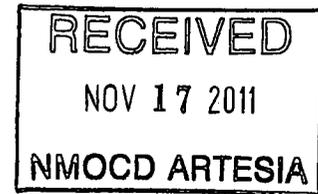


November 17, 2011



Mr. Mike Bratcher
Oil Conservation Division
Artesia, NM

Re: Rodke 'AOY' #1
30-015-28404
Section 21, T19S-R25E
Eddy County, New Mexico

Dear Mr. Bratcher:

Yates Petroleum Corp. would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 reports dated August 30, 2011; October 4, 2011; October 11, 2011.

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 November 28, 2011.

If you have any questions call me at 575-748-4311

Thank you.

Yates Petroleum Corporation

Jeremy Haass
Environmental Regulatory Agent

Enclosure(s):

Map to location
Analytical Report 427255
Analytical Report 427256
Analytical Report H102403

Yates Petroleum Corporation

Rodke 'AOY' #1 Work Plan

Section 21, T19S-R25E

Eddy County, New Mexico

November 17, 2011

I. Location

Go south of Artesia on Hwy 285 for approx. 13 miles. Turn west on Rock-N-R Red Ranch Rd. for approx. 5.3 miles turn south on lease road for ¼ of a mile, then turn east for 1/8 of a mile.

II. Background

There have been 3 separate releases from the same underground flow line coming from the Rodke 'AOY' #1. First release was on August 26, 2011 where 15 B/O were released of which 8 B/O were recovered. Second release was on September 29, 2011 where 8 B/O&PW were released of which 0 B/O&PW were recovered. Third release was on October 6, 2011 where 15 B/O&PW were released of which 5 B/O&PW were recovered. Yates submitted a C-141 on August 30, 2011; October 4, 2011; October 11, 2011 to the NMOCD District II office. Initial delineation samples were taken (9/7/11) & (11/4/11) and sent to an NMOCD approved laboratory (9/21/11 & 11/4/11 results enclosed).

III. Surface and Ground Water

Area surface geology is Cenozoic. The nearest Depth to Groundwater record listed on the New Mexico Office of the State Engineer (Section 22, T19S-R25E) shows depth of groundwater to be approximately 130 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:

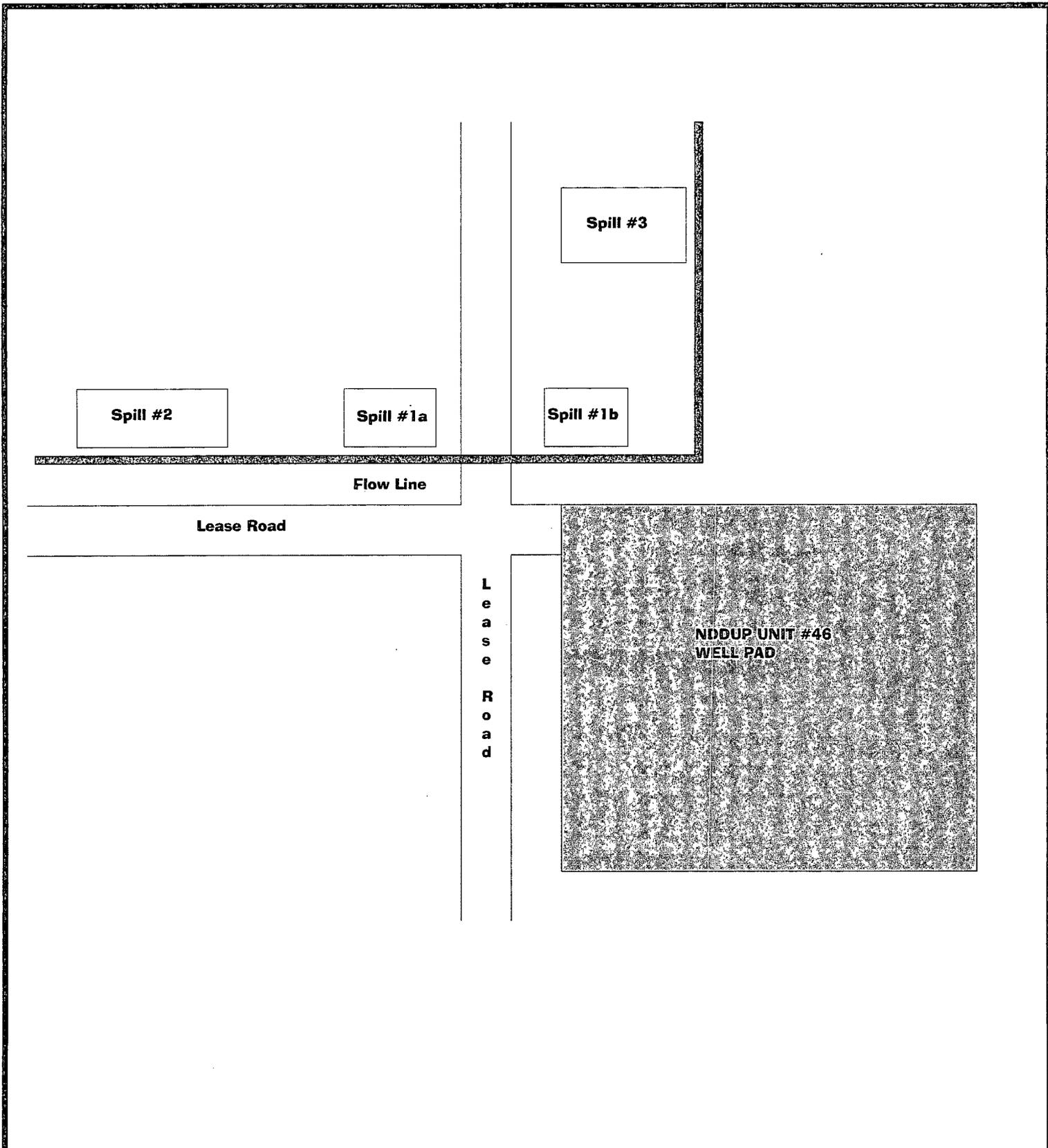
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

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

V. Scope of Work

Upon approval of this work plan and based on the enclosed analytical results, Yates Petroleum Corp. will have a contractor retrieve further samples at one foot intervals at the bottom of Spill #1a and test for Chloride delineation at 7', 8', and 9'. After receiving the new test results a determination will be made on whether or not to dig deeper and how much further we may need to go, impacted soils will be taken to an NMOCD approved facility for disposal. After the bottom of Spill #1a is dealt with and since the analytical results are within RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) Yates Petroleum Corporation will submit a C-141 Final Report, analytical results and request closure of the site.



Rodke 'AOY' #1 (Overview)

30-015-28404

Section 21, T19S-R25E

Eddy County, NM

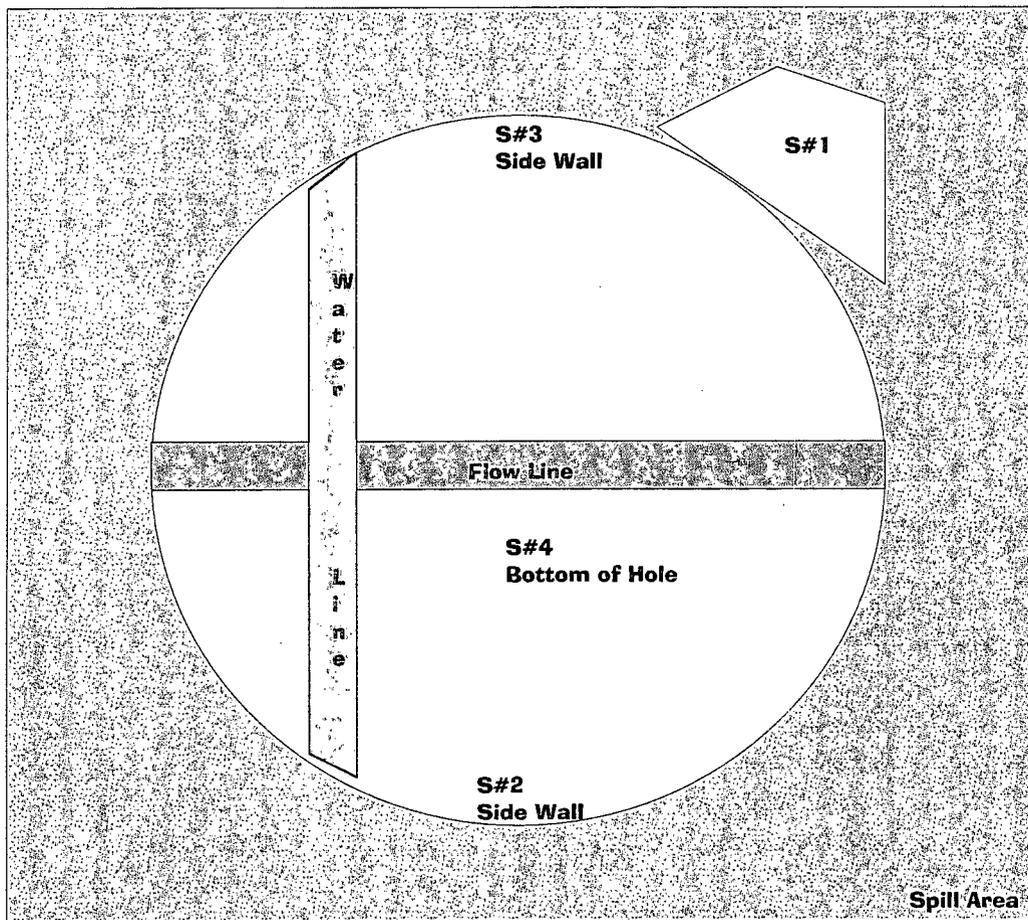
SAMPLE DIAGRAM(Not to Scale)

Prepared by Jeremy Haass
Environmental Regulatory Agent



Lease Road

Lease Road



Rodke 'AOY' #1 (Spill 1a)

30-015-28404

Section 21, T19S-R25E

Eddy County, NM

Xenco Laboratories #427255, 427256

Cardinal Laboratories #H102403

Prepared by Jeremy Haass
Environmental Regulatory Agent

Spill 1a

First Sampling

Analytical Report- 427255 & 427256	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #1	9/7/2011	1'	1.01	42.8	99.7	143	19100
Sample #2	9/7/2011	2'	0.0263	ND	ND	ND	20400
Sample #3	9/7/2011	2'	186	3780	17500	21300	18100
Sample #4	9/7/2011	4'	5.69	346	2240	2590	34300

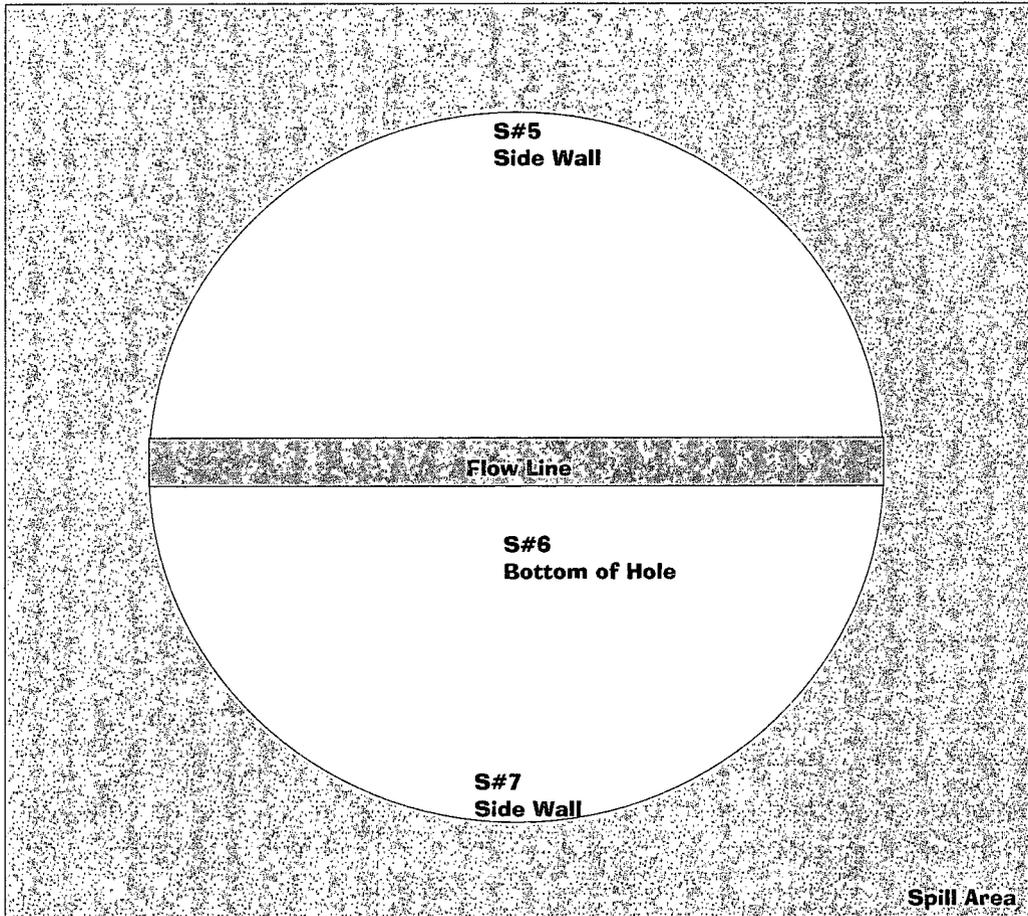
Second Sampling

Analytical Report- H102403	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #1	11/4/2011	6'	ND	ND	ND	ND	3640
Sample #2	11/4/2011	3'	ND	ND	ND	ND	3840
Sample #3	11/4/2011	3'	ND	16.2	468	484.2	2480
Sample #4	11/4/2011	6'	0.060	46.6	1340	1386.6	11700

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 130', per NMOSE).

All results are ppm.Chlorides for documentation. S# - **Sample Points**

Released: 15 B/O; Recovered: 8 B/O. Release Date: 8/26/2011



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Rodke 'AOY' #1 (Spill 1b)

30-015-28404

Section 21, T19S-R25E

Eddy County, NM

Xenco Laboratories #427255, 427256

Cardinal Laboratories #H102403

Prepared by Jeremy Haass
Environmental Regulatory Agent

Spill 1b

First Sampling

Analytical Report: 427255 & 427256	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #5	9/7/2011	2'	260	1600	5520	7120	14700
Sample #6	9/7/2011	5'	258	2860	6630	9490	6390
Sample #7	N/A						

Second Sampling

Analytical Report: H102403	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #5	11/4/2011	6'	ND	ND	56	56	192
Sample #6	11/4/2011	10'	ND	ND	117	117	208
Sample #7	11/4/2011	6'	0.419	ND	ND	ND	128

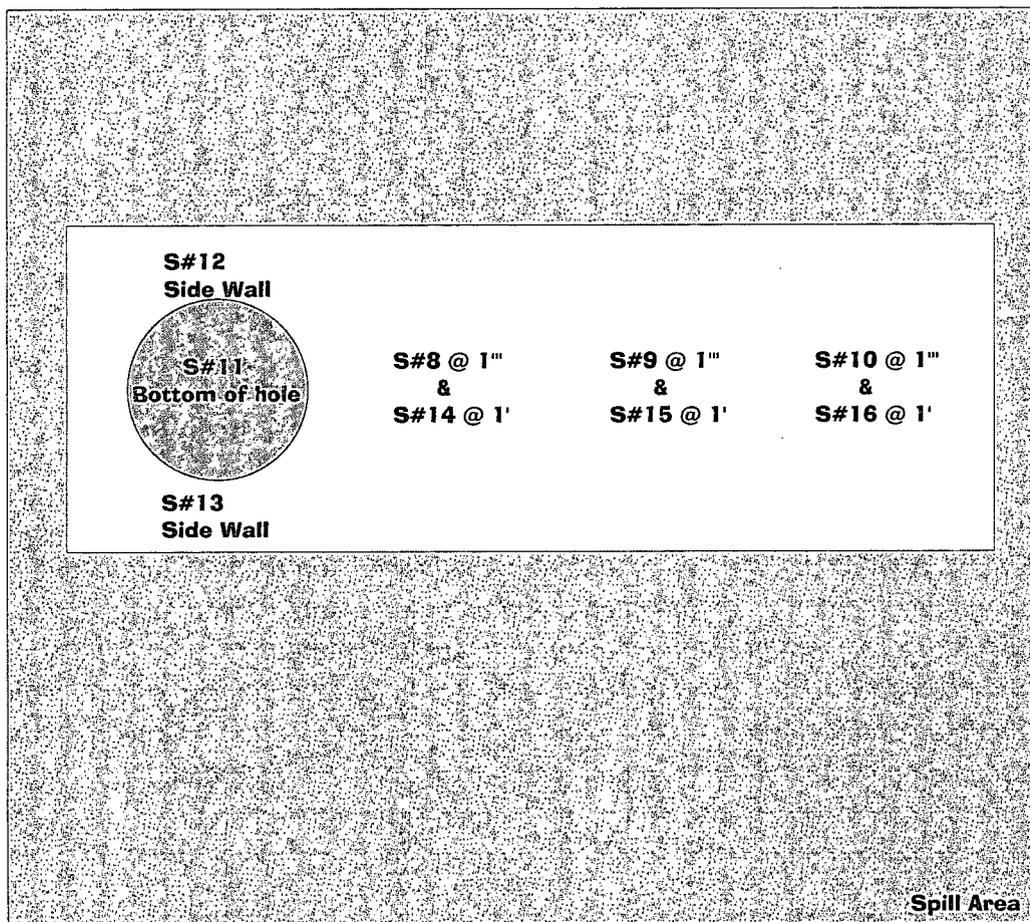
Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 130', per NMOSE).

All results are ppm.Chlorides for documentation. S# - **Sample Points**

Released: 15 B/O; Recovered: 8 B/O. Release Date: 8/26/2011



Lease Road



Rodke 'AOY' #1 (Spill 2)

30-015-28404

Section 21, T19S-R25E

Eddy County, NM

Cardinal Laboratories #H102403

Prepared by Jeremy Haass
Environmental Regulatory Agent

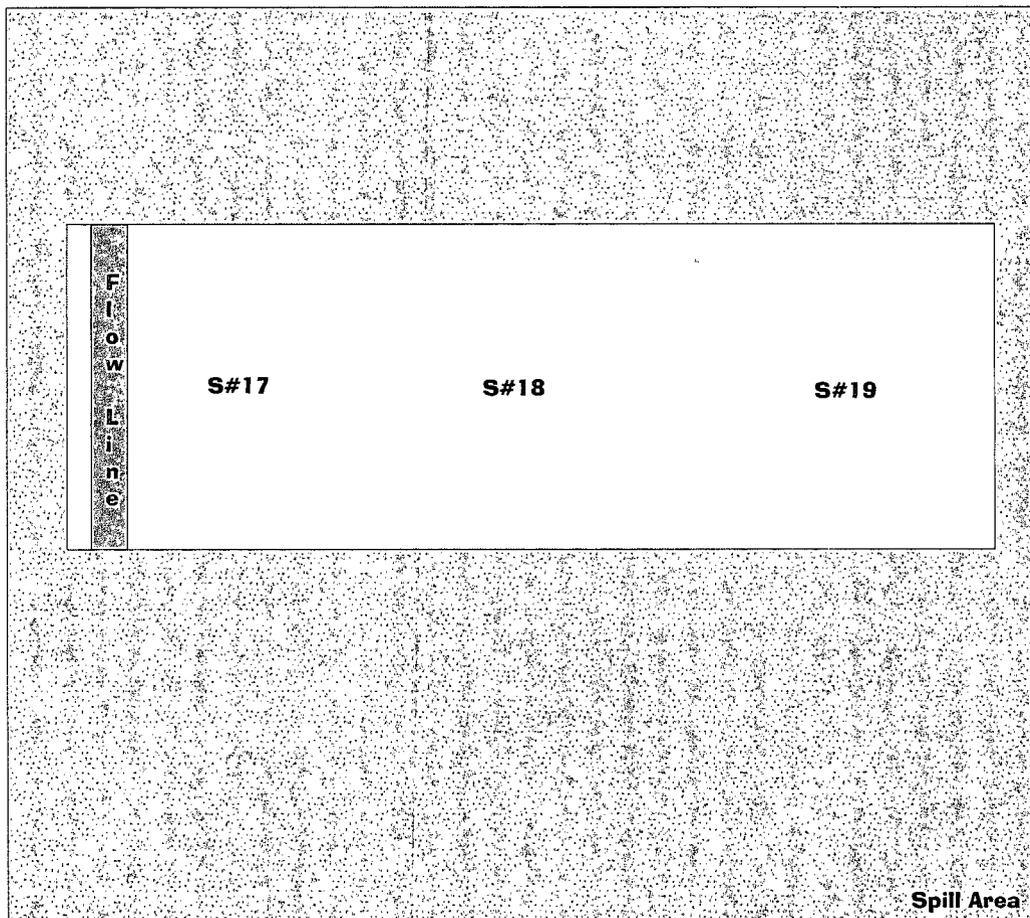
Spill 2

Analytical Report H102403	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #8	11/4/2011	1"	ND	ND	176	176	224
Sample #9	11/4/2011	1"	ND	ND	ND	ND	ND
Sample #10	11/4/2011	1"	0.154	ND	4820	4820	576
Sample #11	11/4/2011	5'	ND	ND	599	599	2080
Sample #12	11/4/2011	3'	ND	ND	ND	ND	208
Sample #13	11/4/2011	3'	ND	ND	ND	ND	320
Sample #14	11/4/2011	1'	ND	ND	ND	ND	112
Sample #15	11/4/2011	1'	ND	ND	10	10	160
Sample #16	11/4/2011	1'	ND	ND	104	104	64

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 130', per NMOSE).

All results are ppm. Chlorides for documentation. S# - **Sample Points**

Released: 8 B/O & PW; Recovered: 0 B/O & PW. Release Date: 9/29/2011



Rodke 'AOY' #1 (Spill 3)

30-015-28404

Section 21, T19S-R25E

Eddy County, NM

Cardinal Laboratories #H102403

Prepared by Jeremy Haass
Environmental Regulatory Agent

Spill 3

Analytical Report- H102403	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #17	11/4/2011	6'	ND	ND	ND	ND	2760
Sample #18	11/4/2011	3'	ND	ND	40.3	40.3	752
Sample #19	11/4/2011	1'	2.14	ND	237	237	112

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 130', per NMOSE).

All results are ppm.Chlorides for documentation. S# - **Sample Points**

Released: 8 B/O & PW; Recovered: 0 B/O & PW. Release Date: 9/29/2011

Analytical Report 427255

for Yates Petroleum Corporation

Project Manager: Jeremy Haass

Rodke 'AOY' # 1

30-015-28404

21-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

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Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



Certificate of Analysis Summary 427255

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-28404

Contact: Jeremy Haass

Project Location: Eddy

Project Name: Rodke 'AOY' # 1

Date Received in Lab: Thu Sep-08-11 10:15 am

Report Date: 21-SEP-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	427255-001	427255-002	427255-003	427255-004	427255-005	427255-006
	Field Id:	Sample # 1	Sample # 2	Sample # 3	Sample # 4	Sample # 5	Sample # 6
	Depth:	1-1 ft	2-2 ft	2-2 ft	4-4 ft	2-2 ft	5-5 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-07-11 10:20	Sep-07-11 10:34	Sep-07-11 10:48	Sep-07-11 11:00	Sep-07-11 11:11	Sep-07-11 11:18
BTEX by EPA 8021B	Extracted:	Sep-09-11 09:37					
	Analyzed:	Sep-09-11 20:01	Sep-09-11 17:43	Sep-09-11 20:47	Sep-09-11 22:18	Sep-09-11 23:27	Sep-10-11 00:12
	Units/RL:	mg/kg RL					
Benzene		0.0597 0.00602	0.00240 0.00119	1.65 0.230	0.0272 0.00586	1.99 0.230	9.03 0.287
Toluene		0.223 0.0120	0.00655 0.00238	36.0 0.461	0.623 0.0117	47.2 0.460	79.9 0.573
Ethylbenzene		0.278 0.00602	0.00668 0.00119	60.6 0.230	1.90 0.00586	86.4 0.230	73.6 0.287
m_p-Xylenes		0.312 0.0120	0.00730 0.00238	61.8 0.461	2.16 0.0117	88.2 0.460	69.2 0.573
o-Xylene		0.140 0.00602	0.00333 0.00119	25.8 0.230	0.977 0.00586	36.6 0.230	26.2 0.287
Total Xylenes		0.452 0.00602	0.0106 0.00119	87.6 0.230	3.14 0.00586	125 0.230	95.4 0.287
Total BTEX		1.01 0.00602	0.0263 0.00119	186 0.230	5.69 0.00586	260 0.230	258 0.287
Percent Moisture	Extracted:						
	Analyzed:	Sep-08-11 15:00					
	Units/RL:	% RL					
Percent Moisture		17.1 1.00	15.9 1.00	13.5 1.00	15.3 1.00	13.3 1.00	13.3 1.00
TPH By SW8015B Mod	Extracted:	Sep-12-11 13:05					
	Analyzed:	Sep-20-11 12:34	Sep-20-11 13:04	Sep-20-11 13:35	Sep-20-11 14:06	Sep-20-11 14:39	Sep-20-11 15:10
	Units/RL:	mg/kg RL					
C6-C10 Gasoline Range Hydrocarbons		42.8 18.0	ND 17.8	3780 86.5	346 88.4	1600 86.5	2860 86.2
C10-C28 Diesel Range Hydrocarbons		99.7 18.0	ND 17.8	17500 86.5	2240 88.4	5520 86.5	6630 86.2
Total TPH		143 18.0	ND 17.8	21300 86.5	2590 88.4	7120 86.5	9490 86.2

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi


Brent Barron II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Rodke 'AOY' # 1

Work Orders : 427255,

Project ID: 30-015-28404

Lab Batch #: 869693

Sample: 427255-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/09/11 17:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 869693

Sample: 427255-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/09/11 20:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0246	0.0300	82	80-120	

Lab Batch #: 869693

Sample: 427255-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/09/11 20:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0236	0.0300	79	80-120	**
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 869693

Sample: 427255-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/09/11 22:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0206	0.0300	69	80-120	**
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 869693

Sample: 427255-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/09/11 23:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0427	0.0300	142	80-120	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rodke 'AOY' # 1

Work Orders : 427255,

Project ID: 30-015-28404

Lab Batch #: 869693

Sample: 427255-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/10/11 00:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0239	0.0300	80	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 870524

Sample: 427255-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/20/11 12:34

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	132	99.6	133	70-135	
o-Terphenyl	60.3	49.8	121	70-135	

Lab Batch #: 870524

Sample: 427255-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/20/11 13:04

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	43.4	50.0	87	70-135	

Lab Batch #: 870524

Sample: 427255-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/20/11 13:35

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	281	99.8	282	70-135	**
o-Terphenyl	138	49.9	277	70-135	**

Lab Batch #: 870524

Sample: 427255-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/20/11 14:06

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.8	114	70-135	
o-Terphenyl	54.9	49.9	110	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rodke 'AOY' # 1

Work Orders : 427255,

Project ID: 30-015-28404

Lab Batch #: 870524

Sample: 427255-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/20/11 14:39

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	152	100	152	70-135	**
o-Terphenyl	56.5	50.0	113	70-135	

Lab Batch #: 870524

Sample: 427255-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/20/11 15:10

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	167	99.6	168	70-135	**
o-Terphenyl	59.5	49.8	119	70-135	

Lab Batch #: 869693

Sample: 611215-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/09/11 11:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 870524

Sample: 611252-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/20/11 12:04

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.7	102	70-135	
o-Terphenyl	44.7	49.9	90	70-135	

Lab Batch #: 869693

Sample: 611215-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/09/11 10:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rodke 'AOY' # 1

Work Orders : 427255,

Project ID: 30-015-28404

Lab Batch #: 870524

Sample: 611252-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/20/11 11:02

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	99.9	124	70-135	
o-Terphenyl	55.5	50.0	111	70-135	

Lab Batch #: 869693

Sample: 611215-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/09/11 10:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 870524

Sample: 611252-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/20/11 11:32

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	99.7	116	70-135	
o-Terphenyl	49.6	49.9	99	70-135	

Lab Batch #: 869693

Sample: 427255-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/09/11 18:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 870524

Sample: 427255-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/21/11 08:24

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	99.8	129	70-135	
o-Terphenyl	55.6	49.9	111	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rodke 'AOY' # 1

Work Orders : 427255,

Project ID: 30-015-28404

Lab Batch #: 869693

Sample: 427255-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/09/11 18:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

Lab Batch #: 870524

Sample: 427255-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/21/11 08:54

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	47.6	50.1	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Rodke 'AOY' # 1

Work Order #: 427255

Analyst: ASA

Date Prepared: 09/09/2011

Project ID: 30-015-28404

Date Analyzed: 09/09/2011

Lab Batch ID: 869693

Sample: 611215-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.101	101	0.100	0.112	112	10	70-130	35	
Toluene	<0.00200	0.100	0.0911	91	0.100	0.101	101	10	70-130	35	
Ethylbenzene	<0.00100	0.100	0.101	101	0.100	0.112	112	10	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.200	100	0.200	0.225	113	12	70-135	35	
o-Xylene	<0.00100	0.100	0.0929	93	0.100	0.104	104	11	71-133	35	

Analyst: BBH

Date Prepared: 09/12/2011

Date Analyzed: 09/20/2011

Lab Batch ID: 870524

Sample: 611252-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C10 Gasoline Range Hydrocarbons	<15.0	999	960	96	997	913	92	5	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	999	1000	100	997	899	90	11	70-135	35	

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Rodke 'AOY' # 1

Work Order #: 427255

Project ID: 30-015-28404

Lab Batch ID: 869693

QC- Sample ID: 427255-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 09/09/2011

Date Prepared: 09/09/2011

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.00240	0.119	0.107	88	0.118	0.107	89	0	70-130	35	
Toluene	0.00655	0.119	0.102	80	0.118	0.0990	78	3	70-130	35	
Ethylbenzene	0.00668	0.119	0.112	89	0.118	0.111	88	1	71-129	35	
m p-Xylenes	0.00730	0.239	0.217	88	0.237	0.212	86	2	70-135	35	
o-Xylene	0.00333	0.119	0.102	83	0.118	0.0978	80	4	71-133	35	

Lab Batch ID: 870524

QC- Sample ID: 427255-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 09/21/2011

Date Prepared: 09/12/2011

Analyst: BBH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	42.8	1200	1300	105	1210	1130	90	14	70-135	35	
C10-C28 Diesel Range Hydrocarbons	99.7	1200	1910	151	1210	1140	86	50	70-135	35	XF

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Rodke 'AOY' # 1

Work Order #: 427255

Lab Batch #: 869514

Project ID: 30-015-28404

Date Analyzed: 09/08/2011 15:00

Date Prepared: 09/08/2011

Analyst: BRB

QC- Sample ID: 427255-001 D

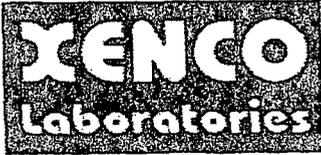
Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	17.1	17.1	0	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yatis
 Date/Time: 9/18/11 10:15
 Lab ID #: 427255 / 427256 (CC)
 Initials: BR

Sample Receipt Checklist

	Blue	Water	No	
1. Samples on ice?		<input checked="" type="radio"/>	<input type="radio"/>	
2. Shipping container in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3. Custody seals intact on shipping container (cooler) and bottles?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4. Chain of Custody present?	<input checked="" type="radio"/>	<input type="radio"/>		
5. Sample instructions complete on chain of custody?	<input checked="" type="radio"/>	<input type="radio"/>		
6. Any missing / extra samples?	<input type="radio"/>	<input checked="" type="radio"/>		
7. Chain of custody signed when relinquished / received?	<input checked="" type="radio"/>	<input type="radio"/>		
8. Chain of custody agrees with sample label(s)?	<input checked="" type="radio"/>	<input type="radio"/>		
9. Container labels legible and intact?	<input checked="" type="radio"/>	<input type="radio"/>		
10. Sample matrix / properties agree with chain of custody?	<input checked="" type="radio"/>	<input type="radio"/>		
11. Samples in proper container / bottle?	<input checked="" type="radio"/>	<input type="radio"/>		
12. Samples properly preserved?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
13. Sample container intact?	<input checked="" type="radio"/>	<input type="radio"/>		
14. Sufficient sample amount for indicated test(s)?	<input checked="" type="radio"/>	<input type="radio"/>		
15. All samples received within sufficient hold time?	<input checked="" type="radio"/>	<input type="radio"/>		
16. Subcontract of sample(s)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
17. VOC sample have zero head space?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 4.6 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - Initial and Backup Temperature confirm out of temperature conditions
 - Client understands and would like to proceed with analysis

Analytical Report 427256

for
Yates Petroleum Corporation

Project Manager: Jeremy Haass

Rodke 'AOY' # 1

30-015-28404

21-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

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Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



Certificate of Analysis Summary 427256

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-28404

Contact: Jeremy Haass

Project Location: Eddy

Project Name: Rodke 'AOY' # 1

Date Received in Lab: Thu Sep-08-11 10:15 am

Report Date: 21-SEP-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	427256-001	427256-002	427256-003	427256-004	427256-005	427256-006
	<i>Field Id:</i>	Sample # 1	Sample # 2	Sample # 3	Sample # 4	Sample # 5	Sample # 6
	<i>Depth:</i>	1-1 ft	2-2 ft	2-2 ft	4-4 ft	2-2 ft	5-5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-07-11 10:20	Sep-07-11 10:34	Sep-07-11 10:48	Sep-07-11 11:00	Sep-07-11 11:11	Sep-07-11 11:18
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Sep-11-11 19:03					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		19100 203	20400 499	18100 194	34300 992	14700 194	6390 96.9
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Sep-08-11 15:00					
	<i>Units/RL:</i>	% RL					
Percent Moisture		17.1 1.00	15.9 1.00	13.5 1.00	15.3 1.00	13.3 1.00	13.3 1.00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi


Brent Barron II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection
- PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation
- DL** Method Detection Limit
- NC** Non-Calculable
- + Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



BS / BSD Recoveries



Project Name: Rodke 'AOY' # 1

Work Order #: 427256

Analyst: BRB

Date Prepared: 09/11/2011

Project ID: 30-015-28404

Date Analyzed: 09/11/2011

Lab Batch ID: 869667

Sample: 869667-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Anions by E300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.840	20.0	21.9	110	20.0	21.9	110	0	75-125	20	

Relative Percent Difference RPD = $200 * (C - F) / (C + F)$
Blank Spike Recovery [D] = $100 * (C) / [B]$
Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Rodke 'AOY' # 1

Work Order #: 427256

Lab Batch #: 869667

Date Analyzed: 09/11/2011

Date Prepared: 09/11/2011

Project ID: 30-015-28404

Analyst: BRB

QC- Sample ID: 427256-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	19100	4830	24200	106	75-125	

Lab Batch #: 869667

Date Analyzed: 09/11/2011

Date Prepared: 09/11/2011

Analyst: BRB

QC- Sample ID: 427304-005 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	7.78	101	99.8	91	75-125	

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A)/B$
 Relative Percent Difference [E] = $200 \cdot (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Rodke 'AOY' # 1

Work Order #: 427256

Lab Batch #: 869667
Date Analyzed: 09/11/2011 19:03
QC- Sample ID: 427256-001 D
Reporting Units: mg/kg

Date Prepared: 09/11/2011
Batch #: 1

Project ID: 30-015-28404
Analyst: BRB
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	19100	18800	2	20	

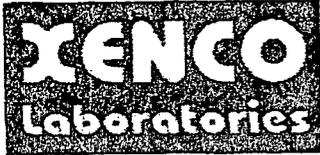
Lab Batch #: 869514
Date Analyzed: 09/08/2011 15:00
QC- Sample ID: 427255-001 D
Reporting Units: %

Date Prepared: 09/08/2011
Batch #: 1

Analyst: BRB
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	17.1	17.1	0	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: yatis
 Date/Time: 9/8/11 10:15
 Lab ID #: 427255 / 427256 (CL)
 Initials: LR

Sample Receipt Checklist

	Blue	Water	No	
1. Samples on ice?	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
2. Shipping container in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3. Custody seals intact on shipping container (cooler) and bottles?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4. Chain of Custody present?	<input checked="" type="radio"/>	<input type="radio"/>		
5. Sample instructions complete on chain of custody?	<input checked="" type="radio"/>	<input type="radio"/>		
6. Any missing / extra samples?	<input type="radio"/>	<input checked="" type="radio"/>		
7. Chain of custody signed when relinquished //received?	<input checked="" type="radio"/>	<input type="radio"/>		
8. Chain of custody agrees with sample label(s)?	<input checked="" type="radio"/>	<input type="radio"/>		
9. Container labels legible and intact?	<input checked="" type="radio"/>	<input type="radio"/>		
10. Sample matrix / properties agree with chain of custody?	<input checked="" type="radio"/>	<input type="radio"/>		
11. Samples in proper container / bottle?	<input checked="" type="radio"/>	<input type="radio"/>		
12. Samples properly preserved?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
13. Sample container intact?	<input checked="" type="radio"/>	<input type="radio"/>		
14. Sufficient sample amount for indicated test(s)?	<input checked="" type="radio"/>	<input type="radio"/>		
15. All samples received within sufficient hold time?	<input checked="" type="radio"/>	<input type="radio"/>		
16. Subcontract of sample(s)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
17. VOC sample have zero head space?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 4.6 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - Initial and Backup Temperature confirm out of temperature conditions
 - Client understands and would like to proceed with analysis

November 11, 2011

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: RODKE 'AOY' #1

Enclosed are the results of analyses for samples received by the laboratory on 11/07/11 13:55.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

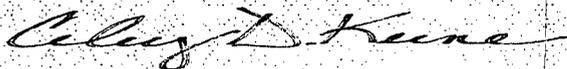
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (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 Energy Petroleum Corp
 JEREMY HAASS
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #1 - 6' (H102403-01)

BTEX 8021B			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

Surrogate: 4-Bromofluorobenzene (PIL) 92.0 % 64.4-134

Chloride, SM4500Cl-B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	11/09/2011	ND	448	112	400	0.00	

TPH 8015M			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03	

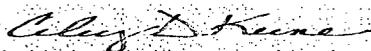
Surrogate: 1-Chlorooctane 81.3 % 55.5-154

Surrogate: 1-Chlorooctadecane 97.3 % 57.6-158

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #2 - 3' (H102403-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PII) 102 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	11/09/2011	ND	448	112	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	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03		

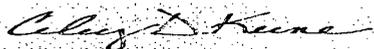
Surrogate: 1-Chlorooctane 89.4 % 55.5-154

Surrogate: 1-Chlorooctadecane 105 % 57.6-158

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*=Accredited Analyte

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

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #3 - 3' (H102403-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	11/09/2011	ND	448	112	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	16.2	10.0	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	468	10.0	11/10/2011	ND	173	86.5	200	6.03		

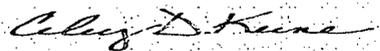
Surrogate: 1-Chlorooctane 102 % 55.5-154

Surrogate: 1-Chlorooctadecane 110 % 57.6-158

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*=Accredited Analyte

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 Artesia NM, 88210
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 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #4 - 6' (H102403-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	0.060	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PII) 105 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11700	16.0	11/09/2011	ND	448	112	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	46.6	10.0	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	1340	10.0	11/10/2011	ND	173	86.5	200	6.03		

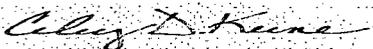
Surrogate: 1-Chlorooctane 93.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 104 % 57.6-158

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 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #5 - 6' (H102403-05)

BTEX 8021B mg/kg			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 64.4-134

Chloride, SM4500Cl-B mg/kg			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/09/2011	ND	448	112	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	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	56.0	10.0	11/10/2011	ND	173	86.5	200	6.03		

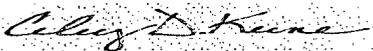
Surrogate: 1-Chlorooctane 87.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 102 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Yates Energy Petroleum Corp
 JEREMY HAASS
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #6 - 10' (H102403-06)

BTEX 8021B			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 64.4-134

Chloride, SM4500Cl-B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/09/2011	ND	448	112	400	0.00	

TPH 8015M			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	117	10.0	11/10/2011	ND	173	86.5	200	6.03	

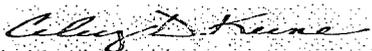
Surrogate: 1-Chlorooctane 102 % 55.5-154

Surrogate: 1-Chlorooctadecane 118 % 57.6-158

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 Fax To: (505) 748-4635

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #7 - 6' (H102403-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	0.176	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	0.243	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 64.4-134

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	11/09/2011	ND	448	112	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	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03		

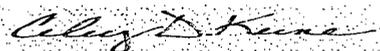
Surrogate: 1-Chlorooctane 97.4 % 55.5-154

Surrogate: 1-Chlorooctadecane 112 % 57.6-158

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 Fax To: (505) 748-4635

Received:	11/07/2011	Sampling Date:	11/04/2011
Reported:	11/11/2011	Sampling Type:	Soil
Project Name:	RODKE 'AOY' #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-28404	Sample Received By:	Celey D. Keene
Project Location:	EDDY		

Sample ID: SAMPLE #8 - 1" (H102403-08)

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 98.6 % 64.4-134

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	11/09/2011	ND	448	112	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	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	176	10.0	11/10/2011	ND	173	86.5	200	6.03		

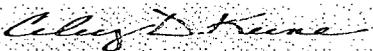
Surrogate: 1-Chlorooctane 99.7 % 55.5-154

Surrogate: 1-Chlorooctadecane 115 % 57.6-158

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*=Accredited Analyte

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 Fax To: (505) 748-4635

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #9 - 1" (H102403-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/09/2011	ND	448	112	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	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03		

Surrogate: 1-Chlorooctane 70.0 % 55.5-154

Surrogate: 1-Chlorooctadecane 82.6 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Yates Energy Petroleum Corp
 JEREMY HAASS
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	11/07/2011	Sampling Date:	11/04/2011
Reported:	11/11/2011	Sampling Type:	Soil
Project Name:	RODKE 'AOY' #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-28404	Sample Received By:	Celey D. Keene
Project Location:	EDDY		

Sample ID: SAMPLE #10 - 1" (H102403-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	0.154	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PII) 117 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	11/09/2011	ND	448	112	400	0.00		

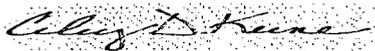
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	4820	100	11/10/2011	ND	173	86.5	200	6.03		

Surrogate: 1-Chlorooctane 79.5 % 55.5-154
Surrogate: 1-Chlorooctadecane 105 % 57.6-158

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 Fax To: (505) 748-4635

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #11 -5' (H102403-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	11/09/2011	ND	448	112	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	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	599	10.0	11/10/2011	ND	173	86.5	200	6.03		

Surrogate: 1-Chlorooctane 96.8 % 55.5-154

Surrogate: 1-Chlorooctadecane 114 % 57.6-158

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 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #12 - 3' (H102403-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134

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	11/09/2011	ND	448	112	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	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03		

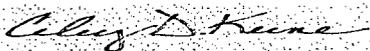
Surrogate: 1-Chlorooctane 93.7 % 55.5-154

Surrogate: 1-Chlorooctadecane 108 % 57.6-158

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Received:	11/07/2011	Sampling Date:	11/04/2011
Reported:	11/11/2011	Sampling Type:	Soil
Project Name:	RODKE 'AOY' #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-28404	Sample Received By:	Celey D. Keene
Project Location:	EDDY		

Sample ID: SAMPLE #13 - 3' (H102403-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/09/2011	ND	448	112	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	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03		

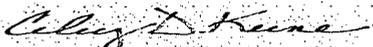
Surrogate: 1-Chlorooctane 91.2 % 55.5-154

Surrogate: 1-Chlorooctadecane 106 % 57.6-158

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 Fax To: (505) 748-4635

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #14 - 1' (H102403-14)

BTEX 8021B			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/09/2011	ND	448	112	400	0.00		

TPH 8015M			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83		
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03		

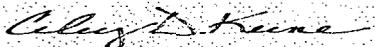
Surrogate: 1-Chlorooctane 88.5 % 55.5-154

Surrogate: 1-Chlorooctadecane 104 % 57.6-158

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 Fax To: (505) 748-4635

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #15 - 1' (H102403-15)

BTEX 8021B			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/09/2011	ND	448	112	400	0.00	

TPH 8015M			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.0	200	2.79	
DRO >C10-C28	10.0	10.0	11/10/2011	ND	215	107	200	2.04	

Surrogate: 1-Chlorooctane 108 % 55.5-154

Surrogate: 1-Chlorooctadecane 107 % 57.6-158

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 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #16 - 1' (H102403-16)

BTEX 8021B			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 99.3 % 64.4-134

Chloride, SM4500CI-B			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/09/2011	ND	448	112	400	0.00		

TPH 8015M			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.0	200	2.79		
DRO >C10-C28	104	10.0	11/10/2011	ND	215	107	200	2.04		

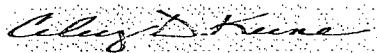
Surrogate: 1-Chlorooctane 107 % 55.5-154

Surrogate: 1-Chlorooctadecane 111 % 57.6-158

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 Fax To: (505) 748-4635

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #17 - 6' (H102403-17)

BTEX 8021B			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	11/09/2011	ND	448	112	400	0.00		

TPH 8015M			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.0	200	2.79		
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	215	107	200	2.04		

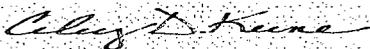
Surrogate: 1-Chlorooctane 108 % 55.5-154

Surrogate: 1-Chlorooctadecane 110 % 57.6-158

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 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #18 - 3' (H102403-18)

BTEX 8021B mg/kg			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09		
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 64.4-134

Chloride, SM4500CI-B mg/kg			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	11/09/2011	ND	448	112	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	11/10/2011	ND	174	87.0	200	2.79		
DRO >C10-C28	40.3	10.0	11/10/2011	ND	215	107	200	2.04		

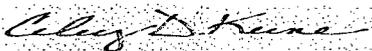
Surrogate: 1-Chlorooctane 102 % 55.5-154

Surrogate: 1-Chlorooctadecane 104 % 57.6-158

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Yates Energy Petroleum Corp
 JEREMY HAASS
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 11/07/2011
 Reported: 11/11/2011
 Project Name: RODKE 'AOY' #1
 Project Number: 30-015-28404
 Project Location: EDDY

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SAMPLE #19 - 1' (H102403-19)

BTEX 8021B			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/09/2011	ND	2.10	105	2.00	9.09		
Toluene*	0.080	0.050	11/09/2011	ND	2.02	101	2.00	10.6		
Ethylbenzene*	0.723	0.050	11/09/2011	ND	2.33	117	2.00	11.5		
Total Xylenes*	1.34	0.150	11/09/2011	ND	6.70	112	6.00	11.6		

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 64.4-134

Chloride, SM4500Cl-B			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/09/2011	ND	448	112	400	0.00		

TPH 8015M			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.0	200	2.79		
DRO >C10-C28	237	10.0	11/10/2011	ND	215	107	200	2.04		

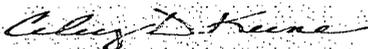
Surrogate: 1-Chlorooctane 92.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 98.3 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

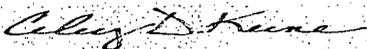
Notes and Definitions

- 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

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Celey D. Keene, Lab Director/Quality Manager

