Rec's 5/27/09

Destrict.8
1625 N. French Dr., Hobbs, ISM 88240
Destrict B
1301 W. Gerand Avenue, Aztesia. SIM 88210
Destrict BB
1600 Rao French Rund, Aznec, NM 87410
Destrict BV
1220 S. St. Francis Dr., Souta Fc, ISM 87505

### State of New Mexico **Energy Minerals and Natural Resources**

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

Submit 2 Copies to appregnishe Destrict (Blice in neconlance with Rule 116 on back side of form

Form C-141 Revised October 10, 2001

			Rele	ase Notifi	ea tior	a and Co	rrective.	Acti	on		
<b>NLLB</b> C	10319	59733				<b>OPERA</b>	ror		[] Init	ial Report	Firm! Repor
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Surface Ov	ner Jimm	ry Richardso		[Mineral 9	Owner	State		++4 ++4	LLeise	No. E-22	II
			***************************************	LOC		N OF RE	LEASE		MANAGEMENT AND	~ ~ <b>x</b> ~ p ~ <b>1</b>	n // reggigggggan o a assurance . / . In subdiscion noother
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By Whom":	shooyl L. Jos	E235	**************************************	Militaria de la composição de la composi		The second contract of	M4 000 Taxal	Term'	Time: \$-28-00	***** *** ****************************	ANY THE STREET AND SERVICE WHEN AND A PROPERTY AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRA
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### O'Briant & Associates, Inc.

P. O. Box 10487 Midland, TX, 79702 (432) 683-5511 (24 Hr. Ans), (432) 683-5903 (Fax) E-Mail: obriantassoc@sbcglobal.net

Mr. Mike Bratcher 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

Yates Energy Corp.

Yates State Lease

Page:

5

Location: Eddy Co., NM
Elev. 

T

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 aound 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 & walt 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

Witenssed by Ray Garcie & John Penick, 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

### O'Briant & Associates, Inc.

### 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.

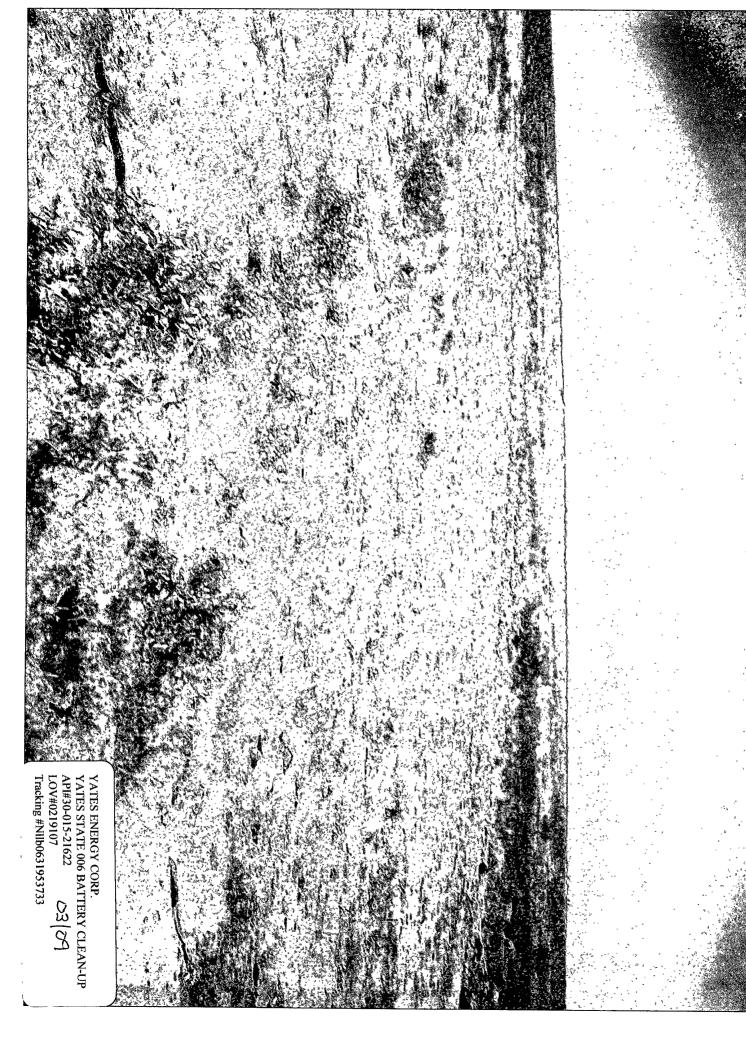
Daily cost added when available

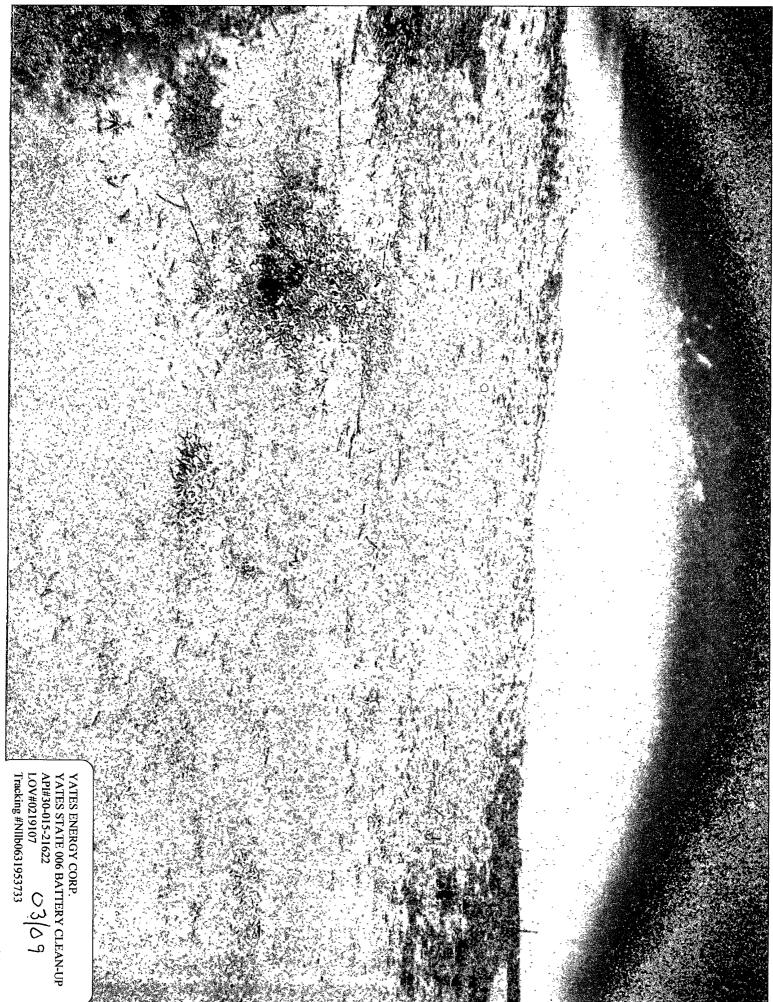
11/20/07: Loaded and hauled apx. 200 cubic yards to land farm. Repaired road and turn around. Sampled SW and NW extensions; delivered to Cardinal Labs in Hobbs.

Daily cost added when available

Fred Yates Page No. 2 of 1



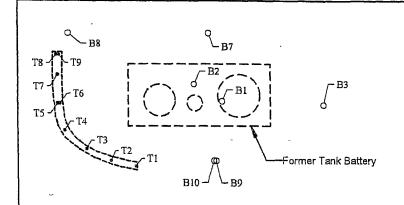


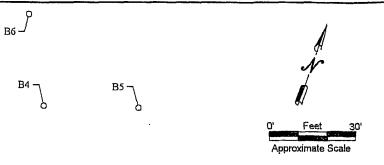


# Yates Energy Corporation Yates State Lease Site Clean-up

# 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
Tl	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	31	<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)

			22.0	556	CODY T	
Borehole #	Sample #	Depth	GRO	DRO	TPH	Cl
	BH-1A	7'	4960	11950	- 16910	213
B1	BH-1	91	<18	21.2	21.2	1280
1 151	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
D2	BH-5	13'	4080	9528	13608	2550
B3	BH-6	0,	92.2	828	920	63.8
253	BH-7	3'	431	2930	3361	63.8
B4	BH-9	2'	<16.1	19.1	19.1	638
В5	BH-10	0'	<15.9	<15.9	<15.9	128
Β3	BH-11	2'	<15.9	<15.9	<15.9	42.5
В6	BH-12	0'	17.5	201	219	42.5
D0	BH-13	2'	<15.7	22.6	22.6	63.8
В7	BH-14	0'	<15.7	46	46	1030
D/	BH-15	2 <sup>t</sup>	<16.6	<16.6	<16.6	1740
B8	BH-16	0'	<15.2	<15.2	<15.2	42.5
Б6	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
D11	BH-20	0,	<15.1	<15.1	<15.1	42.5
B11	DIT 21		-15.1	20.7	20.7	057

Hand Auger Samples Collected on November 2, 2007

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

95.7



# **Sample Data Summary**

p. 1 of 2

Project Name: Project Location:

Yates Energy Corporation; Yates State Lease Eddy County, New Mexico

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			-		-	される。 をよっておる。		ds: EPA		PH), EF	A 8021E	3 (BTEX	SW 84	6 9253 (	GI)建造	
						Carbon Ranges C6-C12- mg/kg.dty)	Carbon Ranges C12-G28	Carbon Ranges G28-C35	dal Hydrocarbons	Велгене	Toluene.	Ethylbenzene	Xylene (p/m)	ylene (0)	Chloride,(Cl) (mg/kg wet)	% Moisture
and the sales of the sales	. ct. 10 1001 aufret auer, lette	Matrix	Latitude/Longitude	Date Sampled	Date Received	-8 €	S. S.		or are not so	taken dala an ca		<b>多</b> 量的	₹ ·	7 10 2 3 13 1	4.7.20	
Borehole	Sampling										以過程	學的情報 I			<b>和学习模</b>	<b>和</b> 题:
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	סא						1190	9.05
BH #4	292422-005	Şoil		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	
BH #8	Sample lost No reporting	Soil	-	11/2/2007 11:40	11/3/2007 11:41	到了 新聞	<b>新疆</b>									
BH #9	292422-010	Soil		11/2/2007 11:45	11/3/2007 11:41	ND		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

# Sample Data Summary

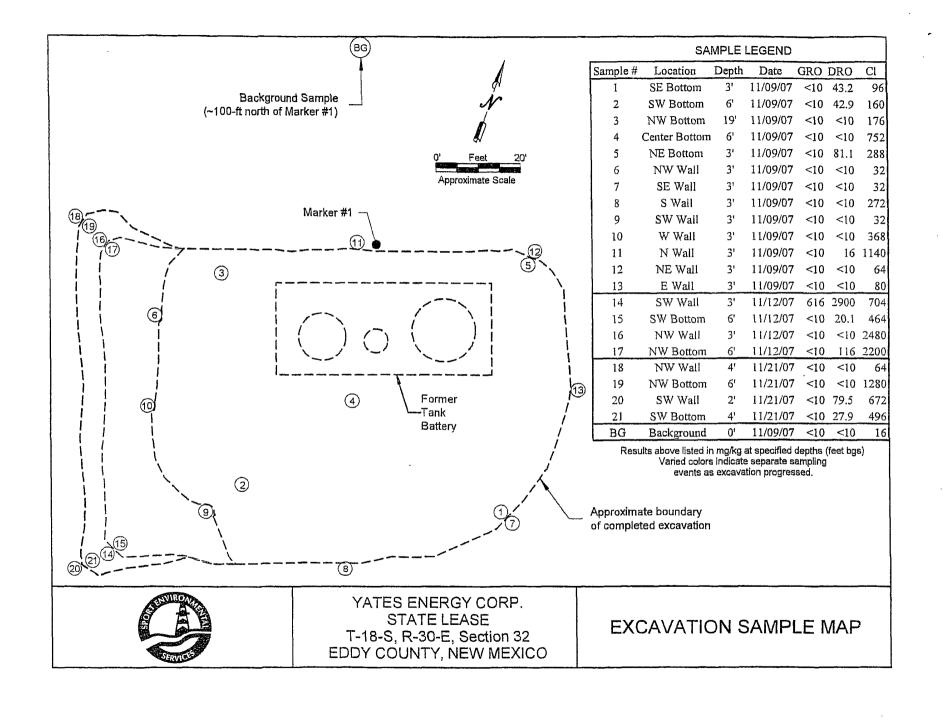
Yates Energy Corporation; Yates State Lease Eddy County, New Mexico Project Name: Project Location:

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	\\ \alpha \\ \a	Chloride (Cl) (mg/kg wet)	100	63.8	1030	1740	42.5	106	42.5	85.1	42.5	95.7			
	5 9253 ((	Xķeue(c)													
	SW 84	χλίευle (b/m):		1											
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al Res	4.8021B	Lonene	統領												
Analytical Results	PH); EP,	auezuag													
N. S.	EPA 8015M (TPH), EPA 8021B (BIEX); SW 846 9253 (CI	Total Hydrocarbons	の開発を表	22.6	46	9	2	Q.	75.1	160	2	29.7			<del>                                     </del>
	EPA 8	Carbon Ranges C28-035		QN	QN	Ş	Ð	Ω	18.6	40.0	2	2		<del> </del>	
	Methods	Carbon Ranges C 10-C28	機能を	22.6	46.0	Q Z	Q	Ω	56.5	120	2	29.7			
	深線	(Λîρβλ/βω)	高级	Q	ND	Ö	2	Q	9	2	2	QN O			
5-146 1444 1-15-1 1-15-		Carbon Ranges C6-C10				-									
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	· · · · · · · · · · · · · · · · · · ·	L E	Sampli	292422-014	292422-015	292422-016	292422-017	292422-018	292422-019	292422-020	292422-021	292422-022			
	· (4) (3) (3)	Sample: [D	Borehole Sampling	BH #13	BH #14	BH #15	BH #16	BH #17	BH #18	BH #19	BH #20	BH #21			

# 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



# Sample Data Summary

Project Name: Project Location;

Yates Energy Corporation; Yates State Lease Eddy County, New Mexico

F-7:		to a contract of the contract	·				 					·	·	<del></del>
3.7 -5.4		ejwsioM.4	.1											
	00	Chloride (CI) (mg/kg.wet)	84	1280	672	496								
	Wethods: `EPA 8015M (TPH) ;EPA 802(1B (BTEX) SW 846 9253 (CI)													
	SW 846	(W/f) auaj/\	4		<b>†</b>			1						
Its	BrEX)	Ξινλγρέυς					1							
Analytical Results	8021B	auanjoj			1		 -	-			<b> </b> -			
llytica	1), EPA	geuzcue			-		-							
	6M (TP)		<10.0	<10.0	79.5	27.9		-						
	PA 801	<u>述证明</u> 的研究的主要和证据证据 可是研究的证据的可能证据	-	V				-						
	ods: E	Carbon Ranges C28-C35	1											
	Met	Carbon Ranges C.12-C28	<10.0	1	1									
		Carbon-Ranges CS C12: (mg/kgi.dv)	<10.0	<10.0	<10.0	<10.0								
<u> </u>		<b>学科的大学的基础的主义</b>		17:20	17:20	17:20								
	i di collecti	in i	11/20/2007 17:20	11/20/2007 17:20	11/20/2007 17:20	11/20/2007 17:20								
		<b>为公司工程等的管理的基础</b>	11/2	11/2	11/2	11/2	 							
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	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Sample, ID	wali 3S	NW bottom 6' BGS	wall 3S	SW bottom 4' BGS			į					
	177	S	NVV Wall	NW bot 6' BGS	SW wal	SW bot 4' BGS								



ANALYTICAL RESULTS FOR YATES ENERGY CORPORATION ATTN: JIM O'BRIANT

P.O. BOX 10487 MIDLAND, TX 79702 FAX TO: (432) 683-5903

Receiving Date: 11/20/07 Reporting Date: 11/21/07

Project Number: NOT GIVEN

Project Name: YATES STATE BATTERY Project Location: YATES STATE LEASE

Sampling Date: 11/20/07

Sample Type: SOIL

Sample Condition: INTACT Sample Received By: BC

Analyzed By: CK/KS

78.6

2.0

100

<0.1

LAB NUMBER SAMPLE ID	GRO (C <sub>6</sub> -C <sub>12</sub> ) (mg/kg)	DRO (>C <sub>12</sub> -C <sub>28</sub> ) (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 BOT,TOM 4' BGS	<10.0	27.9	496
Quality Control	459	393	500
True Value QC	500	500	500

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

Chemist

Date

91.8

10.6

H13763TCL YATES ENERGY

% Recovery

Relative Percent Difference



# **Sample Data Summary**

p. 1 of 1

Project Name: Project Location:

Yates Energy Corporation; Yates State Lease Eddy County, New Mexico

						製造を	生态运		A	nalytic	al Res	ülts	遊遊		ing a state of the	61- 11-15 Sign 19-15
	,						Metho	ds: ERA	8015M (1	PH), EF	A 8021E	B(BTEX)	SW 84	6 9253 (	ÇI)法特定	
«Sample ID»	Lab ID.	Matrix	Lattlude/Longitude	. Date Sampled	Date Received	Carbon Ranges CG-C12 (mg/kg diy)	Carbon Ranges C12-C28	128-C35	(C) \$ U.T.	Berzene	113 13 15 15 16	45-15 - 153	Xylene (p/m)	Xylene (o)		% Moisture
Background	H13691-1	Soil		11/9/2007 12:01	11/12/2007 13:58	<10.0	<10.0		<10.0						16	
SW wall 3'	H13691-2	Soil		11/12/2007 12:15	11/12/2007 13:58	616	2900		3516						704	
	H13691-3	Soil		11/12/2007 12:00	11/12/2007 13:58	<10.0	20.1		20.1						464	
NW wall 3'	H13691-4	Soil		11/12/2007 12:10	11/12/2007 13:58	<10.0	<10.0		<10.0						2480	
NW bottom	H13691-5	Soil		11/12/2007 12:05	11/12/2007 13:58	<10.0	116		116						2200	·



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

	GRO	DRO	
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS E	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 Cont	rol	756	768	500
True Value C	C	800 .	800	500
% Recovery		94.5	96.0	100.0
Relative Per	cent Difference	0.1	1.3	<0.1

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

**H13691 YATES** 

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or fort, shall be timited 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.



# **Sample Data Summary**

p. 1 of 1

Project Name: Project Location:

Yates Energy Corporation; Yates State Lease Eddy County, New Mexico

									A	nalytic	al Res	ults				Alas a
				<u> </u>					8015M.(1	PH), EF	A 8021E	BTEX				12 SA
Sample ID:	Ľab 10	Mätrix	.Eafilude/Longitude	Date Sampled	Date Received	Carbon Ranges CG-C12 (mg/kg dr/)	Carbon Ranges Of 2 028	Garbon Ranges: C28-C35	Tofál Hydrocarbons	Beirzene	Toluene	Effylbenzene	Xylene (p/m)	Xylene.(b)	Chloride (CI) (mg/kg/wet)	%Woisure
SE bottom 3' BGL	H13683-1	Soil		11/9/2007 13:20	11/9/2007 15:54	<10.0	43.2		43.2						96	
	H13683-2	Soil		11/9/2007 13:15	11/9/2007 15:54	<10.0		-	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	
	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	
·	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	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						1140	
NE wall 3'	H13683-12	Soil		11/9/2007 2:20	11/9/2007 15.54	<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	



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

		GRO	DRO	
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Ci*
LAB NUMBER SAMPLE	ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE		11/12/07	11/12/07	11/12/07
H13683-1 SE BOT	FOM 3' BGL	<10.0	43.2	96
H13683-2 SW BOT	TOM 6' BGL	<10.0	42.9	160
H13683-3 NW BOT	TOM 19' BGL	<10.0	<1.0.0	176
H13683-4 CENTER	BOTTOM 6' BGL	<10.0	<10.0	752
H13683-5 NE BOT	FOM 3' BGL	<10.0	81.1	288
H13683-6 NW WAI	.L 3'	<10.0	<10.0	32
H13683-7 SE WAL	L 3'	<10.0	<10.0	32
H13683-8 S WALL	3'	<10.0	<10.0	272
H13683-9 SW WAL	L 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 WAL	L 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 Differen	ce	0.1	1.3	<0.1

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

**H13683 YATES** 

## **Analytical Report 292422**

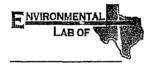
for

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

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 Srvs.

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**



### D'Briant & Assoc., Inc. dba Sport Environmental Srvs., Midland, I

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 <b>I</b> n	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



Project Location:

### Certificate of Analysis Summary 292422

### O'Briant & Assoc., Inc. dba Sport Environmental Srvs., 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 Manager - Brent Barron II

								Project Mar	inger:	Brent Barron,	11		
	Lab [d:	292422-0	01	292422-00	02	292422-00	03	292422-0	04	292422-0	05	292422-00	06
Analysis Requested	Field [d:	BH #1 A	١	BH #1		BH #2		BH #3		BH #4		BH #5	
moysis Requested	Depth:	6"- In	6"- In			40"- In		78"- In		6"- In		84"- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	į	SOIL	
	Sampled:	Nov-02-07 1	0:20	Nov-02-07 1	0:28	Nov-02-07 1	0:31	Nov-02-07	0:48	Nov-02-07	10:55	Nov-02-07 I	1:10
Percent Moisture	Extracted:												
	Analyzed:	Nov-05-07	14:00	Nov-05-07 1	4:00	Nov-05-07 I	14:00	Nov-05-07	14:00	Nov-05-07	14:00	Nov-05-07 I	4:00
	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 I	15:00
	Analyzed:	Nov-08-07	12:51	Nov-08-07 1	13:17	Nov-08-07	13:43	Nov-08-07	14:09	Nov-08-07	14:35	Nov-08-07 I	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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### Certificate of Analysis Summary 292422

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

Project Id: Eddy County, NM

Project Name: Yates Energy; Yates State Lease

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

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

Report Date: 12-NOV-07

Project Location:

oject Location.								-					
								Project Mar	ager:	Brent Barron,	II		
	Lab Id:	292422-0	07	292422-0	98	292422-0	10	292422-0	11	292422-0	12	292422-0	13
Analysis Requested	Field Id:	BH #6		BH #7	- 1	BH #9		BH #10	)	BH #11		BH #12	
минузы пециелен	Depth:	6"- In		36- In		18- In		6"- In		18- In		6- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	1	SOIL	
	Sampled:	Nov-02-07	11:22	Nov-02-07 1	1:30	Nov-02-07	11:45	Nov-02-07	11:55	Nov-02-07	12:01	Nov-02-07 I	2:10
Percent Moisture	Extracted:												
	Analyzed:	Nov-05-07	14:00	Nov-05-07 I	4:00	Nov-05-07	14:00	Nov-05-07	14:00	Nov-05-07	14:00	Nov-05-07 I	4:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.10	00.1	5.99	00.1	6.75	1.00	5.75	1.00	5.72	00.1	12.3	1.00
TPH by SW8015 Mod	Extracted:	Nov-09-07	10:16	Nov-07-07	Nov-07-07 15:00 Nov-07-07 15:00 Nov-08-07 18:03 Nov-08-07 18:29		Nov-07-07	15:00	Nov-07-07	15:00	Nov-09-07 1	0:16	
	Analyzed:	Nov-09-07	17:17	Nov-08-07			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:												
	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	638	5.00	128	5.00	42.5	5.00	42.5	5.00

This analytical report, and the eatire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this smalytical 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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### Certificate of Analysis Summary 292422

O'Briant & Assoc., Inc. dba Sport Environmental Srvs., 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 Manager: Brent Barron, II

Project Location:

								0 000 11.		Dient Dairoit,			
	Lab Id:	292422-0	14	292422-0	15	292422-0	16	292422-0	17	292422-0	18	292422-01	9
Analysis Requested	Field Id:	BH #13	,	BH #14	. [	BH #15		BH #16		BH #17	į	BH #18	
Analysis Requestea	Depth:	18- In		6- In		18- In		6- In		18- In	1	6- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-02-07	12:16	Nov-02-07 1	2:20	Nov-02-07 1	2:26	Nov-02-07	2:30	Nov-02-07 1	2:33	Nov-02-07 1	2:40
Percent Moisture	Extracted:												
	Analyzed:	Nov-05-07	14:00	Nov-06-07 (	19:45	Nov-05-07 I	4:00	Nov-05-07	14:00	Nov-05-07	14:00	Nov-05-07 1	4:00
	Units/RL:	%	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	Extracted:	Nov-09-07	13:35	Nov-09-07	13:35	Nov-09-07 I	13:35	Nov-09-07	13:35	Nov-09-07	13:35	Nov-09-07 1	3:35
72 22 35 5 17 0022 1720a	Analyzed:	Nov-10-07	12:41	Nov-10-07	13:07	Nov-10-07 1	13:33	Nov-10-07	13:58	Nov-10-07	14:24	Nov-10-07 1	5:17
	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	15.7	ND	15.7	ND	16.6	ND	15.2	ND	15.2	ND	15.
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	ИN	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	Extracted:												
Total Smith of Mark Sault	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 0	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	1030	5.24	1740	5.00	42.5	5.00	106	5.00	42.5	5.0

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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### Certificate of Analysis Summary 292422

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

Project Id: Eddy County, NM

Project Name: Yates Energy; Yates State Lease

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

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

Report Date: 12-NOV-07

Project Location:

oject Bocation.								Project Manage	r: Brent Barron,	Π	
,	Lab Id:	292422-0	20	292422-02	21	292422-02	22				
Analysis Requested	Field Id:	BH #19		BH #20		BH #21	•				
Anatysis Requested	Depth:	18- In		6- In		18- In					
	Matrix:	SOIL		SOIL		SOIL			ł		
	Sampled:	Nov-02-07	12:45	Nov-02-07 1	3:50	Nov-02-07 1	3:54				
Percent Moisture	Extracted:						_				
	Analyzed:	Nov-05-07	14:00	Nav-05-07 1	4:00	Nov-05-07 1	4:00				
	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 1	3:35	Nov-09-07	13:35		1		
	Analyzed:	Nov-10-07	15:43	Nov-10-07 1	6:09	Nov-10-07 1	6:35				
	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:	•									
Total Oblinion by Exil Subility	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				

This analytical report, and the entire data package if 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 Laborationes. XENCO Laborationes assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our hability is limited to the amount invoiced for this work order utless otherwise agreed to in writing.

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### MENCO Laboratoriles

### 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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Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708169

Sample: 292422-001 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
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	Control Limits %R	Flags			
Analytes			[D]					
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	SU	SURROGATE RECOVERY STUDY								
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
I-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	SU	SURROGATE RECOVERY STUDY								
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
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	SU	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod	Amount Found [A]	· True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	70.1	100	70	70-135	
o-Terphenyl	37.6	50.0	75	70-135	-

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution





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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution





Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708169

Sample: 292422-011 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
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	SU	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
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	SU	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
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	Control Limits %R	Flags	
Analytes			[D]			
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:

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			(10)			
1-Chlorooctane	100	100	100	70-135		
o-Terphenyl	43.6	50.0	87	70-135		

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution





Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708201

Sample: 292422-007 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY				
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorocctane	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  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorocctane	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	SU	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	107	100	107	70-135			
a-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	Control Limits %R	Flags		
Analytes			[D]				
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  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	106	100	106	70-135		
o-Terphenyl	50.2	50.0	100	70-135		

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

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

<sup>\*\*\*</sup> Poor recoveries due to dilution





Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708283

Sample: 292422-014 / SMP

Batch:

Matrix: Soil

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

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

<sup>\*\*\*</sup> Poor recoveries due to dilution





Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708283

Sample: 292422-018 / SMP

Batch:

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution





Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Project ID: Eddy County, NM

Lab Batch #: 708283

Sample: 501342-1-BKS/BKS

Batch:

Matrix: Solid

Units: mg/kg	SU	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
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	SU	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]	1				
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		SU	SURROGATE RECOVERY STUDY						
	TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Cl	hlorooctane	102	100	102	70-135				
o-Te	erphenyl	48.1	50.0	96	70-135				

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



### **Blank Spike Recovery**



Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Project ID:

Eddy County, NM

75-125

Lab Batch #: 707980

Sample: 707980-1-BKS

Matrix: Solid

Date Analyzed: 11/06/2007

Total Chloride by EPA 325.3

Analytes

Date Prepared: 11/06/2007

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1	BLANK /BLANK SPIKE RECOVERY STUDY				
Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags

93.6

Lab Batch #: 707981

Sample: 707981-1-BKS

ND

Matrix: Solid

Date Analyzed: 11/07/2007

Date Prepared: 11/07/2007

Analyst: LATCOR

Reporting Units: mg/kg

Chloride

100

RLANK /RLANK SPIKE RECOVERY STUDY

Reporting Outes: tilging Daten #;		BLAIR BLAIR STIKE RECOVERS STUDY				
Total Chloride by EPA 325.3	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R {D}	%R	
Chloride	ND	100	97.8	98	75-125	



#### **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:

Units: mg/kg		BLAN	K/BLANK	SPIKE / E	LANK S	PIKE DUPI	ACATE 1	RECOVE	EKY SIUD	Υ	
TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[ <b>D</b> ]	[E]	Result [F]	[G]				
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		BLAN.	K/BLANK S	SPIKE / B	LANK S	PIKE DUPI	ICATE 1	RECOVI	RY STUD	Y	
TPH by SW8015 Mod Analytes	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
,					,						
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\*|(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



#### 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		BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	ICATE 1	RECOVE	RY STUD	Y	
TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	842	84	1000	791	79	б	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

Project ID: Eddy County, NM

Date Analyzed: 11/10/2007

Date Prepared: 11/09/2007

Analyst: SHE

QC- Sample ID: 292422-014 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MAT	RIX / MA	TRIX SPIKE	RECO	VERY STU	JDY
TPH by SW8015 Mod  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1050	791	75	70-135	
C12-C28 Diesel Range Hydrocarbons	22.6	1050	810	75	70-135	



#### 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 #:

Matrix: Soil

Date Analyzed: 11/08/2007

Date Prepared: 11/07/2007

Analyst: SHE

Reporting Units: mg/kg		N	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1200	1050	88	1200	1090	91	3	70-135	35	
C12-C28 Diesel Range Hydrocarbous	21.2	1200	1030	84	1200	1080	88	5	70-135	35	

Lab Batch ID: 707980

QC-Sample ID: 292422-001 S

Batch #:

Matrix: Soil

Date Analyzed: 11/06/2007

Date Prepared: 11/06/2007

Analyst: 1RO

Reporting Units: mg/kg		IM	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Total Chloride by EPA 325.3	Parent Sample Result	Spike Added	Spiked Sample Result	Spiked Sample %R		Duplicate Spiked Sample Result (F)	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[C]	[D]	(E)	Result [F]	[G]	70	7613	78KFD	
Chloride	213	10000	10600	104	10000	10600	104	0	75-125	30	

Lab Batch ID: 707981

QC- Sample ID: 292422-021 S

Batch #:

Matrix: Soil

Date Analyzed: 11/07/2007

Date Prepared: 11/07/2007

Analyst: LATCOR

Reporting Units: mg/kg		M	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY S	STUDY		
Total Chloride by EPA 325.3	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	42.5	1000	947	90	1000	968	93	3	75-125	30	



## Sample Duplicate Recovery



Project Name: Yates Energy; Yates State Lease

Work Order #: 292422

Lab Batch #: 707959

Project ID: Eddy County, NM

Date Prepared: 11/06/2007 Date Analyzed: 11/06/2007

Analyst: RBA

QC-Sample ID: 292485-004 D

Batch #:

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	9.67	6.67	37	20	F

Lab Batch #: 707972

Date Analyzed: 11/05/2007

Date Prepared: 11/05/2007

Analyst: RBA

QC- Sample ID: 292375-001 D

Batch #:

Matrix: Soil

Reporting Units: % SAMPLE / SAMPLE DUPLICATE RECOVERY Sample Control **Percent Moisture** Parent Sample Duplicate RPD Limits Result Flag %RPD Result [A] B Analyte

Lab Batch #: 707983

Percent Moisture

Date Analyzed: 11/05/2007

Date Prepared: 11/05/2007

Analyst: RBA

20

F

QC-Sample ID: 292422-016 D

Batch #: 1

1.24

1.56

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	9.67	8.93	8	20	

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

A Xenco Laboratories Company

12600 West I-20 East Odessa, Texas 79765

	Project Manager.	Dobl S. Smith, ME.	REPA I	nviro	nmental Cons	ultant									_	Pro	ject	Nam	e:		Yatı	es E	nerg	y; Y	ates	Stat	e Lea	ise	
	Company Name	O'Briant and Assoc	iates, In	c. dbs	Sport Enviror	mental Service	13								_								Eddy	/ Co	unty	, NM			
	Company Address:	506 N. Big Spring	Street,	Suite :	303										_	P	rojec	e Lo	c: _										
	City/State/Zip:	Midland, TX 7970	1												_			PO	#:										
	Telephone No:	(432) 683-1100				Fax No:		(43:	2) 68	12.60	03					noqu	For	mate	-	] st		rri		Пт	RRF	<del></del>	П	NPDE	 s
	Sampler Signature:				····	-	-								-	•		1144	•	-1 UI	31743			، ب	17174				•
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(lab use	ممالية من	١, ١,٠													.,	,				TCLP								48, 72 hrs	
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# (lab usa only)	Y					<u>\$</u>									Si «Studge	Se StallSoft specify Other	1 1	200 X	₽ .	I I I	Metals: As Ag Ba Cd Cr Pa Hg Se		1	BTEX 80218/5030 or BTEX 8280				RUSH TAT (Pro-Schedule)	
10 051			Depth	Ę	쿌	) paid		TairVers							ਲ ਤੋ		ğ	-	B. Na, ro	EC L	Bag			930				89.68	
q q	}		ոլոց	g Depth	Date Sampled	Time Sampled (TX)	phia	Con			1		اج	Snear	thing Wa	Potable	418.5	X 1005		SPIC	As Ag		lanles	02 1 B.K	١,	اير		¥	F
LAB #	FIEL	CODE	Beginning Depth	Ending	Date	Fig.	iold Filtered	rotal #. al Con	8 2	<u> </u>	S.	NBOH	Nn,S,O3	None Other (Specify)	DVP-Drinking Water	GW = Graund-water NP=Hen-Pateble (		H	Catlons (Ca. Mg.	SAR / ESP / CEC	detals:	Volaties	Serrivolables	ž į		N C.H PI		155	Standard TAT
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10	<b>I</b> 9		18		11/2/2007	11.45A		1								s	x			x							$\square$		X
Special		invoices should be sent to." 505 N. Big Spring Street, St				Enant and Assot	iates	, Inc	dba	Spor	rt Env	roni	menta	il Serv	ices			- 1	Sàm	rator ple C	onta	ners	Inta	ci?	z meg i gi stikur i	Will He	<b>V</b>	, N	
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#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

A Xenco Laboratories Company

12600 West I-20 East Odessa, Texas 79765

	Project Manager:	Debi S. Smith, M	, REPA	Enviro	nmental Const	uitant										P	rojec	Nar	ne:		Υa	tes F	Ener	ngy;	Yate	es 5	tate	Leas	e	
	Company Name	O'Briant and Asso	ciates, ir	nc. dba	Sport Enviran	mental Service	8												_				Ed	dy C	oun	nty, M	NM			<u> </u>
	Company Address:	605 N. Big Sprin	Street,	Suite :	303												Proje	ect L	oc:_											
	City/State/Zip:	Midland, TX 797	01															PC	) #:_											
	Telephone No:	(432) 683-1100				Fax No:		(432	2) 68	3-5	903					Repo	ort Fo	rmat	t <b>:</b>		Stand	lard			TRE	RP.	1	☐ NF	PDES	3
	Sampler Signature:					- e-mail:	_				nme	ntaí	<i>ര</i> പദ	virele	 SS.	cam ·														
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

A Xenco Laboratories Company

12600 West 1-20 East Odessa, Texas 79765

	Project Manager:	Debl S. Smith, ME	REPA	Enviro	mental Consu	ltant				_			,				Pro	jact	Nan	10:_		Ya	les i	Ener	гду;	Yate	9 <b>5</b> S	tate	Leas	9	
	Company Name	O'Briant and Asso	ciates, Ir	ıc. dba	Sport Environ	mental Service	3													_				Ed	dy C	oun	ity, l	NM			
	Company Address:	505 N. Big Spring	Street,	Suite :	103	·											F	roje	ct Le	oc:_											
	City/State/Zip:	Midland, TX 7970	21																PO	<b>#</b> :_											
	Telephone No:	(432) 683-1100				Fax No:		(4:	32) 6	83-	5903					R	apor	l Far	mat	.	□s	tand	ard			TRE	RP	ſ	NP	•DES	
	Sampler Signature:					e-mail;		5p	orte	nvir	onn	ent	al@t3	wind	less	.com	1														
(lab use	only)					•				,							_	F	_		TCI		Anaty	yze F	or.				$\overline{}$	Ţ.]	
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LAB# (lab use only).		D CODE	Beginning Dapth	Ending Dopth	Date Sampled	Time Sampled (TX)	Rold Filtered	fotal # of Confehers		6			NeOH Na.S.O3			ocores=15	GW = Graundwater S-Soll-Sold NPoNon Petable Specify Other	1	TPH. TX 1005 TX 1008	Cations (Ca, Mg, Na, K)	Anians (Cl. 504, Alkafinly)	SAR/ESP/CEC	Voletiles	Semivolatilos	01EX 60218/5030 or 0TEX 6260	HC!	NORM			e-Schwdule) 14,	Standard TAT
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Special		Invoices should be sent to 505 N. Big Spring Street, S				Bnant and Assoc	late	. In	c. db	a Sp	och E	invir	onmer	ntal S	lervio		S	1 X	<u> </u>	San	iole.	Con	aine	men rs in	lad'	上 (注: 7·:	Ų.	<b>لـــا</b> مورون	Y Y Y	L N N	gg e
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#### Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Client: 01 Briand : ASSUC.				
Date/ Time: 000 04 04 07 11/03/07 1/:4/				
Lab ID#: 292,422				
Initials: QNAA				
77004				
Sample Receipt	Checklist			Λ./
	1 7/	17.N	22.0 °C	Client Initials
#1 Temperature of container/ cooler?	Yes	(No	22.0	770
#2 Shipping container in good condition?	Yes,	No	N. A Managari	<del></del>
#3 Custody Seals intact on shipping container/ cooler?	Ves	No	Not Present	_ <del>//</del>
#4 Custody Seals intact on sample bottles/ container?	(Yes	No	Not Present	
#5 Chain of Custody present?	Yes	No		
#6 Sample instructions complete of Chain of Custody?	Yes	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8) Chain of Custody agrees with sample label(s)?	(Teg	(NO)	ID written on Cont./ Lid	0
#9 Container label(s) legible and Intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?		No		
#12 Samples in proper container/ bottle?	CYES _	No	See Below	<del></del>
#13 Samples properly preserved?	Yes.	No	See Below	
#14 Sample bottles intact?	(Yes	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	Œe's	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	7	No	Not Applicable	
#20 VOC samples have zero headspace?	رYes)	No	Not Applicable	
Variance Docum	nentation			
Contact: KW Contacted by: UM	Ne		Date/ Time:	
		٦. ا		·
Regaling: 48- GAMPLE #8 WWG NOT	rce	even		
Corrective Action Taken:				
	···			
Check all that Apply: See attached e-mail/ fax		,		
☐ Client understands and would ☐ Cooling process had begun s	•		•	

# Sample Data Summary

Yates Energy Corporation; Yates State Lease Eddy County, New Mexico

Project Name: Project Location:

1			遊戲	14.1	7.83	8 25	8	44	90	7.36	10.4	7.75	2
		Chloride (Cl) (mg/kg wet)	が変数と	1400	170	1020	468	277	287	234	723	1450	
	ERA 8015M (TPH), EPA 8024B (BTEX); SW.84619253 (C)	χλівиє (ο)											
	3W 846	χλjeue (b/ <u>ü</u> )	能強					T					
(S)	STEX)	EIŊŊŖĠIJĠŨĠ	新兴级					-					
Analytical Results	1021B (E	Iolnene	語を発				_	-					
ytical	) EPA E	Benzene	म्बर्गाहरू ज्ञान							ļ			
Anai	М СТРН			Q	10280	2	507	61.6	256.9	450	물	6586	
	A 8015	Total Hydrocarbons		Q		9		l	l		9		<u> </u>
	ods: EF	calpou Kandes 628-635 \$			1130		457		6.98			736	
	Methods	Calbon Ranges C10-C28		ON	7460	N	1050	36.4	170	283	2	4860	
		Garbon: Ranges C6-C10 (mg/kg dry)		N O	1690	S	2	2	D	2	Q N	066	
,*		Date:Received	24 1 1 2 1 2 1 1 2 1 1 2	9/19/2007 18:35	9/19/2007 18:35	9/19/2007 18:35	9/19/2007 18:35	9/19/2007 18:35	9/19/2007 18:35	9/19/2007 18:35	9/19/2007 18:35	9/19/2007 18:35	
		Date: Sampled		9/18/2007 0:00	9/18/2007 0:00	9/18/2007 0:00	9/18/2007 0:00	9/18/2007 0:00	9/18/2007 0:00	9/18/2007 0:00	9/18/2007 0:00	9/18/2007 0:00	
, , , , , , , , , , , , , , , , , , , ,	The second secon	apminion/japminia i	大道の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の										
	44, 75	Matin	発信器	Sail	Soil	Soil	Sail	Soll	Soil	Soil	Soil	Soil	
	一方のでは何いのかとなる。 これを成	<u>O O O O O O O O O O O O O O O O O O O </u>	mpling	289911-001	289911-002	289911-003	289911-004	289911-005	289911-006	289911-007	289911-008	289911-009	
	いい かんこう なん	Sar Sar Sar Sar Sar Sar Sar Sar Sar Sar	Trench Sampling	T-001	T-002	T-003	T-004	T-005	T-006	T-007	T-008	T-009	

# **Analytical Report 289911**

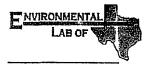
#### for

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

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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 Srvs.

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 Srvs., Midland, I

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 ln	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 ln	289911-009



#### Certificate of Analysis Summary 289911

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

Project Id:

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

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

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

Project Location:

Report Date: 25-SEP-07

								Project Mar	ager:	Brent Barron,	Ш		
	Lab Id:	289911-0	01	289911-0	02	289911-0	03	289911-0	04	289911-0	05	289911-00	16
Analysis Requested	Field Id:	T-001 (0	)')	T-002 (1	('נ	T-003 (20')		T-004 (30')		T-005 (4	('0	T-006 (40')	
Analysis Requesieu	Depth:	24- Tn	24- In		ļ	48- In	1	60- In		54- In		30- In	
	Matrix:	SOIL	SOIL		SOIL		İ	SOIL		SOIL		SOIL	
· -	Sampled:	Sep-18-07 (	Sep-18-07 00:00 S		0:00	Sep-18-07 0	0:00	Sep-18-07 0	00:00	Sep-18-07 (	00:00	Sep-18-07 0	0:00
Percent Moisture Extract		-											
	Analyzed:	Sep-20-07 10:30		Sep-20-07 I	0:30	Sep-20-07 1	0:30	Sep-20-07 I	0:30	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	4:33	Sep-20-07	4:33	Sep-20-07	4:33	Sep-20-07	14:33	Sep-20-07 1	4:33
2122 83 8 110012 11204	Analyzed:	Sep-20-07	19:12	Sep-20-07	9:39	Sep-20-07 2	20:05	Sep-20-07 2	20:32	Sep-24-07	13:21	Sep-21-07 0	8:51
	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	ИD	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:												
	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 I	1:00
	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 invinced for this work order unless otherwise agreed to in writing.

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Odessa Laboratory Director



#### Certificate of Analysis Summary 289911

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

Project Id:

Project Location:

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

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

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

Report Date: 25-SEP-07
Project Manager: Brent Barron II

								Project Manager:	Brent Barron, II	
	Lab Id:	289911-0	07	289911-0	80	289911-0	09			
Analysis Requested	Field Id:	T-007 (5	('0	T-008 (60	(יכ	T-009 (6	0')			
Anatysis Requested	Depth:	36- In	İ	24- In		42- In				
	Matrix:	SOIL	Ì	SOIL	1	SOIL				
	Sampled:	Sep-18-07 0	0:00	Sep-18-07 0	0:00	Sep-18-07 0	00:00			
Percent Moisture	Extracted:									
	Analyzed:	Sep-20-07 1	0:30	Sep-20-07 I	0:30	Sep-20-07 1	0:30			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		7.36	1.00	10.4	1.00	7.75	1.00		T	
TPH by SW8015 Mod	Extracted:	Sep-20-07	4:33	Sep-20-07 1	4:33	Sep-20-07 1	4:33			
1112 05 11 11 11 11 11 11 11 11 11 11 11 11 11	Analyzed:	Sep-21-07 (	9:18	Sep-21-07 0	9:47	Sep-24-07 1	3:49			
<u> </u>	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:									
Ana		Sep-20-07	1:00	Sep-20-07 1	1:00	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 warrunty to the end use of the data hereby presented. Our liability is limited to the amount involved for his work order unless otherwise agreed to in writing.

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Brent Barron Odessa Laboratory Director

# TENCO Laboratories

#### 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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9701 Harry Hines Bivd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(201) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(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:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
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	SU	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
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	Control Limits %R	Flags			
Analytes			[D]					
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	SU	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Coutrol Limits %R	Flags				
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  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctadecane	39.6	50,0	79	70-135				
I-Chlorocctane	45.9	50.0	92	70-135				

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B All results are based on MDL and validated for QC purposes.

<sup>\*\*\*</sup> Poor recoveries due to dilution



# 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:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorocetadecane	39.3	50.0	79	70-135				
1-Chloroctane	45.5	50.0	91	70-135				

Lab Batch #: 704889

Sample: 289911-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	RROGATE R	ECOVERY:	STUDY	
TPH by SW8015 Mod  Analytes  Chlorooctadecane	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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	SU	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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	SU	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-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	SU	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	37.1	50.0	74	70-135	
1-Chloroctane	42.9	50.0	86	70-135	

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.

<sup>\*\*\*</sup> Poor recoveries due to dilution



1

# 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:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY											
TPH by SW8015 Mod	Amount Found [A]	True Amouut [B]	Recovery %R	Coutrol Limits %R	Flags							
Analytes			[D]									
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	SU	RROGATE F	RECOVERY	STUDY	
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	42.2	50.0	84	70-135	
1-Chlorooctane	60.1	50.0	120	70-135	i

Lab Batch #: 704889

Sample: 499565-1-BLK / BLK

Batch: 1

Matrix: Solid

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

Surrogate Recovery [D] = 100 \* A / B

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



# **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

Departing Units: mg/kg

Analyst: SHE

Reporting Units: mg/kg	Batch #: 1	BLANK/BLANK SPIKE RECOVERY STUD											
TPH by SW8015 Mod	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags							
Analytes	[A]	[B]	Result [C]	%R [D]	%R								
C6-C12 Gasoline Range Hydrocarbons	ND	500	522	104	70-135								
C12-C28 Diesel Range Hydrocarbons	ND	500	360	72	70-135								



## 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 #:

Matrix: Soil

Date Analyzed: 09/24/2007

Date Prepared: 09/20/2007

Analyst: SHE

Reporting Units: mg/kg		M	ATRIX SPIK	E/MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
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	



# Sample Duplicate Recovery

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

Work Order #: 289911

Lab Batch #: 704725 Date Analyzed: 09/20/2007 Project ID:

Date Prepared: 09/20/2007

Analyst: RBA

QC-Sample ID: 289911-001 D

Batch #:

Matrix: Soil

Reporting	Units:	%
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SAMPLE / SAMP	TO DESTRUCT TO A SPECIAL	DECOMBBY
1 DAMELE / DAME	LE DUPLICATE	RECOVERY
1		

Percent Moisture	Parent Sample			Control	O / BICK
1 El Cont Moistair C	Result [A]	Duplicate Result	RPD	Limits %RPD	Flag
Analyte		[B]		į	
Percent Moisture	14.1	15.3	8	20	

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
500 West I-20 East
Phone: 432-563-1800

12600 West I-20 East Odessa, Texas 79765

	Project Manager:	Debi S. Smitt	1, ME. REPA	Enviro	nmental Consul	tant								_				Pro	ject	Nan	1e:_		<u> Y</u>	ates	s Er	<u>ierç</u>	∃A! ,	Yate	as S	tate	Leas	se	
	Company Name	O'Briant and A	Associates, II	ıc. dba	Sport Environn	nental Servico	3									-					-					rer	1 <b>ch</b>	Sar	npli	ng			
	Company Address:	505 N. Blg Sp	ıring Street,	Sulte :	303				_									P	roje	ct L	oc:_												
	City/State/Zip:	Midland, TX	79701																	PO													
	Telephone No:	(432) 683-110	10			Fax No:		(4	32)	683-	590	3					Re	port	For	mat			Stan	dare	j			TRF	₹P		N	PDE!	s
	Sampler Signature:					e-mail;		81	ort	envi	ron	ment	al@	13w	ireis	 355.	com																
0.1								<u></u>										-			_			Ana	ilyze	e Fo	ar;	_				T	]
(lab use i	20.000							bees											-			TOT		+	$\dashv$	+	긕	. }	. \	- }	1	48, 72 hrs	1
ORDEF	1#: 20.7911			<del> </del>	1			ñ		Prese	rvati	ion & t	ol C	onlai	ners	$\Box$	Ма	rix	58			T	7	8	7		9					15	L
LAB # (lab use only)	FIELD (	CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled (TX)	Fleid Filtered	Total # of Containers Ziolu	tce	HNO,	HCI	н,50,	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specity)	DWs-Droking Water SL=Skidge GW = Groundwater S=SouEciti		418.1 (BD15M) BD1	TPH. TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl. 504. Alkalinity)	SAR / ESP / CEC	s Ag Ba Cd Cr Pb Hg	Volatites	Semivolatiles	BTEX 80218/5030 or BTEX 8260	RGI	N.O.R M.			RUSH TAT (Pra-Schadule) 24,	Standard TAT
-001	T-001 (0')	<del></del>	24"	-	9/18/2007		-	1							x	7	<u></u>		x			x	Ť	1	7	$\dashv$	$\exists$					T	x
-502	T-002 (10')		30"		9/18/2007			1	Γ			П			1		s	3	x			x	T		1						$\perp$	$\mathbf{I}$	х
<b>∞</b> 3	T-003 (20')		48"		9/18/2007		T	1	Г				7	1	П		9	1	х			x	T		$\Box$								х
CON	T-004 (30')		60"		9/18/2007		Γ	1									٤	 }	х			x	$\Box$		$\prod$								x
005	T-005 (40')		54"		9/18/2007			1		Π							8	3	х		}	x	T									$\perp$	x
مكل	T-006 (40')		30"		9/18/2007			1		Π					$\prod$		s	3	х			X										$\perp$	х
<b>∞</b> 1	T-007 (50')		36"		9/18/2007			1	Γ						$\prod$		S	 }	х			x											x
ගුර	T-008 (60')		24"		9/18/2007			1	Γ	Π								3	х			X										$\perp$	x
OCF)	T-009 (60')		42"		9/18/2007			1		L					,		5	3	х			x									$\perp$	$\perp$	x
Special	nstructions: (a)	voices shou'd be se	nt to Yales E	ergy C	orporation cto OB	&A dba Scot Er	14:70	nme	latre	I Ser	VICE	s									Lab	orat	ory	Cor	nmı	ente	3:						긔
·		iā N. Big Spring Stre			,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,																•	Con								(Y)	N	٠
Relinquis \- Relinquis	Zia S. Suite.	9/14	55 at 25	me P~	Received by:											Dat		T	Time		Lab Cus Cus San	els c tody tody note	sea sea sea Han	onta ils o ils o id D	iner in co in co	(B) ontai oolei <del>ore</del> d	r(6) 1 20. ?	tten (s)		bas (	* * * * * * * * * * * * * * * * * * *	N	
Relinquis	hed by:	De	ite T	me	Regived by ELC	The state of the s	7								9	Dai	le V	76	Timi								eipt:		-	, eu		Z.°C	

Variance/ Corrective Action Report- Sample Log-In

	Valiance Conceile Action Nep	ort- Garrip	ne rog-m		
Client:	O'Briant ; Associates				
Date/ Time:	09-14-07 @ 1835				
Lab ID#:	2617 i				
Initials:	JMF				
-	Sample Receipt 0	Checklist			
					Client Initials
	ture of container/ cooler?	(Yes)	No	2Z°C	
	container in good condition? Graves, प्राप्	Yes	No	· · · · · · · · · · · · · · · · · · ·	
#3 Custody Seals intact on shipping container/ cooler?		Yes	No	Not Present(NA)	
#4 Custody Seals intact on sample bottles/ container?		Yes	No	(Not Present)	
#5 Chain of Custody present?		(Yes)	No		
	nstructions complete of Chain of Custody?	Yes	(√oV)	NAME THAT METERS	112
	Custody signed when relinquished/ received?	(Yes)	No		
	Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
	r label(s) legible and intact?	Yes	No	dVot Applicable	
	matrix/ properties agree with Chain of Custody?	Yes	No		
#11 Containe	ers supplied by ELOT?	Yes	(No)		
#12 Samples	s in proper container/ bottle?	Yes	(No)	See Below	
#13 Samples	s properly preserved?	Yes	Mo	See Below	D/58.
#14 Sample	bottles intact? کورے	(Yes)	No		
	ations documented on Chain of Custody?	(Yes)	No		
	ers documented on Chain of Custody?	Yes	No		
	at sample amount for indicated test(s)?	(Yes)	No	See Below	
	eles received within sufficient hold time?	Yes	No	See Below	
#19 Subcontract of sample(s)?		Yes	No	(Not Applicable)	<del></del>
#20 VOC samples have zero headspace?		Yes	(No)	Not Applicable	<del> </del>
Variance Documentation					
Contact: Debbie Similar Contacted by: Brent Barren Date/Time: 1907@1639					
Regarding;	proper sample preservation	meihoo	HYTT H	EXIEM, And C	Tonly
Corrective Act	ion Taken:		· · · · · · · · · · · · · · · · · · ·	**************************************	-
				-	
		•	·		
Check all that	Apply: See attached e-mail/ fax  Client understands and would	like to proc	ood with a	analysia Analysia	
	Cooling process had begun sh				