt: 60 °C

Relinquished by: <u>[Signature]</u>	Date: <u>6-25-14</u>	Time: <u>11:38 am</u>	Received by: <u>[Signature]</u>	Date: <u>6/25</u>	Time: <u>11:44</u>
Relinquished by: <u>[Signature]</u>	Date: <u>6/25</u>	Time: <u>4:14</u>	Received by: <u>[Signature]</u>	Date: <u>6/25</u>	Time: <u>4:14</u>
Relinquished by: <u>[Signature]</u>	Date: <u>6/25</u>	Time: <u>4:14</u>	Received by: <u>[Signature]</u>	Date: <u>6/25</u>	Time: <u>4:14</u>



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

July 14, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: JULIE #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/11/14 10:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/11/2014
Reported: 07/14/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1-9' (H402105-01)

BTEX 8021B		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.37	0.200	07/12/2014	ND	1.58	79.0	2.00	17.6	
Toluene*	15.3	0.200	07/12/2014	ND	1.58	79.0	2.00	17.8	
Ethylbenzene*	14.9	0.200	07/12/2014	ND	1.58	79.1	2.00	18.4	
Total Xylenes*	25.6	0.600	07/12/2014	ND	4.80	80.0	6.00	18.2	
Total BTEX	58.1	1.20	07/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 153 % 89.4-126

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	208	10.0	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	910	10.0	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/11/2014
Reported: 07/14/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1-10' (H402105-02)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.561	0.100	07/12/2014	ND	1.58	79.0	2.00	17.6	
Toluene*	3.09	0.100	07/12/2014	ND	1.58	79.0	2.00	17.8	
Ethylbenzene*	3.31	0.100	07/12/2014	ND	1.58	79.1	2.00	18.4	
Total Xylenes*	4.98	0.300	07/12/2014	ND	4.80	80.0	6.00	18.2	
Total BTX	11.9	0.600	07/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	94.6	10.0	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	411	10.0	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 99.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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

 Received: 07/11/2014
 Reported: 07/14/2014
 Project Name: JULIE #2 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S1-11' (H402105-03)
BTEX 8021B

mg/kg

Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.6	
Toluene*	0.080	0.050	07/12/2014	ND	1.58	79.0	2.00	17.8	
Ethylbenzene*	0.057	0.050	07/12/2014	ND	1.58	79.1	2.00	18.4	
Total Xylenes*	<0.150	0.150	07/12/2014	ND	4.80	80.0	6.00	18.2	
Total BTEX	<0.300	0.300	07/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

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	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	31.0	10.0	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 07/11/2014
Reported: 07/14/2014
Project Name: JULIE #2 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1-12' (H402105-04)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.161	0.050	07/12/2014	ND	1.58	79.0	2.00	17.6	
Toluene*	1.33	0.050	07/12/2014	ND	1.58	79.0	2.00	17.8	
Ethylbenzene*	1.69	0.050	07/12/2014	ND	1.58	79.1	2.00	18.4	
Total Xylenes*	2.58	0.150	07/12/2014	ND	4.80	80.0	6.00	18.2	
Total BTEx	5.76	0.300	07/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	50.4	10.0	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	224	10.0	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 95.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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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