

Rec'd 5/27/09

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Hondo Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2001

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

ALLB0631953733		OPERATOR		<input type="checkbox"/> Initial Report	<input checked="" type="checkbox"/> Final Report
Name of Company Yates Energy Corp. 625542		Contact Sheryl L. Jones			
Address P. O. Box 2323, Roswell, NM 88202		Telephone No. 432-683-5511			
Facility Name Yates State Battery 30-015-21622		Facility Type Tank Battery			
Surface Owner Jimmy Richardson		Mineral Owner State		Lease No. E-2211	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
11	32	18S	30E	1980	North	990	East	Hddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil spill at tank battery	Volume of Release 74 BO 44 BW	Volume Recovered Navajo rec. 50 bbls
Source of Release Tank	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCED and voice mail reception/Aztec and Pat Cooper/Hobbs District	
By Whom? Sheryl L. Jones	Date and Hour 1:00 PM Texas Time 8-28-06	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Leak from Tank Bottom at tank battery. At the time of spill a vacuum truck was called and 50 barrels of oil recovered. The spill was covered with fresh dirt awaiting removal of tanks and remedial action to take place

Describe Area Affected and Cleanup Action Taken.*

Leak from Tank Bottom at tank battery. Oil did trickle out of the fire wall about 50'. Removed tanks from tank battery. (see report for how deep contaminated soil was dug and hauled) (analytical reports and pictures are also attached).

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCED rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCED marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCED acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>James F. O'Brien</i>		OIL CONSERVATION DIVISION	
Printed Name: James F. O'Brien		Approved by District Supervisor Signed By: <i>Sheryl L. Jones</i>	
Title: Agent for Yates Energy Corporation		Approval Date: MAY 27 2009	Expiration Date: N/A
E-mail Address: sjones4011@aol.com		Conditions of Approval: N/A	Attached: <input type="checkbox"/>
Date: 05-14-09 Phone: 432-683-5511			

* Attach Additional Sheets If Necessary

MAY 26 2009

O'Briant & Associates, Inc.

P. O. Box 10487 Midland, TX, 79702
(432) 683-5511 (24 Hr. Ans), (432) 683-5903 (Fax)

Mr. Mike Bratcher

E-Mail: obriantassoc@sbcglobal.net

NMOCD

1301 West Grand Avenue
Artesia, New Mexico 88210

YATES ENERGY CORP.
YATES STATE 006 BATTERY CLEAN-UP
API #30-015-21622
LOV #0219107
Tracking #nLLB0631953733

Dear Mr. Bratcher:

The following items are enclosed as follow-up to your e-mail dated 5/13/09.

C-141 checked for final closure.

Analytical documentation

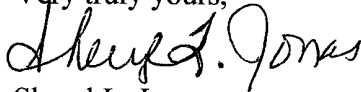
Daily reports from job.

I do not have a closure report from the environmental company.

Jim O'Briant will broadcast BLM seed mixture number 2 the week of May 25, 2009.

If further documentation is required please contact this office.

Very truly yours,



Sheryl L. Jonas

Sjonas4011@aol.com

5/15/09

Yates Energy Corp.
Location: Eddy Co., NM
Elev. r

Yates State Lease

Page: 5

Operator No:
API No:

----- Environmental Work to bring lease into State Compliance -----

8/3/2007

Check tank battery & well locations. (May need to move tank battery).

8/6/2007

8:15 AM 3:00 PM Backhoe & 2 man Roustabout crew on location.
Remove fence @ tank battery.
Move retaining wall around water tank.
Dig out dirt around water tank. Place contaminated dirt on plastic.

4:00 PM 6:00 PM Tank cleaning crew & Vacuum Truck on location.
Clean out water tank
Drain "Gun-Barrel"
Pull water off oil tank.
(Pumper recalled a leak in oil tank in April, 2006 and also a leak in water, but no time period).

8/7/2007

8:30 AM 10:30 AM Backhoe & 2 man Roustabout crew on location. Winch Truck & 2 man crew on location to pick up tank.
Disconnect Fiber-glass Water Tank & move off location. (Give tank to George Kenemore).
Pick up contaminated dirt around water tank & put on plastic.
Re-build fence around tank battery.
Shut down & wait on AFE to finish clean up work.

O'Briant & Associates, Inc.

**YATES ENERGY CORPORATION
YATES STATE ENVIRONMENTAL CLEAN-UP
LEA COUNTY, NEW MEXICO**

- 11/2/07:** Digging Samples (21 samples).
Check Artesia Aeration land farm.
Daily Cost: \$ 2625 Cum: \$ 2625
- 11/3/07:** Mapping sample location; delivered samples to XENCO Lab for analysis.
Daily Cost: \$ 280 Cum: \$ 2905
- 11/5/07:** Phoenix Environmental loaded, hauled and disposed for approximately
580 cu. yds. (Material dug while removing tank battery)
Daily Cost: \$ 18,975 Cum: \$ 21,880
- 11/6/07:** Phoenix dug approximately 300 cu. yds. (About 25' X 30' X net 12').

Daily cost added when available.
- 11/7/07:** Phoenix dug approximately 800 cubic Yards today. Total accumulation on
site ready to be hauled app. 1100 cubic yards.
The hole is now about 88' X 72' and varies in depth from 2' to 19'

Daily cost added when available
- 11/8/07:** Phoenix dug approximately 100 cubic Yards today. Total accumulation on
site ready to be hauled app. 1200 cubic yards.
The hole is now about 92 X 72' and varies in depth from 2' to 19'
Note: Shut down early – no gang available until app. 11.00 am Friday to
move old flow lines.

Background No. 1: N32 42.572', W103 59.441' Elev. 3400' GL
3:00 PM, 11/8/07, appears to be sand, no odor
100' @340 degrees from M#1
Witnessed by Ray Garcie & John Peñick, JFO

Daily cost added when available
- 11/9/07:** Took 13 samples; delivered to Cardinal Lab for analyses.
Gang did not show up; unable to move flow lines.

Daily cost added when available

YATES ENERGY CORPORATION

**YATES STATE ENVIRONMENTAL CLEAN-UP
LEA COUNTY, NEW MEXICO**

11/12/07: Dug out old flow lines at NW and SW corners.
Removed an additional 10 feet by apx 6 feet from west side (extends south wall and north wall apx. 10 feet to the west). Sampled NW and SW walls and bottoms

Daily cost added when available

11/19/07: Loaded and hauled apx. 560 cubic yards to land farm.

Daily cost added when available

11/20/07: Loaded and hauled apx. 200 cubic yards to land farm.
Repaired road and turn around.
Sampled SW and NW extensions; delivered to Cardinal Labs in Hobbs.

Daily cost added when available

YATES ENERGY CORP.
YATES STATE 006 BATTERY CLEAN-
API#30-015-21622 03109
LOV#0219107
Tracking #N11B0631953733

YATES ENERGY CORP.
YATES STATE 006 BATTERY CLEAN-UP
API#30-015-21622
LOV#0219107
Tracking #N11b0631953733

03/09

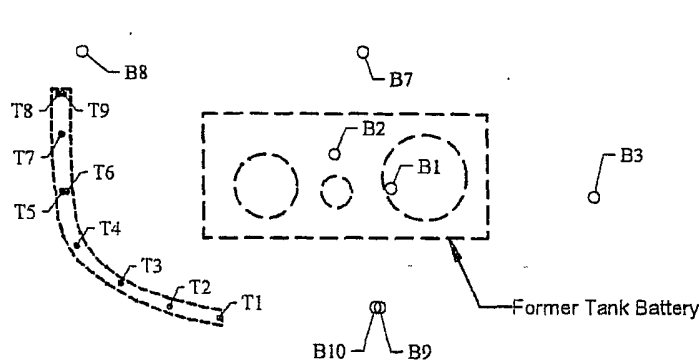
YATES ENERGY CORP.
YATES STATE 006 BATTERY CLEAN-UP
API#30-015-21622
LOV#0219107
Tracking #N11b0631953733

03/09

Yates Energy Corporation Yates State Lease Site Clean-up

Trenching Sample Map and Associated Analytical Results

YATES ENERGY CORP.
YATES STATE 006 BATTERY CLEAN-UP
API #30-015-21622
LOV #0219107
Tracking #nLLB0631953733



Trench Samples Collected on September 18, 2007

Sample #	Depth	GRO	DRO	TPH	CI
T1	2'	<11.6	<11.6	<11.6	1400
T2	2.5'	1690	8590	10280	170
T3	4'	<10.9	<10.9	<10.9	1020
T4	5'	<53.7	1507	1507	468
T5	4.5'	<10.6	61.6	61.6	277
T6	2.5'	<10.6	257	257	287
T7	3'	<54.0	450	450	234
T8	2'	<11.2	<11.2	<11.2	723
T9	3.5'	990	5596	6586	1450

Results above listed in mg/kg at specified depths (feet bgs)

Hand Auger Samples Collected on November 2, 2007

Borehole #	Sample #	Depth	GRO	DRO	TPH	CI
B1	BH-1A	7'	4960	11950	16910	213
	BH-1	9'	<18	21.2	21.2	1280
	BH-2	10'	117	394	511	1700
	BH-3	13'	<16.5	<16.5	<16.5	1190
B2	BH-4	7'	3690	9358	13048	170
	BH-5	13'	4080	9528	13608	2550
B3	BH-6	0'	92.2	828	920	63.8
	BH-7	3'	431	2930	3361	63.8
B4	BH-9	2'	<16.1	19.1	19.1	638
B5	BH-10	0'	<15.9	<15.9	<15.9	128
	BH-11	2'	<15.9	<15.9	<15.9	42.5
B6	BH-12	0'	17.5	201	219	42.5
	BH-13	2'	<15.7	22.6	22.6	63.8
B7	BH-14	0'	<15.7	46	46	1030
	BH-15	2'	<16.6	<16.6	<16.6	1740
B8	BH-16	0'	<15.2	<15.2	<15.2	42.5
	BH-17	2'	<15.2	<15.2	<15.2	106
B9	BH-18	0'	<15.4	75.1	75.1	42.5
B10	BH-19	2'	<15.8	160	160	85.1
B11	BH-20	0'	<15.1	<15.1	<15.1	42.5
	BH-21	2'	<15.1	29.7	29.7	95.7

Results above listed in mg/kg at specified depths (feet bgs)



YATES ENERGY CORP.
STATE LEASE
T-18-S, R-30-E, Section 32
EDDY COUNTY, NEW MEXICO

TRENCHING SAMPLE MAP



Sample Data Summary

p. 1 of 2

Project Name: Yates Energy Corporation; Yates State Lease
Project Location: Eddy County, New Mexico

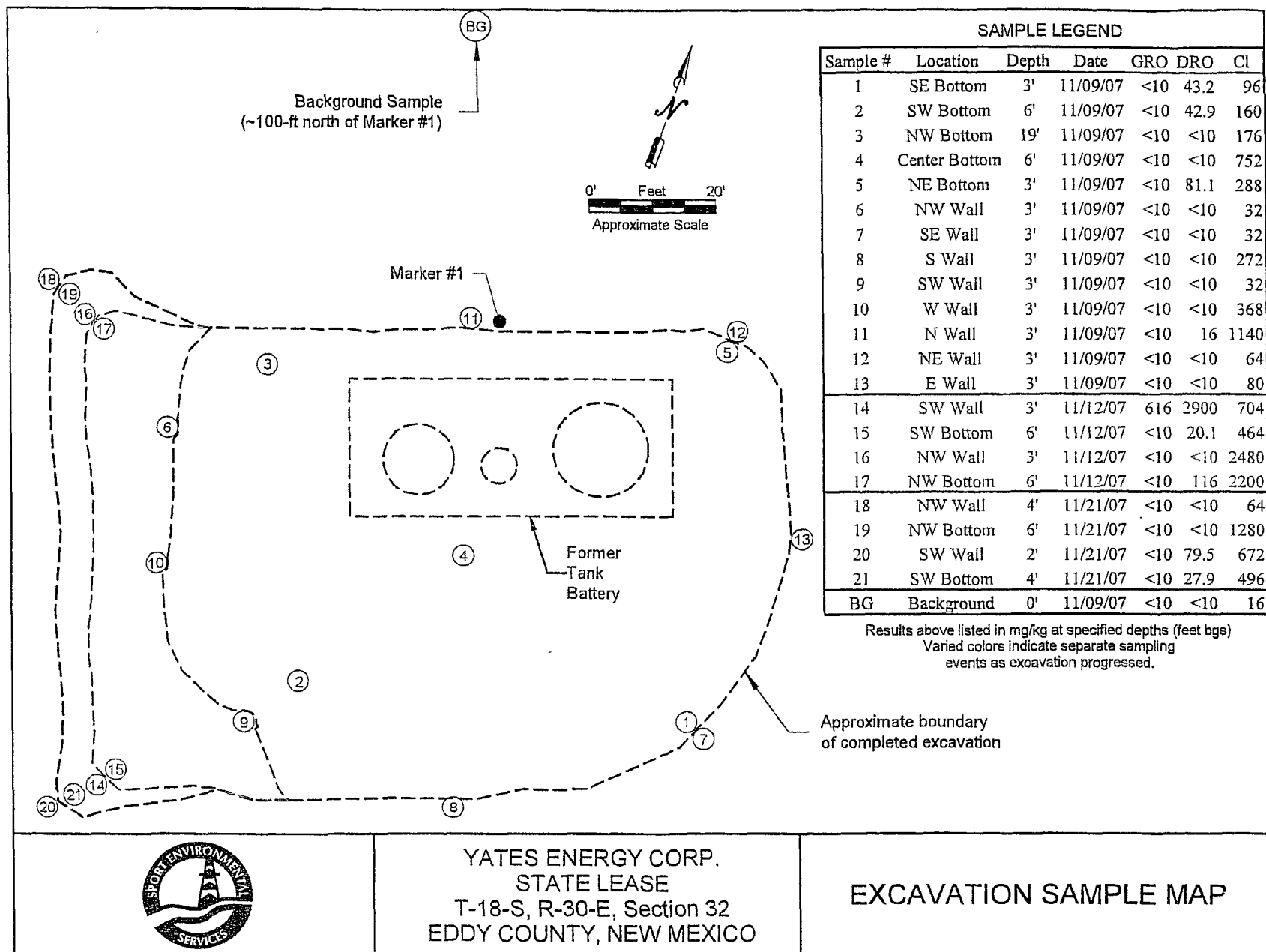
						Analytical Results										
						Methods: EPA 8015M (TPH), EPA 8021B (BTEX), SW 846 9253 (Cl)										
Sample ID	Lab ID	Matrix	Latitude/Longitude	Date Sampled	Date Received	Carbon Ranges C6-C12 (mg/kg dry)	Carbon Ranges C12-C28	Carbon Ranges C28-C35	Total Hydrocarbons	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)	Chloride (Cl) (mg/kg wet)	% Moisture
Borehole Sampling																
BH #1A	292422-001	Soil		11/2/2007 10:20	11/3/2007 11:41	4960	10700	1250	16910						213	19.0
BH #1	292422-002	Soil		11/2/2007 10:28	11/3/2007 11:41	ND	21.2	ND	21.2						1280	16.8
BH #2	292422-003	Soil		11/2/2007 10:31	11/3/2007 11:41	117	394	ND	511						1700	19.5
BH #3	292422-004	Soil		11/2/2007 10:48	11/3/2007 11:41	ND	ND	ND	ND						1190	9.05
BH #4	292422-005	Soil		11/2/2007 10:55	11/3/2007 11:41	3690	8390	968	13048						170	11.3
BH #5	292422-006	Soil		11/2/2007 11:10	11/3/2007 11:41	4080	8590	938	13608						2550	11.0
BH #6	292422-007	Soil		11/2/2007 11:22	11/3/2007 11:41	92.2	625	203	920.2						63.8	4.10
BH #7	292422-008	Soil		11/2/2007 11:30	11/3/2007 11:41	431	2560	370	3361						63.8	5.99
BH #8	Sample lost No reporting	Soil		11/2/2007 11:40	11/3/2007 11:41											
BH #9	292422-010	Soil		11/2/2007 11:45	11/3/2007 11:41	ND	19.1	ND	19.1						638	6.75
BH #10	292422-011	Soil		11/2/2007 11:55	11/3/2007 11:41	ND	ND	ND	ND						128	5.75
BH #11	292422-012	Soil		11/2/2007 12:01	11/3/2007 11:41	ND	ND	ND	ND						42.5	5.72
BH #12	292422-013	Soil		11/2/2007 12:10	11/3/2007 11:41	17.5	163	38.1	218.6						42.5	12.3

[illegible]

Yates Energy Corporation Yates State Lease Site Clean-up

Excavation Sample Map and Associated Analytical Results

YATES ENERGY CORP.
YATES STATE 006 BATTERY CLEAN-UP
API #30-015-21622
LOV #0219107
Tracking #nLLB0631953733



[illegible]



ANALYTICAL RESULTS FOR
YATES ENERGY CORPORATION
ATTN: JIM O'BRIANT
P.O. BOX 10487
MIDLAND, TX 79702
FAX TO: (432) 683-5903

Sampling Date: 11/20/07
Sample Type: SOIL
Sample Condition: INTACT
Sample Received By: BC
Analyzed By: CK/KS

LAB NUMBER	SAMPLE ID	GRO (C ₅ -C ₁₂) (mg/kg)	DRO (>C ₁₂ -C ₂₈) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		11/21/07	11/21/07	11/21/07
H13763-1	NW WALL 4' BGS	<10.0	<10.0	64
H13763-2	NW BOTTOM 6' BGS	<10.0	<10.0	1280
H13763-3	SW WALL 2' BGS	<10.0	79.5	672
H13763-4	SW BOTTOM 4' BGS	<10.0	27.9	496
Quality Control		459	393	500
True Value QC		500	500	500
% Recovery		91.8	78.6	100
Relative Percent Difference		10.6	2.0	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Std. Methods 4500-CFB
*Analyses performed on 1:4 w:v aqueous extracts.

Date _____

H13763TCL YATES ENRGY

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or any downstream recipients of the analyses.

[illegible]



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

ANALYTICAL RESULTS FOR
YATES ENERGY CORP.
ATTN: MIKE STUBBLEFIELD
P.O. BOX 10487
MIDLAND, TX 79702
FAX TO: (432) 683-5903

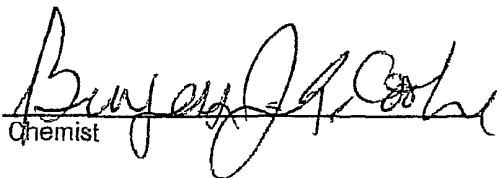
Receiving Date: 11/12/07
Reporting Date: 11/13/07
Project Number: NOT GIVEN
Project Name: YATES STATE LEASE
Project Location: NOT GIVEN

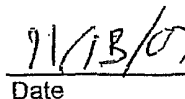
Sampling Date: 11/09/07 & 11/12/07
Sample Type: SOIL
Sample Condition: INTACT
Sample Received By: SB
Analyzed By: BC/KS

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		11/13/07	11/13/07	11/13/07
H13691-1	BACKGROUND	<10.0	<10.0	16
H13691-2	SW WALL (3')	616	2900	704
H13691-3	SW BOTTOM	<10.0	20.1	464
H13691-4	NW WALL (3')	<10.0	<10.0	2480
H13691-5	NW BOTTOM	<10.0	116	2200
Quality Control		756	768	500
True Value QC		800	800	500
% Recovery		94.5	96.0	100.0
Relative Percent Difference		0.1	1.3	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

*Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H13691 YATES

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Sample Data Summary

p. 1 of 1

Project Name: Yates Energy Corporation; Yates State Lease
Project Location: Eddy County, New Mexico

Analytical Results

Methods: EPA 8015M (TPH), EPA 8021B (BTEX), SW 846.9253 (Cl)

Sample ID	Lab ID	Matrix	Latitude/Longitude	Date Sampled	Date Received	Carbon Ranges C6-C12 (mg/kg dry)	Carbon Ranges C12-C28	Carbon Ranges C28-C35	Total Hydrocarbons	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)	Chloride (Cl) (mg/kg wet)	% Moisture
SE bottom 3' BGL	H13683-1	Soil		11/9/2007 13:20	11/9/2007 15:54	<10.0	43.2		43.2						96	
SW bottom 6' BGL	H13683-2	Soil		11/9/2007 13:15	11/9/2007 15:54	<10.0	42.9		42.9						160	
NW bottom 19' BGL	H13683-3	Soil		11/9/2007 12:30	11/9/2007 15:54	<10.0	<10.0		<10.0						176	
Center btm 6' BGL	H13683-4	Soil		11/9/2007 13:30	11/9/2007 15:54	<10.0	<10.0		<10.0						752	
NE bottom 3' BGL	H13683-5	Soil		11/9/2007 13:21	11/9/2007 15:54	<10.0	81.1		81.1						288	
NW wall 3'	H13683-6	Soil		11/9/2007 14:29	11/9/2007 15:54	<10.0	<10.0		<10.0						32	
SE wall 3'	H13683-7	Soil		11/9/2007 14:36	11/9/2007 15:54	<10.0	<10.0		<10.0						32	
S wall 3'	H13683-8	Soil		11/9/2007 14:23	11/9/2007 15:54	<10.0	<10.0		<10.0						272	
SW wall 3'	H13683-9	Soil		11/9/2007 14:27	11/9/2007 15:54	<10.0	<10.0		<10.0						32	
W wall 3'	H13683-10	Soil		11/9/2007 1:28	11/9/2007 15:54	<10.0	<10.0		<10.0						368	
N wall 3'	H13683-11	Soil		11/9/2007 2:22	11/9/2007 15:54	<10.0	16.0		16.0						1140	
NE wall 3'	H13683-12	Soil		11/9/2007 2:20	11/9/2007 15:54	<10.0	<10.0		<10.0						64	
E wall 3'	H13683-13	Soil		11/9/2007 2:24	11/9/2007 15:54	<10.0	<10.0		<10.0						80	



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

ANALYTICAL RESULTS FOR
YATES ENERGY CORP.
ATTN: MIKE STUBBLEFIELD
P.O. BOX 10487
MIDLAND, TX 79702
FAX TO: (432) 683-5903

Receiving Date: 11/09/07
Reporting Date: 11/13/07
Project Number: NOT GIVEN
Project Name: YATES STATE TANK BTTY. CLEAN-UP
Project Location: EDDY CTY.

Sampling Date: 11/09/07
Sample Type: SOIL
Sample Condition: INTACT
Sample Received By: SB
Analyzed By: BC/HM/KS

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
		11/12/07	11/12/07	11/12/07
ANALYSIS DATE		11/12/07	11/12/07	11/12/07
H13683-1	SE BOTTOM 3' BGL	<10.0	43.2	96
H13683-2	SW BOTTOM 6' BGL	<10.0	42.9	160
H13683-3	NW BOTTOM 19' BGL	<10.0	<10.0	176
H13683-4	CENTER BOTTOM 6' BGL	<10.0	<10.0	752
H13683-5	NE BOTTOM 3' BGL	<10.0	81.1	288
H13683-6	NW WALL 3'	<10.0	<10.0	32
H13683-7	SE WALL 3'	<10.0	<10.0	32
H13683-8	S WALL 3'	<10.0	<10.0	272
H13683-9	SW WALL 3'	<10.0	<10.0	32
H13683-10	W WALL 3'	<10.0	<10.0	368
H13683-11	N WALL 3'	<10.0	16.0	1140
H13683-12	NE WALL 3'	<10.0	<10.0	64
H13683-13	E WALL 3'	<10.0	<10.0	80
Quality Control		756	768	500
True Value QC		800	800	500
% Recovery		94.5	96.0	100.0
Relative Percent Difference		0.1	1.3	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

11/13/07
Date

H13683 YATES

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Analytical Report 292422

for

O'Briant & Assoc., Inc. dba Sport Environmental Svcs.

Project Manager: Debi Smith, M.E., R.E.P.A

Yates Energy; Yates State Lease

Eddy County, NM

12-NOV-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

**Texas certification numbers:
Houston, TX T104704215**

**Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675**

**Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta**

**YATES ENERGY CORP.
YATES STATE 006 BATTERY CLEAN-UP
API #30-015-21622
LOV #0219107
Tracking #nLLB0631953733**



12-NOV-07

Project Manager: **Debi Smith, M.E., R.E.P.A**
O'Briant & Assoc., Inc. dba Sport Environmental Svcs.
500 W. Texas Ave., Ste 303
Midland, TX 79701

Reference: XENCO Report No: **292422**
Yates Energy; Yates State Lease
Project Address:

Debi Smith, M.E., R.E.P.A:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 292422. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 292422 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 292422



O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX
Yates Energy; Yates State Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH #1 A	S	Nov-02-07 10:20	6" In	292422-001
BH #1	S	Nov-02-07 10:28	28" In	292422-002
BH #2	S	Nov-02-07 10:31	40" In	292422-003
BH #3	S	Nov-02-07 10:48	78" In	292422-004
BH #4	S	Nov-02-07 10:55	6" In	292422-005
BH #5	S	Nov-02-07 11:10	84" In	292422-006
BH #6	S	Nov-02-07 11:22	6" In	292422-007
BH #7	S	Nov-02-07 11:30	36 In	292422-008
BH #9	S	Nov-02-07 11:45	18 In	292422-010
BH #10	S	Nov-02-07 11:55	6" In	292422-011
BH #11	S	Nov-02-07 12:01	18 In	292422-012
BH #12	S	Nov-02-07 12:10	6 In	292422-013
BH #13	S	Nov-02-07 12:16	18 In	292422-014
BH #14	S	Nov-02-07 12:20	6 In	292422-015
BH #15	S	Nov-02-07 12:26	18 In	292422-016
BH #16	S	Nov-02-07 12:30	6 In	292422-017
BH #17	S	Nov-02-07 12:33	18 In	292422-018
BH #18	S	Nov-02-07 12:40	6 In	292422-019
BH #19	S	Nov-02-07 12:45	18 In	292422-020
BH #20	S	Nov-02-07 13:50	6 In	292422-021
BH #21	S	Nov-02-07 13:54	18 In	292422-022



Certificate of Analysis Summary 292422

O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX

Project Id: Eddy County, NM
Contact: Debi Smith, M.E., R.E.P.A.
Project Location:

Project Name: Yates Energy; Yates State Lease

Date Received in Lab: Sat Nov-03-07 11:41 am


Report Date: 12-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	292422-001	292422-002	292422-003	292422-004	292422-005	292422-006
	Field Id:	BH #1 A	BH #1	BH #2	BH #3	BH #4	BH #5
	Depth:	6"- In	28"- In	40"- In	78"- In	6"- In	84"- In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-02-07 10:20	Nov-02-07 10:28	Nov-02-07 10:31	Nov-02-07 10:48	Nov-02-07 10:55	Nov-02-07 11:10
Percent Moisture	Extracted:						
	Analyzed:	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		19.0 1.00	16.8 1.00	19.5 1.00	9.05 1.00	11.3 1.00	11.0 1.00
TPH by SW8015 Mod	Extracted:	Nov-07-07 15:00	Nov-07-07 15:00	Nov-07-07 15:00	Nov-07-07 15:00	Nov-07-07 15:00	Nov-07-07 15:00
	Analyzed:	Nov-08-07 12:51	Nov-08-07 13:17	Nov-08-07 13:43	Nov-08-07 14:09	Nov-08-07 14:35	Nov-08-07 17:12
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		4960 185	ND 18.0	117 93.2	ND 16.5	3690 169	4080 169
C12-C28 Diesel Range Hydrocarbons		10700 185	21.2 18.0	394 93.2	ND 16.5	8390 169	8590 169
C28-C35 Oil Range Hydrocarbons		1250 185	ND 18.0	ND 93.2	ND 16.5	968 169	938 169
Total TPH		16910	21.2	511	ND	13048	13608
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		213 5.00	1280 5.00	1700 5.00	1190 5.00	170 5.00	2550 5.00

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 292422

O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX

Project Id: Eddy County, NM

Contact: Debi Smith, M.E., R.E.P.A

Project Name: Yates Energy; Yates State Lease

Date Received in Lab: Sat Nov-03-07 11:41 am

Report Date: 12-NOV-07


Project Location:

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	292422-007	292422-008	292422-010	292422-011	292422-012	292422-013
	Field Id:	BH #6	BH #7	BH #9	BH #10	BH #11	BH #12
	Depth:	6"- In	36- In	18- In	6"- In	18- In	6- In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-02-07 11:22	Nov-02-07 11:30	Nov-02-07 11:45	Nov-02-07 11:55	Nov-02-07 12:01	Nov-02-07 12:10
Percent Moisture	Extracted:	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00
	Analyzed:	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		4.10 1.00	5.99 1.00	6.75 1.00	5.75 1.00	5.72 1.00	12.3 1.00
TPH by SW8015 Mod	Extracted:	Nov-09-07 10:16	Nov-07-07 15:00	Nov-07-07 15:00	Nov-07-07 15:00	Nov-07-07 15:00	Nov-09-07 10:16
	Analyzed:	Nov-09-07 17:17	Nov-08-07 18:03	Nov-08-07 18:29	Nov-08-07 18:56	Nov-08-07 19:22	Nov-09-07 17:43
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		92.2 15.6	431 160	ND 16.1	ND 15.9	ND 15.9	17.5 17.1
C12-C28 Diesel Range Hydrocarbons		625 15.6	2560 160	19.1 16.1	ND 15.9	ND 15.9	163 17.1
C28-C35 Oil Range Hydrocarbons		203 15.6	370 160	ND 16.1	ND 15.9	ND 15.9	38.1 17.1
Total TPH		920.2	3361	19.1	ND	ND	218.6
Total Chloride by EPA 325.3	Extracted:	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00
	Analyzed:	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		63.8 5.00	63.8 5.00	63.8 5.00	128 5.00	42.5 5.00	42.5 5.00

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Odessa Laboratory Director



Certificate of Analysis Summary 292422

O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX

Project Id: Eddy County, NM
Contact: Debi Smith, M.E., R.E.P.A
Project Location:

Project Name: Yates Energy; Yates State Lease

Date Received in Lab: Sat Nov-03-07 11:41 am

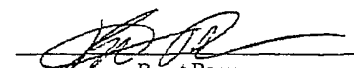
Report Date: 12-NOV-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	292422-014	292422-015	292422-016	292422-017	292422-018	292422-019
	<i>Field Id:</i>	BH #13	BH #14	BH #15	BH #16	BH #17	BH #18
	<i>Depth:</i>	18- In	6- In	18- In	6- In	18- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-02-07 12:16	Nov-02-07 12:20	Nov-02-07 12:26	Nov-02-07 12:30	Nov-02-07 12:33	Nov-02-07 12:40
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-05-07 14:00	Nov-06-07 09:45	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		4.51 1.00	4.59 1.00	9.67 1.00	1.05 1.00	1.13 1.00	2.89 1.00
TPH by SW8015 Mod	<i>Extracted:</i>	Nov-09-07 13:35	Nov-09-07 13:35	Nov-09-07 13:35	Nov-09-07 13:35	Nov-09-07 13:35	Nov-09-07 13:35
	<i>Analyzed:</i>	Nov-10-07 12:41	Nov-10-07 13:07	Nov-10-07 13:33	Nov-10-07 13:58	Nov-10-07 14:24	Nov-10-07 15:17
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 15.7	ND 15.7	ND 16.6	ND 15.2	ND 15.2	ND 15.4
C12-C28 Diesel Range Hydrocarbons		22.6 15.7	46.0 15.7	ND 16.6	ND 15.2	ND 15.2	56.5 15.4
C28-C35 Oil Range Hydrocarbons		ND 15.7	ND 15.7	ND 16.6	ND 15.2	ND 15.2	18.6 15.4
Total TPH		22.6	46	ND	ND	ND	75.1
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00	Nov-06-07 00:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		63.8 5.00	1030 5.24	1740 5.00	42.5 5.00	106 5.00	42.5 5.00

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Certificate of Analysis Summary 292422
O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX

Project Id: Eddy County, NM

Contact: Debi Smith, M.E., R.E.P.A

Project Name: Yates Energy; Yates State Lease

Date Received in Lab: Sat Nov-03-07 11:41 am

Report Date: 12-NOV-07


Project Location:

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	292422-020	292422-021	292422-022			
	Field Id:	BH #19	BH #20	BH #21			
	Depth:	18- In	6- In	18- In			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Nov-02-07 12:45	Nov-02-07 13:50	Nov-02-07 13:54			
Percent Moisture	Extracted:						
	Analyzed:	Nov-05-07 14:00	Nov-05-07 14:00	Nov-05-07 14:00			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		5.34 1.00	ND 1.00	ND 1.00			
TPH by SW8015 Mod	Extracted:	Nov-09-07 13:35	Nov-09-07 13:35	Nov-09-07 13:35			
	Analyzed:	Nov-10-07 15:43	Nov-10-07 16:09	Nov-10-07 16:35			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		ND 15.8	ND 15.1	ND 15.1			
C12-C28 Diesel Range Hydrocarbons		120 15.8	ND 15.1	29.7 15.1			
C28-C35 Oil Range Hydrocarbons		40.0 15.8	ND 15.1	ND 15.1			
Total TPH		160	ND	29.7			
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Nov-06-07 00:00	Nov-07-07 14:02	Nov-07-07 14:02			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		85.1 5.00	42.5 5.00	95.7 5.00			

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Odessa Laboratory Director



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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.
- 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.
- * Outside XENCO'S scope of NELAC Accreditation

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Yates Energy; Yates State Lease



Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708169

Sample: 292422-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	159	100	159	70-135	**
o-Terphenyl	52.1	50.0	104	70-135	

Lab Batch #: 708169

Sample: 292422-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	76.4	100	76	70-135	
o-Terphenyl	40.7	50.0	81	70-135	

Lab Batch #: 708169

Sample: 292422-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	45.6	50.0	91	70-135	

Lab Batch #: 708169

Sample: 292422-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	47.1	50.0	94	70-135	

Lab Batch #: 708169

Sample: 292422-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	70.1	100	70	70-135	
o-Terphenyl	37.6	50.0	75	70-135	

** 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: Yates Energy; Yates State Lease



Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708169

Sample: 292422-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	74.5	100	75	70-135	
o-Terphenyl	38.8	50.0	78	70-135	

Lab Batch #: 708169

Sample: 292422-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	138	100	138	70-135	**
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #: 708169

Sample: 292422-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	46.0	50.0	92	70-135	

Lab Batch #: 708169

Sample: 292422-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	79.2	100	79	70-135	
o-Terphenyl	43.1	50.0	86	70-135	

Lab Batch #: 708169

Sample: 292422-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	72.7	100	73	70-135	
o-Terphenyl	38.3	50.0	77	70-135	

** 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: Yates Energy; Yates State Lease



Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708169

Sample: 292422-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	76.4	100	76	70-135	
o-Terphenyl	39.7	50.0	79	70-135	

Lab Batch #: 708169

Sample: 292422-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	75.1	100	75	70-135	
o-Terphenyl	39.2	50.0	78	70-135	

Lab Batch #: 708169

Sample: 501291-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	44.3	50.0	89	70-135	

Lab Batch #: 708169

Sample: 501291-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	54.0	50.0	108	70-135	

Lab Batch #: 708169

Sample: 501291-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

** 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: Yates Energy; Yates State Lease



Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708201

Sample: 292422-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	78.8	100	79	70-135	
o-Terphenyl	38.7	50.0	77	70-135	

Lab Batch #: 708201

Sample: 292422-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	92.6	100	93	70-135	
o-Terphenyl	48.2	50.0	96	70-135	

Lab Batch #: 708201

Sample: 501309-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	50.5	50.0	101	70-135	

Lab Batch #: 708201

Sample: 501309-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	54.2	50.0	108	70-135	

Lab Batch #: 708201

Sample: 501309-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	50.2	50.0	100	70-135	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \times A / B$

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



Form 2 - Surrogate Recoveries

Project Name: Yates Energy; Yates State Lease



Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708283

Sample: 292422-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	85.6	100	86	70-135	
o-Terphenyl	44.4	50.0	89	70-135	

Lab Batch #: 708283

Sample: 292422-014 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	91.9	100	92	70-135	
o-Terphenyl	42.9	50.0	86	70-135	

Lab Batch #: 708283

Sample: 292422-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	79.9	100	80	70-135	
o-Terphenyl	41.8	50.0	84	70-135	

Lab Batch #: 708283

Sample: 292422-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	84.7	100	85	70-135	
o-Terphenyl	45.0	50.0	90	70-135	

Lab Batch #: 708283

Sample: 292422-017 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	78.6	100	79	70-135	
o-Terphenyl	39.1	50.0	78	70-135	

** 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: Yates Energy; Yates State Lease



Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708283

Sample: 292422-018 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	83.7	100	84	70-135	
o-Terphenyl	43.1	50.0	86	70-135	

Lab Batch #: 708283

Sample: 292422-019 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	76.6	100	77	70-135	
o-Terphenyl	40.4	50.0	81	70-135	

Lab Batch #: 708283

Sample: 292422-020 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	71.4	100	71	70-135	
o-Terphenyl	38.3	50.0	77	70-135	

Lab Batch #: 708283

Sample: 292422-021 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	76.2	100	76	70-135	
o-Terphenyl	39.2	50.0	78	70-135	

Lab Batch #: 708283

Sample: 292422-022 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	80.9	100	81	70-135	
o-Terphenyl	41.9	50.0	84	70-135	

** 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: Yates Energy; Yates State Lease



Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708283

Sample: 501342-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #: 708283

Sample: 501342-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	92.3	100	92	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #: 708283

Sample: 501342-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	48.1	50.0	96	70-135	

** 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.



Blank Spike Recovery



Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Project ID:

Eddy County, NM

Lab Batch #: 707980

Sample: 707980-1-BKS

Matrix: Solid

Date Analyzed: 11/06/2007

Date Prepared: 11/06/2007

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	100	93.6	94	75-125	

Lab Batch #: 707981

Sample: 707981-1-BKS

Matrix: Solid

Date Analyzed: 11/07/2007

Date Prepared: 11/07/2007

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	100	97.8	98	75-125	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

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



BS / BSD Recoveries



Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Analyst: SHE

Date Prepared: 11/07/2007

Project ID: Eddy County, NM

Date Analyzed: 11/08/2007

Lab Batch ID: 708169

Sample: 501291-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 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-C12 Gasoline Range Hydrocarbons	ND	1000	873	87	1000	870	87	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	827	83	1000	831	83	0	70-135	35	

Analyst: SHE

Date Prepared: 11/09/2007

Date Analyzed: 11/09/2007

Lab Batch ID: 708201

Sample: 501309-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 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-C12 Gasoline Range Hydrocarbons	ND	1000	799	80	1000	801	80	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	788	79	1000	791	79	0	70-135	35	

Relative Percent Difference RPD = $200 \times (D-F) / (D+F)$

Blank Spike Recovery [D] = $100 \times (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 \times (F) / [E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Analyst: SHE

Date Prepared: 11/09/2007

Project ID: Eddy County, NM

Date Analyzed: 11/10/2007

Lab Batch ID: 708283

Sample: 501342-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 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-C12 Gasoline Range Hydrocarbons	ND	1000	842	84	1000	791	79	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	829	83	1000	771	77	7	70-135	35	

Relative Percent Difference RPD = $200 * [(D-F)/(D+F)]$

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: Yates Energy; Yates State Lease



Work Order #: 292422

Lab Batch #: 708283

Date Analyzed: 11/10/2007

QC- Sample ID: 292422-014 S

Reporting Units: mg/kg

Project ID: Eddy County, NM

Analyst: SHE

Date Prepared: 11/09/2007

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	ND	1050	791	75	70-135	
C12-C28 Diesel Range Hydrocarbons	22.6	1050	810	75	70-135	

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



Form 3 - MS / MSD Recoveries



Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch ID: 708169

QC- Sample ID: 292422-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/08/2007

Date Prepared: 11/07/2007

Analyst: SHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 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-C12 Gasoline Range Hydrocarbons	ND	1200	1050	88	1200	1090	91	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	21.2	1200	1030	84	1200	1080	88	5	70-135	35	

Lab Batch ID: 707980

QC- Sample ID: 292422-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/06/2007

Date Prepared: 11/06/2007

Analyst: IRO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Total Chloride by EPA 325.3 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
Chloride	213	10000	10600	104	10000	10600	104	0	75-125	30	

Lab Batch ID: 707981

QC- Sample ID: 292422-021 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/07/2007

Date Prepared: 11/07/2007

Analyst: LATCOR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Total Chloride by EPA 325.3 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
Chloride	42.5	1000	947	90	1000	968	93	3	75-125	30	

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$
Relative Percent Difference $RPD = 200 \cdot (D-G)/(D+G)$

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

ND = Not Detected, I = 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: Yates Energy; Yates State Lease

Work Order #: 292422

Lab Batch #: 707959

Date Analyzed: 11/06/2007

QC- Sample ID: 292485-004 D

Reporting Units: %

Project ID: Eddy County, NM

Analyst: RBA

Date Prepared: 11/06/2007

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	9.67	6.67	37	20	F

Lab Batch #: 707972

Date Analyzed: 11/05/2007

QC- Sample ID: 292375-001 D

Reporting Units: %

Date Prepared: 11/05/2007

Batch #: 1

Analyst: RBA

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	1.24	1.56	23	20	F

Lab Batch #: 707983

Date Analyzed: 11/05/2007

QC- Sample ID: 292422-016 D

Reporting Units: %

Date Prepared: 11/05/2007

Batch #: 1

Analyst: RBA

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	9.67	8.93	8	20	

Spike Relative Difference $RPD = 200 * |(B-A)/(B+A)|$

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

A Xenco Laboratories Company

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Name: Yates Energy; Yates State Lease

Eddy County, NM

Project Loc:

PQ#:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: sportenvironmental@t3wireless.com

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled (TX)	Field Filtered	Total # of Containers	Preservation & # of Containers				Matrix				TOLP TOTAL:	Analyze For:	RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs	Standard TAT																
										Iso	HNO ₃	HCl	H ₂ SO ₄	NaOH	NH ₄ S ₂ O ₈	None	Cities (Specify)	Dye-Dinking Water St. Exchange	GWW - Groundwater Sx-Soils/Seds	HP-Hier-Peatle Specify Other	TPHE 418.1	BD15M	PDI5B	TX 1000	Ca/Mg, Mn, K	Arsenic (CL SD4, Ahalinity)	SAR / ESP / CEC	Mobility As Ag Br Cl Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 80218/5030 or BTEX 8280	RCI	N.O.R.M.				
01	BH #1A	6"		11/2/2007	10:00A	1												s	X		X																X
02	" E1	28"		11/2/2007	11:28A	1												s	X		X															X	
03	" IZ	40"		11/2/2007	10:31A	1												s	X		X															X	
04	#3	78"		11/2/2007	10:48A	1												s	X		X															X	
05	#4	6"		11/2/2007	10:55	1												s	X		X															X	
06	#5	34"		11/2/2007	11:10	1												s	X		X															X	
07	#6	6"		11/2/2007	11:13A	1												s	X		X															X	
08	#7	36		11/2/2007	11:30	1												s	X		X															X	
09	#8	6		11/2/2007	11:40A	1												s	X		X															X	
10	#9	18		11/2/2007	11:45A	1												s	X		X															X	

Special Instructions: Invoices should be sent to: Yates Energy Corporation c/o O'Brian and Associates, Inc dba Sport Environmental Services
505 N Big Spring Street, Suite 303, Midland, Texas 79701

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s)? Y N
Custody seals on container(s)? Y N
Custody seals on cooler(s)? Y N
Sample Hand Delivered? Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 22 °C

P 1/3

A Xenco Laboratories Company

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Name: Yates Energy; Yates State Lease

Eddy County, NM

Project Loc:

PO #:

Fax No: (432) 683-5903

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: sportenvironmental@t3wireless.com

[illegible]

P. 31

A Xenco Laboratories Company

12600 West I-20 East
Odessa, Texas 79765

e-mail: sportenvironmental@t3wireless.com

02/3

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: O'Brian & Assoc.
Date/ Time: Nov 04/07 11/03/07 11:41
Lab ID #: 292422
Initials: gms

Sample Receipt Checklist

	Yes	No	Client Initials
#1 Temperature of container/ cooler?	Yes	<u>No</u>	22.0 °C
#2 Shipping container in good condition?	<u>Yes</u>	No	
#3 Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present
#4 Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present
#5 Chain of Custody present?	<u>Yes</u>	No	
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	<u>No</u>	ID written on Cont./ Lid
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11 Containers supplied by ELOT?	<u>Yes</u>	No	
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13 Samples properly preserved?	<u>Yes</u>	No	See Below
#14 Sample bottles intact?	<u>Yes</u>	No	
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19 Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Variance Documentation

Contact: Jim Contacted by: Carmie Date/ Time: _____
Regarding: #8 - Sample #8 was not received

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event



Sample Data Summary

p. 1 of 1

Project Name: Yates Energy Corporation; Yates State Lease
Project Location: Eddy County, New Mexico

Analytical Results																
Methods: EPA 8015M (TPH), EPA 8021B (BTEX), SW 846 9253 (Cl)																
Sample ID	Lab ID	Matrix	Latitude/Longitude	Date Sampled	Date Received	Carbon Ranges C6-C10 (mg/kg dry)	Carbon Ranges C10-C28	Carbon Ranges C28-C35	Total Hydrocarbons	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)	Chloride (Cl) (mg/kg wet)	% Moisture
Trench Sampling																
T-001	289911-001	Soil		9/18/2007 0:00	9/19/2007 18:35	ND	ND	ND	ND						1400	14.1
T-002	289911-002	Soil		9/18/2007 0:00	9/19/2007 18:35	1690	7460	1130	10280						170	7.83
T-003	289911-003	Soil		9/18/2007 0:00	9/19/2007 18:35	ND	ND	ND	ND						1020	8.25
T-004	289911-004	Soil		9/18/2007 0:00	9/19/2007 18:35	ND	1050	457	1507						468	6.83
T-005	289911-005	Soil		9/18/2007 0:00	9/19/2007 18:35	ND	36.4	25.2	61.6						277	5.41
T-006	289911-006	Soil		9/18/2007 0:00	9/19/2007 18:35	ND	170	86.9	256.9						287	5.90
T-007	289911-007	Soil		9/18/2007 0:00	9/19/2007 18:35	ND	283	167	450						234	7.36
T-008	289911-008	Soil		9/18/2007 0:00	9/19/2007 18:35	ND	ND	ND	ND						723	10.4
T-009	289911-009	Soil		9/18/2007 0:00	9/19/2007 18:35	990	4860	736	6586						1450	7.75

Analytical Report 289911

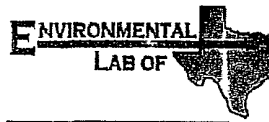
for

O'Briant & Assoc., Inc. dba Sport Environmental Srvs.

Project Manager: Debi Smith, M.E., R.E.P.A

Yates Energy; Yates State Lse. Trench Sampling

25-SEP-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

**Texas certification numbers:
Houston, TX T104704215**

**Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675**

**Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta**



25-SEP-07

Project Manager: Debi Smith, M.E., R.E.P.A
O'Briant & Assoc., Inc. dba Sport Environmental Svcs.
500 W. Texas Ave., Ste 1425
Midland, TX 79701

Reference: XENCO Report No: 289911
Yates Energy; Yates State Lse. Trench Sampling
Project Address:

Debi Smith, M.E., R.E.P.A:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 289911. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 289911 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 289911

D'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX
Yates Energy, Yates State Lse. Trench Sampling

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-001 (0')	S	Sep-18-07 00:00	24 In	289911-001
T-002 (10')	S	Sep-18-07 00:00	30 In	289911-002
T-003 (20')	S	Sep-18-07 00:00	48 In	289911-003
T-004 (30')	S	Sep-18-07 00:00	60 In	289911-004
T-005 (40')	S	Sep-18-07 00:00	54 In	289911-005
T-006 (40')	S	Sep-18-07 00:00	30 In	289911-006
T-007 (50')	S	Sep-18-07 00:00	36 In	289911-007
T-008 (60')	S	Sep-18-07 00:00	24 In	289911-008
T-009 (60')	S	Sep-18-07 00:00	42 In	289911-009



Certificate of Analysis Summary 289911

O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX

Project Id:
Contact: Debi Smith, M.E., R.E.P.A
Project Location:

Project Name: Yates Energy; Yates State Lse: Trench Sampling

Date Received in Lab: Wed Sep-19-07 06:35 pm


Report Date: 25-SEP-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	289911-001	289911-002	289911-003	289911-004	289911-005	289911-006
	Field Id:	T-001 (0')	T-002 (10')	T-003 (20')	T-004 (30')	T-005 (40')	T-006 (40')
	Depth:	24- In	30- In	48- In	60- In	54- In	30- In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-18-07 00:00	Sep-18-07 00:00	Sep-18-07 00:00	Sep-18-07 00:00	Sep-18-07 00:00	Sep-18-07 00:00
Percent Moisture	Extracted:	Sep-20-07 10:30	Sep-20-07 10:30	Sep-20-07 10:30	Sep-20-07 10:30	Sep-20-07 10:30	Sep-20-07 10:30
	Analyzed:	Sep-20-07 10:30	Sep-20-07 10:30	Sep-20-07 10:30	Sep-20-07 10:30	Sep-20-07 10:30	Sep-20-07 10:30
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		14.1 1.00	7.83 1.00	8.25 1.00	6.83 1.00	5.41 1.00	5.90 1.00
TPH by SW8015 Mod	Extracted:	Sep-20-07 14:33	Sep-20-07 14:33	Sep-20-07 14:33	Sep-20-07 14:33	Sep-20-07 14:33	Sep-20-07 14:33
	Analyzed:	Sep-20-07 19:12	Sep-20-07 19:39	Sep-20-07 20:05	Sep-20-07 20:32	Sep-24-07 13:21	Sep-21-07 08:51
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 11.6	1690 54.2	ND 10.9	ND 53.7	ND 10.6	ND 10.6
C12-C28 Diesel Range Hydrocarbons		ND 11.6	7460 54.2	ND 10.9	1050 53.7	36.4 10.6	170 10.6
C28-C35 Oil Range Hydrocarbons		ND 11.6	1130 54.2	ND 10.9	457 53.7	25.2 10.6	86.9 10.6
Total TPH		ND	10280	ND	1507	61.6	256.9
Total Chloride by EPA 325.3	Extracted:	Sep-20-07 11:00	Sep-20-07 11:00	Sep-20-07 11:00	Sep-20-07 11:00	Sep-20-07 11:00	Sep-20-07 11:00
	Analyzed:	Sep-20-07 11:00	Sep-20-07 11:00	Sep-20-07 11:00	Sep-20-07 11:00	Sep-20-07 11:00	Sep-20-07 11:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1400 5.00	170 5.00	1020 5.00	468 5.00	277 5.00	287 5.00

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.

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 289911
O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX

Project Id:
Contact: Debi Smith, M.E., R.E.P.A
Project Location:

Project Name: Yates Energy; Yates State Lse. Trench Sampling

Date Received in Lab: Wed Sep-19-07 06:35 pm


Report Date: 25-SEP-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	289911-007	289911-008	289911-009			
	Field Id:	T-007 (50')	T-008 (60')	T-009 (60')			
	Depth:	36- In	24- In	42- In			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Sep-18-07 00:00	Sep-18-07 00:00	Sep-18-07 00:00			
Percent Moisture	Extracted:						
	Analyzed:	Sep-20-07 10:30	Sep-20-07 10:30	Sep-20-07 10:30			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		7.36 1.00	10.4 1.00	7.75 1.00			
TPH by SW8015 Mod	Extracted:	Sep-20-07 14:33	Sep-20-07 14:33	Sep-20-07 14:33			
	Analyzed:	Sep-21-07 09:18	Sep-21-07 09:47	Sep-24-07 13:49			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		ND 54.0	ND 11.2	990 54.2			
C12-C28 Diesel Range Hydrocarbons		283 54.0	ND 11.2	4860 54.2			
C28-C35 Oil Range Hydrocarbons		167 54.0	ND 11.2	736 54.2			
Total TPH		450	ND	6586			
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Sep-20-07 11:00	Sep-20-07 11:00	Sep-20-07 11:00			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		234 5.00	723 5.00	1450 5.00			

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.

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Brent Barron
Odessa Laboratory Director



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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.
 - 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.
- * Outside XENCO'S scope of NELAC Accreditation

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Yates Energy; Yates State Lse. Trench Sampling

Work Order #: 289911

Project ID:

Lab Batch #: 704889

Sample: 289905-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	36.9	50.0	74	70-135	
1-Chlorooctane	55.1	50.0	110	70-135	

Lab Batch #: 704889

Sample: 289905-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	39.7	50.0	79	70-135	
1-Chlorooctane	57.3	50.0	115	70-135	

Lab Batch #: 704889

Sample: 289911-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	38.7	50.0	77	70-135	
1-Chlorooctane	44.9	50.0	90	70-135	

Lab Batch #: 704889

Sample: 289911-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	60.0	50.0	120	70-135	
1-Chlorooctane	74.9	50.0	150	70-135	**

Lab Batch #: 704889

Sample: 289911-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	39.6	50.0	79	70-135	
1-Chlorooctane	45.9	50.0	92	70-135	

** 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: Yates Energy; Yates State Lse. Trench Sampling

Work Order #: 289911

Project ID:

Lab Batch #: 704889

Sample: 289911-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	39.3	50.0	79	70-135	
1-Chlorooctane	45.5	50.0	91	70-135	

Lab Batch #: 704889

Sample: 289911-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	44.4	50.0	89	70-135	
1-Chlorooctane	52.4	50.0	105	70-135	

Lab Batch #: 704889

Sample: 289911-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	37.1	50.0	74	70-135	
1-Chlorooctane	42.1	50.0	84	70-135	

Lab Batch #: 704889

Sample: 289911-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	32.4	50.0	65	70-135	**
1-Chlorooctane	37.9	50.0	76	70-135	

Lab Batch #: 704889

Sample: 289911-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	37.1	50.0	74	70-135	
1-Chlorooctane	42.9	50.0	86	70-135	

** 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: Yates Energy; Yates State Lse. Trench Sampling

Work Order #: 289911

Project ID:

Lab Batch #: 704889

Sample: 289911-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	39.9	50.0	80	70-135	
1-Chlorooctane	65.6	50.0	131	70-135	

Lab Batch #: 704889

Sample: 499565-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	42.2	50.0	84	70-135	
1-Chlorooctane	60.1	50.0	120	70-135	

Lab Batch #: 704889

Sample: 499565-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	52.0	50.0	104	70-135	
1-Chlorooctane	62.6	50.0	125	70-135	

** 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.



Blank Spike Recovery

Project Name: Yates Energy; Yates State Lse. Trench Sampling

Work Order #: 289911

Project ID:

Lab Batch #: 704889

Sample: 499565-1-BKS

Matrix: Solid

Date Analyzed: 09/20/2007

Date Prepared: 09/20/2007

Analyst: SHE

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
C6-C12 Gasoline Range Hydrocarbons	ND	500	522	104	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	360	72	70-135	

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

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



Form 3 - MS / MSD Recoveries

Project Name: Yates Energy; Yates State Lse. Trench Sampling

Work Order #: 289911

Project ID:

Lab Batch ID: 704889

QC- Sample ID: 289905-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 09/24/2007

Date Prepared: 09/20/2007

Analyst: SHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 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-C12 Gasoline Range Hydrocarbons	ND	534	494	93	534	524	98	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	534	435	81	534	470	88	8	70-135	35	

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$
Relative Percent Difference $RPD = 200 \cdot (D-G)/(D+G)$

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

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: Yates Energy; Yates State Lse. Trench Sampling

Work Order #: 289911

Lab Batch #: 704725

Date Analyzed: 09/20/2007

QC- Sample ID: 289911-001 D

Reporting Units: %

Date Prepared: 09/20/2007

Batch #: 1

Project ID:

Analyst: RBA

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	14.1	15.3	8	20	

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

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Debi S. Smith, ME, REPA Environmental Consultant

Project Name: Yates Energy; Yates State Lease

Company Name: O'Brian and Associates, Inc. dba Sport Environmental Services

Trench Sampling

Company Address: 505 N. Big Spring Street, Suite 303

Project Loc: _____

City/State/Zip: Midland, TX 79701

PO #: _____

Telephone No: (432) 683-1100

Fax No: (432) 683-6903

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

Sampler Signature: _____ e-mail: sportsenvironmental@t3wireless.com

(lab use only)

ORDER #: 289911

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled (TX)	Field Filtered	Total # of Containers	Preservation & # of Containers										Matrix										Analyze For:										RUSH TAT (Per Schedule) 24, 48, 72 hrs	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None	Other (Specify)	DW-Drinking Water SL-Sludge	GW-Groundwater S-Solid	NP-Non-Petroleum	Specify Other	TPH: 418.1	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, Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	NORM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Special Instructions: Invoices should be sent to Yates Energy Corporation c/o OB&A dba Sport Environmental Services
505 N. Big Spring Street Suite 303 Midland, Texas 79701

Laboratory Comments:

Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) written on bag Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 22°C

Relinquished by: <u>Debi S. Smith</u>	Date: <u>9/19/07</u>	Time: <u>6:35 pm</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>ELOI</u>	Date: <u>9/19/07</u>	Time: <u>6:35 pm</u>

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: J'Briant : Associates
Date/ Time: 09-19-07 @ 1635
Lab ID #: 289911
Initials: JMF

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	<u>(Yes)</u>	No	22 °C	
#2	Shipping container in good condition? <u>Crucial bag</u>	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present <u>(N/A)</u>	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<u>(Not Present)</u>	
#5	Chain of Custody present?	<u>(Yes)</u>	No		
#6	Sample instructions complete of Chain of Custody?	Yes	<u>(No)</u>	<u>Need TPA manual</u>	<u>CI?</u>
#7	Chain of Custody signed when relinquished/ received?	<u>(Yes)</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>(Yes)</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	<u>(Not Applicable)</u>	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>(Yes)</u>	No		
#11	Containers supplied by ELOT?	Yes	<u>(No)</u>		
#12	Samples in proper container/ bottle?	Yes	<u>(No)</u>	See Below	
#13	Samples properly preserved?	Yes	<u>(No)</u>	See Below	<u>See</u>
#14	Sample bottles intact? <u>bags</u>	<u>(Yes)</u>	No		
#15	Preservations documented on Chain of Custody?	<u>(Yes)</u>	No		
#16	Containers documented on Chain of Custody?	<u>(Yes)</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>(Yes)</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>(Yes)</u>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<u>(Not Applicable)</u>	
#20	VOC samples have zero headspace?	Yes	<u>(No)</u>	Not Applicable	

Variance Documentation

Contact: Debbie Smith Contacted by: Brent Barron Date/ Time: 09-19-07 @ 1635
Regarding: proper sample preservation, method TPA EXEM, And CI only

Corrective Action Taken:

Check all that Apply:

☐ See attached e-mail/ fax

☒ Client understands and would like to proceed with analysis

☐ Cooling process had begun shortly after sampling event