MARTIN YATES, III

FRANK W. YATES



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (505) 748-1471

S.P. YATES

JOHN A. YATES

PEYTON YATES

FRANK YATES, JR.

JOHN A. YATES, JR.

December 11, 2006

Mr. Larry Johnson NMOCD District 1 1625 N. French Drive Hobbs, NM 88240

Re: Merle State Unit 3 30-025-37545 Section 14, Township 10S, Range 34E Lea County, New Mexico



Mr. Larry Johnson,

This letter is in response to the return of the enclosed C-141 marked "Final Report" and the Analytical Reports for the Merle State #3 which were submitted by Sherry Bonham, Environmental Regulatory Agent for Yates Petroleum Corporation and stamped received by your office November 28, 2006.

The C-141 marked as <u>Final Report</u> had two "sticky notes" attached to it. One large green one signed by Pat Caperton to Sherry which asked her to refer to the notes on each enclosure and that "Larry will not approve until paperwork is updated with the information he has asked for". The other "sticky note" had on it: 1 Chlorides to Disposal(impacted soil) Not Landfarm 2 Tables Required for analysis.

It is unclear what is implied by these notes. The C-141 states that the impacted materials were hauled to a land farm. I believe that this is still an NMOCD accepted method of disposal.

The "sticky note" asking for tables of analysis is unclear also. The enclosed analytical reports prepared for Yates Petroleum by Environmental Lab of Texas clearly show the

RANDY G. PATTERSON

DAVID L. LANNING

DENNIS G. KINSEY
TREASURER

1RP-1091

PPAC0429232002

results of sampling performed at the Merle site on 11-7-2006. These reports reflect the levels of BTEX and TPH for the site as required. The other enclosed report prepared by Environmental Lab of Texas clearly reflects the chloride levels at the site as per your request for documentation.

Yates feels strongly that the information furnished to you contains all the elements required for you to make an informed decision for the closure of this site.

If you have any further concerns about this matter please feel free to email, call or write me.

Sincerely.

Jerry D. Fanning, Jr.

Environmental Coordinator Yates Petroleum Corporation

(505)748-4195

jerryf@ypcnm.com

Cc: Lisa Norton, Environmental Director YPC

Wayne Price, NMOCD

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos 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. Revised October 10, 2003

Form C-141

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

Release Notification and Corrective Action 16 17 18 19 20 Initial Report 910117275 Final Report Name of Company OGRID Number Contact YATES PETROLEUM CORPORATION 25575 SHERRY BONHAM Address Telephone No. 105 S 4TH STREET 505.748.1471 Facility Name API Number Facility Type MERLE STATE UNIT 3 30-025-37545 WELL Surface Owner Mineral Owner STATE STATE LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 14 108 34F 990 SOUTH 990 EAST LEA Latitude 33.44253 Longitude 103.42887 NATURE OF RELEASE Type of Release Volume of Release Volume Recovered CRUDE OIL 10 B/O 8 B/O Source of Release Date and Hour of Occurrence Date and Hour of Discovery WATER TANK 10/4/06 7:00 AM 10/4/06 7:00 AM Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour N/A N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.\* N/A Describe Cause of Problem and Remedial Action Taken.\* WELL TESTER (3 PHASE SEPARATOR) MALFUNCTIONED PUTTING OIL PRODUCTION TO WATER TANK, REPAIRED. Describe Area Affected and Cleanup Action Taken.\* AN APPROXIMATE 25' X 25' X 2" AREA AFFECTED. PICKED UP ALL STANDING FLUIDS. IMMEDIATELY SCRAPED UP IMPACTED MATERIALS AND HAULED TO LAND FARM. SITE TO BE EVALUATED. SITE RANKING: 20 REQUESTING CLOSURE TO INCIDENT. FINAL REPORT. SEE ATTACHED ANALYSES. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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. OIL CONSERVATION DIVISION Signatura Approved by District Supervisor: Printed Name: Sherry Bonham Title: Environmental Regulatory Agent Approval Date: Expiration Date: E-mail Address: sherryb@ypcnm.com Conditions of Approval: Attached

Phone: 505.748.1471

Date: November 27, 2006

<sup>\*</sup> Attach Additional Sheets If Necessary



# Analytical Report

## Prepared for:

Ron Rounsaville
Talon LPE
9 East Industrial Loop
Midland, TX 79701



Project: Yates- Merle Unit #3
Project Number: YATESP027SPL
Location: Cross Roads, NM

Lab Order Number: 6K08002

Report Date: 11/15/06

9 East Industrial Loop Midland TX, 79701 Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

### ANALYTICAL REPORT FOR SAMPLES

ample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1 3-4	6K08002-01	Soil	11/07/06 09:15	11-08-2006 09:30
B-1 6-7	6K08002-02	Soil	11/07/06 09:20	11-08-2006 09:30
3-2 3-4	6K08002-03	Soil	11/07/06 09:30	11-08-2006 09:30
3-2 6-7	6K08002-04	Soil	11/07/06 09:35	11-08-2006 09:30
8-3 2.5-3.5	6K08002-05	Soil	11/07/06 09:40	11-08-2006 09:30
3-3 5-6	6K08002-06	Soil	11/07/06 09:45	11-08-2006 09:30
3-4 1-2	6K08002-07	Soil	11/07/06 09:52	11-08-2006 09:30
3-4 5-6	6K08002-08	Soil	11/07/06 09:55	11-08-2006 09:30
3-5 3-4	6K08002-09	Soil	11/07/06 10:08	11-08-2006 09:30
3-5 5-6	6K08002-10	Soil	11/07/06 10:12	11-08-2006 09:30
3-6 2-3	6K08002-11	Soil	11/07/06 10:18	11-08-2006 09:30
3-6 5-6	6K08002-12	Soil	11/07/06 10:24	11-08-2006 09:30
3-7 3-4	6K08002-13	Soil	11/07/06 10:35	11-08-2006 09:30
3-7 5-6	6K08002-14	Soil	11/07/06 10:40	11-08-2006 09:30
3-8 2-3	6K08002-15	Soil	11/07/06 11:02	11-08-2006 09:30
3-8 5-6	6K08002-16	Soil	11/07/06 11:06	11-08-2006 09:30
3-9 2-3	6K08002-17	Soil	11/07/06 11:21	11-08-2006 09:30
3-9 5-6	6K08002-18	Soil	11/07/06 11:24	11-08-2006 09:30
3-10 2.5-3.0	6K08002-19	Soil	11/07/06 11:49	11-08-2006 09:30

Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-1 3-4 (6K08002-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/10/06	EPA 8021B	
Toluene	ND	0.0250					*		
Ethylbenzene	ND	0.0250		*		*			
Xylene (p/m)	ND	0.0250							
Xylene (o)	ND	0.0250		*					
Surrogate: a,a,a-Trifluorotoluene		80.2 %	80-12	0	"	"	ar	**	
Surrogate: 4-Bromofluorobenzene		84.0 %	80-12	0	**	"	**	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	*						
Total Carbon Range C6-C28	ND	10.0							
Surrogate: 1-Chlorooctane		95.8 %	70-13	0	"	**	**	**	
Surrogate: 1-Chlorooctadecane		116%	70-13	0	"	**	**	**	
SB-1 6-7 (6K08002-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/10/06	EPA 8021B	
Toluene	ND	0.0250	*	*					
Ethylbenzene	ND	0.0250		*	*				
Xylene (p/m)	ND	0.0250	*		*				
Xylene (o)	ND	0.0250							
Surrogate: a,a,a-Trifluorotoluene		80.2 %	80-12	0		"	"	*	
Surrogate: 4-Bromosluorobenzene		86.5 %	80-12	0	**	**	**	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0					*		
Total Carbon Range C6-C28	ND	10.0					*		
Surrogate: 1-Chlorooctane		102 %	70-13	0	**	**	н	**	
Surrogate: 1-Chlorooctadecane		118%	70-13	0	**	"	*	"	
SB-2 3-4 (6K08002-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250			*		*		
Xylene (p/m)	ND	0.0250							
Xylene (o)	ND	0.0250							
Surrogate: a,a,a-Trifluorotoluene		84.5 %	80-12	9	**	**	*	*	
Surrogate: 4-Bromofluorobenzene		103 %	80-120	9	**		**	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0							
Total Carbon Range C6-C28	ND	10.0						*	

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Project: Yates- Merle Unit #3 Number: YATESP027SPL

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 3-4 (6K08002-03) Soil								,	
Surrogate: 1-Chlorooctane		109 %	70-13	80	EK60813	11/08/06	11/08/06	EPA 8015B	
Surrogate: 1-Chlorooctadecane		125 %	70-13	80	"		"	**	
SB-2 6-7 (6K08002-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Xylene (p/m)	ND	0.0250							
Xylene (o)	ND	0.0250							
Surrogate: a,a,a-Trifluorotoluene		85.0 %	80-12	0	"	**	**	**	
Surrogate: 4-Bromofluorobenzene		102 %	80-12	0	**	**	*		
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0							
Total Carbon Range C6-C28	ND	10.0							
Surrogate: 1-Chlorooctane		114 %	70-13	10	**	"	u	"	
Surrogate: 1-Chlorooctadecane		129 %	70-13	0	**	**	**	"	
SB-3 2.5-3.5 (6K08002-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250	*					*	
Ethylbenzene	ND	0.0250		*					
Xylene (p/m)	ND	0.0250							
Xylene (o)	ND	0.0250				*			
Surrogate: a,a,a-Trifluorotoluene		84.8 %	80-12	0	**	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	80-12	0	**	"	**	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0				*			
Total Carbon Range C6-C28	ND	10.0				*		*	
Surrogate: 1-Chlorooctane		106 %	70-13	0	"	и	н	**	
Surrogate: 1-Chlorooctadecane		121 %	70-13	0	**	24	. 01	**	

Project: Yates- Merle Unit #3
Project Number: YATESP027SPL

Fax: (432) 522-2180

Project Number: YATESP027SPL Project Manager: Ron Rounsaville

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dibata	Datab	Drawers	Anchorad	Math - 1	Mar
SB-3 5-6 (6K08002-06) Soil	Result	Link	Onis	Dilution	Batch	Prepared	Analyzed	Method	Not
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250	mg/ag dry	#	15/00/14	11/09/00	11/09/06	BIA 0021B	
Ethylbenzene	ND	0.0250							
Xylene (p/m)	ND	0.0250							
Xylene (p)	ND	0.0250							
Surrogate: a,a,a-Trifluorotoluene	ND	81.2 %	80-	120	"	**	**	"	
Surrogate: 4-Bromofluorobenzene		84.0 %	80-		**	**	**	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0					*		
Total Carbon Range C6-C28	ND	10.0							
Surrogate: 1-Chlorooctane		104 %	70-	130	**	,,	"	"	
Surrogate: 1-Chlorooctadecane		121 %	70-		,,	**	**	**	
our ogue, i conoroscuacouno									
SB-4 1-2 (6K08002-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250	*		*		*	*	
Ethylbenzene	ND	0.0250			*		*		
Xylene (p/m)	ND	0.0250				*	*	*	
Xylene (o)	ND	0.0250			*				
Surrogate: a,a,a-Trifluorotoluene		86.2 %	80-1	120	,,	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	80-1	120	**	**	"	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0				*			
Total Carbon Range C6-C28	ND	10.0			•	*	*		
Surrogate: 1-Chlorooctane		101 %	70-1	130		**	ar	**	
Surrogate: 1-Chlorooctadecane		116%	70-1	130	**	**	**	**	
SB-4 5-6 (6K08002-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250	*					*	
Ethylbenzene	ND	0.0250			*				
Xylene (p/m)	ND	0.0250		*					
Xylene (o)	ND	0.0250			*				
Surrogate: a,a,a-Trifluorotoluene		86.0 %	80-1	20	ar	**	"	**	
Surrogate: 4-Bromofluorobenzene		87.8 %	80-1	20	**	**		**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	*						
Total Carbon Range C6-C28	ND	10.0							

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9 East Industrial Loop Midland TX, 79701 Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## Organics by GC Environmental Lab of Texas

Analysis	Result	Reporting Limit	Their			_			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-4 5-6 (6K08002-08) Soil									
Surrogate: 1-Chlorooctane		101 %	70-13	9	EK60813	11/08/06	11/08/06	EPA 8015B	
Surrogate: 1-Chlorooctadecane		116 %	70-13	9		"	**	"	
SB-5 3-4 (6K08002-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250		*	•				
Ethylbenzene	ND	0.0250							
Xylene (p/m)	ND	0.0250		*	*			*	
Xylene (o)	ND	0.0250							
Surrogate: a,a,a-Trifluorotoluene		90.2 %	80-120	)	"	er	**	ar :	
Surrogate: 4-Bromofluorobenzene		90.5 %	80-120	9	**	**	**		
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0			*	*			
Total Carbon Range C6-C28	ND	10.0							
Surrogate: 1-Chlorooctane		95.0 %	70-130	)	"	"	**	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130	2	"	"	**	"	
SB-5 5-6 (6K08002-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250	*	=	*	*		*	
Xylene (p/m)	ND	0.0250							
Xylene (o)	ND	0.0250		•					
Surrogate: a,a,a-Trifluorotoluene		81.8 %	80-120	)	"	**	**	*	
Surrogate: 4-Bromofluorobenzene		96.5 %	80-120	)	**	**	**	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	23.5	10.0		*		*	*		
Total Carbon Range C6-C28	23.5	10.0			*				
Surrogate: 1-Chlorooctane		108 %	70-130	)	"	"	"	**	
Surrogate: 1-Chlorooctadecane		124 %	70-130	)	"	**	**	"	

Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-6 2-3 (6K08002-11) Soil									
Benzene	J [0.0204]	0.0250	mg/kg dry	25	EK60914	11/09/06	11/10/06	EPA 8021B	
Toluene	0.0694	0.0250	*						
Ethylbenzene	J [0.0241]	0.0250	*			*	*		
Xylene (p/m)	0.0709	0.0250	*					,	
Xylene (o)	0.0255	0.0250	*	•					
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-1	20	"	"	"	"	
Surrogale: 4-Bromosluorobenzene		91.5 %	80-1	20	**	**	**	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0		*				*	
Total Carbon Range C6-C28	ND	10.0							
Surrogate: 1-Chlorooctane		107 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		125 %	70-1	30	**	**	**	**	
SB-6 5-6 (6K08002-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/10/06	EPA 8021B	
Toluene	ND	0.0250					*		
Ethylbenzene	ND	0.0250	*				*		
Xylene (p/m)	ND	0.0250			*		*		
Xylene (o)	ND	0.0250	*	*				,	
Surrogate: a,a,a-Trifluorotoluene		82.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-1	20	**	**	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0		*	*			•	
Total Carbon Range C6-C28	ND	10.0		*	*				
Surrogate: 1-Chlorooctane		108 %	70-1	30	**	"	"	#	
Surrogate: 1-Chlorooctadecane		123 %	70-1	30	"	**	"	"	
SB-7 3-4 (6K08002-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250	*	*	*				
Ethylbenzene	ND	0.0250	*	*			*	*	
Kylene (p/m)	ND	0.0250	*	*			*	•	
Kylene (o)	ND	0.0250	•	*			*	*	
Surrogate: a,a,a-Trifluorotoluene		82.0 %	80-1	20	H	28	#	n	
Surrogate: 4-Bromofluorobenzene		91.0 %	80-1	20		**	. 11	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/08/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0				*			
Total Carbon Range C6-C28	ND	10.0							

Environmental Lab of Texas

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Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-7 3-4 (6K08002-13) Soil									
Surrogate: 1-Chlorooctane		106 %	70-1	30	EK60813	11/08/06	11/08/06	EPA 8015B	
Surrogate: 1-Chlorooctadecane		121 %	70-1.	30	**	**	**	*	
SB-7 5-6 (6K08002-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/10/06	EPA 8021B	
Toluene	ND	0.0250						*	
Ethylbenzene	ND	0.0250					*		
Xylene (p/m)	ND	0.0250						*	
Xylene (o)	ND	0.0250							
Surrogate: a,a,a-Trifluorotoluene		84.2 %	80-12	20	**	"	27	AP	
Surrogate: 4-Bromofluorobenzene		95.5 %	80-1	20	**		**	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/09/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0							
Total Carbon Range C6-C28	ND	10.0			•				
Surrogate: 1-Chlorooctane		104 %	70-1.	30	"	"	#	**	
Surrogate: 1-Chlorooctadecane		118 %	70-1.	30	"	"	**	*	
SB-8 2-3 (6K08002-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/09/06	EPA 8021B	
Toluene	ND	0.0250					*		
Ethylbenzene	ND	0.0250		*	*				
Xylene (p/m)	ND	0.0250				*			
Xylene (o)	ND	0.0250							
Surrogate: a,a,a-Trifluorotoluene		86.2 %	80-12	20	,,	**	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-12	20	**	**	**	**	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/09/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0				,	*		
Total Carbon Range C6-C28	ND	10.0		*				*	
Surrogate: 1-Chlorooctane		100 %	70-1.	30	**	"	,,	n	
Surrogate: 1-Chlorooctadecane		114%	70-1.	30	**	**	**	25	

Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville

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## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-8 5-6 (6K08002-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK60914	11/09/06	11/10/06	EPA 8021B	
Toluene	ND	0.0250				*			
Ethylbenzene	ND	0.0250			*	*			
Xylene (p/m)	ND	0.0250				*			
Xylene (o)	ND	0.0250		*	*		*	*	
Surrogate: a,a,a-Trifluorotoluene		94.0 %	80-1	20	**	**	**	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	80-1	20	**	**	**		
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/09/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	*		*				
Total Carbon Range C6-C28	ND	10.0							
Surrogate: 1-Chlorooctane		103 %	70-1	30	er	"	**	"	
Surrogate: 1-Chlorooctadecane		117%	70-1	30	"	**	**	"	
SB-9 2-3 (6K08002-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK61101	11/11/06	11/11/06	EPA 8021B	
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250		*					
Xylene (p/m)	ND	0.0250			*				
Xylene (o)	ND	0.0250		*		*		•	
Surrogate: a,a,a-Trifluorotoluene		93.2 %	80-1.	20	#	**	20	#	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-1.	20	**	"	M		
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/09/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0							
Total Carbon Range C6-C28	ND	10.0	•						
Surrogate: 1-Chlorooctane		101 %	70-1	30	**	"	27	**	
Surrogate: 1-Chlorooctadecane		114 %	70-1.	30	-	"	"	**	
SB-9 5-6 (6K08002-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK61101	11/11/06	11/11/06	EPA 8021B	
Toluene	ND	0.0250	*		*				
Ethylbenzene	ND	0.0250		*					
Xylene (p/m)	ND	0.0250							
Xylene (o)	ND	0.0250	•	,		•	•	•	
Surrogate: a,a,a-Trifluorotoluene		83.0 %	80-1	20	"	46	er	и	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-1	20	27	**	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/09/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0		*	*				
Total Carbon Range C6-C28	ND	10.0			-				

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-9 5-6 (6K08002-18) Soil									
Surrogate: 1-Chlorooctane		103 %	70-13	80	EK60813	11/08/06	11/09/06	EPA 8015B	
Surrogate: 1-Chlorooctadecane		117 %	70-13	10	**	**	**	**	
SB-10 2.5-3.0 (6K08002-19) Soil									
Benzene	J [0.0116]	0.0250	mg/kg dry	25	EK61101	11/11/06	11/13/06	EPA 8021B	
Toluene	J [0.0213]	0.0250						*	
Ethylbenzene	ND	0.0250		-	-				
Xylene (p/m)	0.0350	0.0250						•	
Xylene (o)	J [0.0220]	0.0250			*				
Surrogate: a,a,a-Trifluorotoluene		81.0 %	80-12	0	**	**	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-12	0	**	**	**	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EK60813	11/08/06	11/09/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0							
Total Carbon Range C6-C28	ND	10.0	*			*			
Surrogate: 1-Chlorooctane		106 %	70-13	0	**	"	**	"	
Surrogate: 1-Chlorooctadecane		118%	70-13	0	**	**	**	**	

Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 3-4 (6K08002-01) Soil			V			-	-		
% Moisture	15.9	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-1 6-7 (6K08002-02) Soil									
% Moisture	4.7	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-2 3-4 (6K08002-03) Soil									
% Moisture	6.8	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-2 6-7 (6K08002-04) Soil									
% Moisture	9.0	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-3 2.5-3.5 (6K08002-05) Soil									
% Moisture	10.3	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-3 5-6 (6K08002-06) Soil									
% Moisture	5.0	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-4 1-2 (6K08002-07) Soil									
% Moisture	3.4	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-4 5-6 (6K08002-08) Soil									
% Moisture	4.5	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-5 3-4 (6K08002-09) Soil									
% Moisture	5.1	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-5 5-6 (6K08002-10) Soil									
% Moisture	2.2	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-6 2-3 (6K08002-11) Soil									
% Moisture	1.0	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	

Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-6 5-6 (6K08002-12) Soil				2/4/4/4/4		riopaios	I likely love	HARLOW	11000
% Moisture	2.2	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-7 3-4 (6K08002-13) Soil									
% Moisture	9.5	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-7 5-6 (6K08002-14) Soil									
% Moisture	5.7	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-8 2-3 (6K08002-15) Soil									
% Moisture	4.7	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-8 5-6 (6K08002-16) Soil									
% Moisture	3.2	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-9 2-3 (6K08002-17) Soil									
% Moisture	4.4	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-9 5-6 (6K08002-18) Soil									
% Moisture	3.8	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	
SB-10 2.5-3.0 (6K08002-19) Soil									
% Moisture	11.6	0.1	%	1	EK60908	11/08/06	11/09/06	% calculation	

Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK60813 - Solvent Extraction (GC)										
Blank (EK60813-BLK1)				Prepared &	Analyzed	: 11/08/06				
Carbon Ranges C6-C10	ND	10.0	mg/kg wet							
Carbon Ranges >C10-C28	ND	10.0	,							
Total Carbon Range C6-C28	ND	10.0	*							
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	70-130			
Surrogate: I-Chlorooctadecane	64.6		"	50.0		129	70-130			
LCS (EK60813-BS1)				Prepared &	Analyzed	: 11/08/06				
Carbon Ranges C6-C10	570	10.0	mg/kg wet	500		114	75-125			
Carbon Ranges >C10-C28	480	10.0		500		96.0	75-125			
Total Carbon Range C6-C28	1050	10.0		1000		105	75-125			
Surrogate: 1-Chlorooctane	63.0		mg/kg	50.0		126	70-130			
Surrogate: 1-Chlorooctadecane	64.3			50.0		129	70-130			
Calibration Check (EK60813-CCV1)				Prepared: 1	1/08/06 A	nalyzed: 1	1/09/06			
Carbon Ranges C6-C10	205		mg/kg	250		82.0	80-120			
Carbon Ranges >C10-C28	248			250		99.2	80-120			
Total Carbon Range C6-C28	453			500		90.6	80-120			
Surrogate: 1-Chlorooctane	50.0		"	50.0		100	70-130			
Surrogate: 1-Chlorooctadecane	52.4		"	50.0		105	70-130			
Matrix Spike (EK60813-MS1)	Sou	rce: 6K08002	2-01	Prepared: 1	1/08/06 A	nalyzed: 1	1/09/06			
Carbon Ranges C6-C10	697	10.0	mg/kg dry	595	ND	117	75-125			
Carbon Ranges >C10-C28	584	10.0		595	ND	98.2	75-125			
Total Carbon Range C6-C28	1280	10.0		1190	ND	108	75-125			
Surrogate: 1-Chlorooctane	61.5		mg/kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	64.0		**	50.0		128	70-130			
Matrix Spike Dup (EK60813-MSD1)	Sou	rce: 6K08002	2-01	Prepared: 1	1/08/06 A	nalyzed: 1	1/09/06			
Carbon Ranges C6-C10	666	10.0	mg/kg dry	595	ND	112	75-125	4.55	20	
Carbon Ranges >C10-C28	559	10.0	*	595	ND	93.9	75-125	4.37	20	
Total Carbon Range C6-C28	1220	10.0		1190	ND	103	75-125	4.80	20	
Surrogate: 1-Chlorooctane	59.3		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	62.8		**	50.0		126	70-130			

9 East Industrial Loop Midland TX, 79701

Project: Yates- Merle Unit #3

Project Number: YATESP027SPL

Project Manager: Ron Rounsaville

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## Organics by GC - Quality Control **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK60914 - EPA 5030C (GC)										
Blank (EK60914-BLK1)				Prepared &	Analyzed:	11/09/06				
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250								
Ethylbenzene	ND	0.0250								
(ylene (p/m)	ND	0.0250								
(ylene (o)	ND	0.0250								
iurrogate: a,a,a-Trifluorotoluene	33.0		ug/kg	40.0		82.5	80-120			
urrogate: 4-Bromofluorobenzene	37.1		**	40.0		92.8	80-120			
CS (EK60914-BS1)				Prepared &	Analyzed:	11/09/06				
Benzene	1.28	0.0250	mg/kg wet	1.25		102	80-120			
Foluene	1.16	0.0250		1.25		92.8	80-120			
Sthylbenzene	1.18	0.0250	*	1.25		94.4	80-120			
Kylene (p/m)	2.40	0.0250		2.50		96.0	80-120			
Kylene (o)	1.19	0.0250	*	1.25		95.2	80-120			
Surrogate: a, a, a-Trifluorotoluene	37.4		ug/kg	40.0		93.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.4		**	40.0		96.0	80-120			
Calibration Check (EK60914-CCV1)				Prepared &	Analyzed:	11/09/06				
Benzene	48.5		ug/kg	50.0		97.0	80-120			
Toluene	42.4			50.0		84.8	80-120			
Ethylbenzene	43.5			50.0		87.0	80-120			
Xylene (p/m)	85.3		*	100		85.3	80-120			
Kylene (o)	43.0		*	50.0		86.0	80-120			
Surrogate: a, a, a-Trifluorotoluene	36.4		"	40.0		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.4		**	40.0		91.0	80-120			
Matrix Spike (EK60914-MS1)	Sou	rce: 6K09004	1-01	Prepared &	Analyzed:	11/09/06				
Benzene	1.50	0.0250	mg/kg dry	1.40	ND	107	80-120			
Toluene	1.41	0.0250		1.40	ND	101	80-120			
Ethylbenzene	1.34	0.0250	*	1.40	0.0335	93.3	80-120			
Kylene (p/m)	2.91	0.0250	*	2.80	0.0657	102	80-120			
Kylene (o)	1.37	0.0250		1.40	ND	97.9	80-120			
Surrogate: a, a, a-Trifluorotoluene	35.6		ug/kg	40.0		89.0	80-120			

Surrogate: 4-Bromofluorobenzene

103

80-120

40.0

41.2

9 East Industrial Loop Midland TX, 79701 Project: Yates- Merle Unit #3

Project Number: YATESP027SPL

Project Manager: Ron Rounsaville

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## Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK60914 - EPA 5030C (GC)										
Matrix Spike Dup (EK60914-MSD1)	Sou	rce: 6K0900	4-01	Prepared &	Analyzed:	11/09/06				
Benzene	1.30	0.0250	mg/kg dry	1.40	ND	92.9	80-120	14.1	20	
Toluene	1.27	0.0250		1.40	ND	90.7	80-120	10.7	20	
Ethylbenzene	1.25	0.0250		1.40	0.0335	86.9	80-120	7.10	20	
Xylene (p/m)	2.76	0.0250	*	2.80	0.0657	96.2	80-120	5.85	20	
Xylene (o)	1.36	0.0250		1.40	ND	97.1	80-120	0.821	20	
Surrogate: a, a, a-Trifluorotoluene	32.6		ug/kg	40.0		81.5	80-120			
Surrogate: 4-Bromofluorobenzene	35.9		**	40.0		89.8	80-120			
Batch EK61101 - EPA 5030C (GC)										
Blank (EK61101-BLK1)				Prepared &	Analyzed:	11/11/06				
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	*							
Ethylbenzene	ND	0.0250								
Xylene (p/m)	ND	0.0250	*							
Xylene (o)	ND	0.0250								
Surrogate: a,a,a-Trifluorotoluene	33.0		ug/kg	40.0		82.5	80-120			
Surragate: 4-Bromofluorabenzene	33.8		**	40.0		84.5	80-120			
LCS (EK61101-BS1)				Prepared &	Analyzed:	11/11/06				
Benzene	1.22	0.0250	mg/kg wet	1.25		97.6	80-120			
Toluene	1.14	0.0250		1.25		91.2	80-120			
Ethylbenzene	1.07	0.0250	*	1.25		85.6	80-120			
Xylene (p/m)	2.36	0.0250		2.50		94.4	80-120			
Xylene (o)	1.11	0.0250		1.25		88.8	80-120			
Surrogate: a, a, a-Trifluorotoluene	32.1		ug/kg	40.0		80.2	80-120			
Surrogate: 4-Bromofluorobenzene	41.4		**	40.0		104	80-120			

9 East Industrial Loop Midland TX, 79701 Project: Yates-Merle Unit #3

Project Number: YATESP027SPL

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Project Manager: Ron Rounsaville

## Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK61101 - EPA 5030C (GC)										
Calibration Check (EK61101-CCV1)				Prepared:	11/11/06 A	nalyzed: 11	/12/06			
Benzene	50.1		ug/kg	50.0		100	80-120			
Toluene	44.2			50.0		88.4	80-120			
Ethylbenzene	45.1			50.0		90.2	80-120			
Xylene (p/m)	87.5			100		87.5	80-120			
Xylene (o)	43.2			50.0		86.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.5		"	40.0		96.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.1		"	40.0		90.2	80-120			
Matrix Spike (EK61101-MS1)	Sou	rce: 6K0900:	5-09	Prepared:	11/11/06 A	nalyzed: 11	/13/06			
Benzene	1.22	0.0250	mg/kg dry	1.37	ND	89.1	80-120			
Toluene	1.21	0.0250		1.37	0.0115	87.5	80-120			
Ethylbenzene	1.20	0.0250		1.37	0.0246	85.8	80-120			
Xylene (p/m)	2.82	0.0250	*	2.74	0.0550	101	80-120			
Xylene (o)	1.31	0.0250	*	1.37	0.0176	94.3	80-120			
Surrogate: a,a,a-Trifluorotoluene	33.7		ug/kg	40.0		84.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.2		**	40.0		88.0	80-120			
Matrix Spike Dup (EK61101-MSD1)	Sou	rce: 6K0900:	5-09	Prepared:	11/11/06 A	nalyzed: 11	/12/06			
Benzene	1.22	0.0250	mg/kg dry	1.37	ND	89.1	80-120	0.00	20	
Toluene	1.21	0.0250		1.37	0.0115	87.5	80-120	0.00	20	
Ethylbenzene	1.11	0.0250		1.37	0.0246	79.2	80-120	8.00	20	M
Xylene (p/m)	2.60	0.0250		2.74	0.0550	92.9	80-120	8.35	20	
Xylene (o)	1.28	0.0250	*	1.37	0.0176	92.1	80-120	2.36	20	
Surrogate: a,a,a-Trifluorotoluene	38.3		ug/kg	40.0		95.8	80-120			
Surrogate: 4-Bromofluorobenzene	36.5		**	40.0		91.2	80-120			

9 East Industrial Loop Midland TX, 79701 Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Batch EK60908 - General Preparation (Prep)	Acous	Dinix	Oma	Devel	Kesuk	ANCISC	Limits	KrD	Lunn	Ivotes
Blank (EK60908-BLK1)				Prepared: 1	1/08/06 A	nalyzed: 11	/09/06			- 1
% Solids	99.6		%							
Duplicate (EK60908-DUP1)	Sou	rce: 6K07014-	01	Prepared: 1	1/08/06 A	nalyzed: 11	/09/06			
% Solids	97.7		%		96.0			1.76	20	
Duplicate (EK60908-DUP2)	Sou	rce: 6K08002-	12	Prepared: 1	1/08/06 A	nalyzed: 11	/09/06			
% Solids	97.3		%		97.8			0.513	20	
Duplicate (EK60908-DUP3)	Sou	rce: 6K06008-	04	Prepared: 1	1/08/06 A	nalyzed: 11	/09/06			
% Solids	91.8		%		92.4			0.651	20	

Talon LPE Project: Yates- Merle Unit #3 Fax: (432) 522-2180

9 East Industrial Loop Project Number: YATESP027SPL
Midland TX, 79701 Project Manager: Ron Rounsaville

#### **Notes and Definitions**

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland Ketuls

Date:

11/15/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Me Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

		11		.,							exas									. /	Fa	x:	432-5	563-1	713			
	Project Manager:	Kon Roun S	tril	12				_			_					Pro												#3
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	Company Address:	9 E. Inc	das	frie	1 /001	1										P												NA
	City/State/Zio:	midlad	,77	/	79701													PO	#:				/-					
	Telephone No:	522-2133				Fax No:		5-2	22	- 2	15	2.0			R	port	Form	nat:	-	N SI	anda	and	Г	TE	RRP	П	NPDI	ES
	Sampler Signature:	Rock	e	1		e-mail:							le	ci	-									-				_
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ORDE	R#: UK0800	2.							Press	ervatio	008#	l of Co	ontaine	4		0% trix	(0)	_	TOTA		F							48, 72
			T									T		T			1006		33	HO Se	2		8280				:	
AB # (lab use only)		CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	lcc	HNOs	HCI	H-50,	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Other (Specify)	DW-Drinking Water SL-Shadge	-Non-Potable Specify Other	TPH: 418.1 (8015) \$1005	Callons (Ca, Mg, Na, K)	Anions (Cl. 804, CO3, HCO3)	Metsis: As Ag Bg Cd Cr Pb		Semivotalias	BTEX 8023 B 030 or BTEX 8280	NO.R.W.				Standard TAT
ना	53-6	CODE	Z	3	11/07/04	1018	1	V	-	1	1	2		- 0	5	THE RESERVE	-	0	₹ (	4 2	>	cō.	10 C	2 2	+	+	1	3
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#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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	Company Name	Talon / Us	٤				(-16)										Pro	oject	#:_	Yac	At	ÉS	P	02	27	SP	4		
	Company Address:	9. E. In	dast	rial	lost											F	roje	ct Lo	oc:	1	20	2 &	R	0-6	15	1	des		
	City/State/Zip:	midled	TY		9701													PO	#:										
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(lab u			ulng [	9 Depth	Date Sampled	Time Sampled	Cuntair	П			1		5	Speci	Ideg Wa	Polabin	18.1	(Ca. N	(Ct. SC	SPIC	8	laties	021BA	)				TAT	ard TA
AB # (lab use only)	FIEL	DCODE	Beginning Depth	Ending	Date	Time	Nu. of	lco	HNO	Ā	H230,	NaOH	None	Other (	W-Orie	GW = G	TPH: 418.1	Cations (Ca.	Anions (Ct, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As	Semino	X	RCI	N.O.R.M.			RUSH TAT pre	Standard TAT
-01	SB-1		3		11/07/06	0915	1	1				1	T	+	3	Z	V			,		0.2	L			$\Box$		-	65
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Variance/ Corrective Action Report- Sample Log-In

Client: Talm LFE				
Date/ Time: 118/60 9:30				
Lab ID#: 6K08002				
Initials:				
Sample Receipt	Checklist			
	1 V	N		Client Initials
#1 Temperature of container/ cooler?	Yes	No	1,0 °C	
#2 Shipping container in good condition?	eres Ves	No	Chief Descript	
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#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?	tes	No		
#7 Chain of Custody signed when relinquished/ received?	<b>X</b> BB	No	10 11 0 1111	
#8 Chain of Custody agrees with sample label(s)?	799	No	ID written on Cont./ Lid	-
#9 Container label(s) legible and intact?	) ES	No	Not Applicable	-
#10. Sample matrix/ properties agree with Chain of Custody?	Yes	No	-	
#11 Containers supplied by ELOT?	Xes	No No	O D-l	
#12 Samples in proper container/ bottle?	Yes		See Below	
#13 Samples properly preserved?	Yes	No	See Below	-
#14 Sample bottles intact? #15 Preservations documented on Chain of Custody?	₹es Ves	No		-
	Yes	No		
#16 Containers documented on Chain of Custody?		No	22.1	
#17 Sufficient sample amount for indicated test(s)?	Yes	No No	See Below	
#18 All samples received within sufficient hold time? #19 VOC samples have zero headspace?	Yes, Yes	No	See Below	-
#19 VOC samples have zero headspace?	(180)	140	Not Applicable	
Contact: Contacted by:	mentation		Date/ Time:	
Regarding:		···		
Comp. E. a. Anthon Tolland				
Corrective Action Taken:				
				-
Check all that Apply:  See attached e-mail/ fax  Client understands and wou  Cooling process had begun	and the same of th		The state of the s	



# **Analytical Report**

## Prepared for:

Ron Rounsaville
Talon LPE
9 East Industrial Loop
Midland, TX 79701



Project: Yates- Merle Unit #3
Project Number: YATESP027SPL
Location: Cross Roads, NM

Lab Order Number: 6K08002

Report Date: 11/15/06

9 East Industrial Loop Midland TX, 79701 Project: Yates-Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 3-4	6K08002-01	Soil	11/07/06 09:15	11-08-2006 09:30
SB-1 6-7	6K08002-02	Soil	11/07/06 09:20	11-08-2006 09:30
SB-2 3-4	6K08002-03	Soil	11/07/06 09:30	11-08-2006 09:30
SB-2 6-7	6K08002-04	Soil	11/07/06 09:35	11-08-2006 09:30
SB-3 2.5-3.5	6K08002-05	Soil	11/07/06 09:40	11-08-2006 09:30
SB-3 5-6	6K08002-06	Soil	11/07/06 09:45	11-08-2006 09:30
SB-4 1-2	6K08002-07	Soil	11/07/06 09:52	11-08-2006 09:30
SB-4 5-6	6K08002-08	Soil	11/07/06 09:55	11-08-2006 09:30
SB-5 3-4	6K08002-09	Soil	11/07/06 10:08	11-08-2006 09:30
SB-5 5-6	6K08002-10	Soil	11/07/06 10:12	11-08-2006 09:30
SB-6 2-3	6K08002-11	Soil	11/07/06 10:18	11-08-2006 09:30
SB-6 5-6	6K08002-12	Soil	11/07/06 10:24	11-08-2006 09:30
SB-7 3-4	6K08002-13	Soil	11/07/06 10:35	11-08-2006 09:30
SB-7 5-6	6K08002-14	Soil	11/07/06 10:40	11-08-2006 09:30
SB-8 2-3	6K08002-15	Soil	11/07/06 11:02	11-08-2006 09:30
SB-8 5-6	6K08002-16	Soil	11/07/06 11:06	11-08-2006 09:30
SB-9 2-3	6K08002-17	Soil	11/07/06 11:21	11-08-2006 09:30
SB-9 5-6	6K08002-18	Soil	11/07/06 11:24	11-08-2006 09:30
SB-10 2.5-3.0	6K08002-19	Soil	11/07/06 11:49	11-08-2006 09:30

Project: Yates-Merle Unit #3
Project Number: YATESP027SPL

Project Number: YATESP027SPL Project Manager: Ron Rounsaville

## General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Amahda	, h	Reporting	Unite						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 3-4 (6K08002-01) Soil									
Chloride	1370	25.0	mg/kg	50	EK60909	11/09/06	11/09/06	EPA 300.0	
SB-1 6-7 (6K08002-02) Soil									
Chloride	157	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	
SB-2 3-4 (6K08002-03) Soil									
Chloride	J [1.49]	5.00	mg/kg	10	EK60909	11/09/06	11/14/06	EPA 300.0	3
SB-2 6-7 (6K08002-04) Soil									
Chloride	8.94	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	
SB-3 2.5-3.5 (6K08002-05) Soil									
Chloride	68.7	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	
SB-3 5-6 (6K08002-06) Soil									
Chloride	J [1.51]	5.00	mg/kg	10	EK60909	11/09/06	11/14/06	EPA 300.0	J
SB-4 1-2 (6K08002-07) Soil									
Chloride	31.1	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	
SB-4 5-6 (6K08002-08) Soil									
Chloride	J [1.31]	5.00	mg/kg	10	EK60909	11/09/06	11/14/06	EPA 300.0	1
SB-5 3-4 (6K08002-09) Soil									
Chloride	J [2.03]	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	J
SB-5 5-6 (6K08002-10) Soil									
Chloride	J [4.14]	5.00	mg/kg	10	EK60909	11/09/06	11/14/06	EPA 300.0	J
SB-6 2-3 (6K08002-11) Soil									
Chloride	J [2.48]	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	J

Fax: (432) 522-2180

9 East Industrial Loop Midland TX, 79701 Project: Yates- Merle Unit #3

Project Number: YATESP027SPL Project Manager: Ron Rounsaville Fax: (432) 522-2180

## General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	m. 1	D - 1			14.1	
SB-6 5-6 (6K08002-12) Soil	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
53-0 5-0 (GK 96002-12) Soil									
Chloride	J [1.05]	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	
SB-7 3-4 (6K08002-13) Soil									
Chloride	24.2	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	
SB-7 5-6 (6K08002-14) Soil									
Chloride	16.0	5.00	mg/kg	10	EK60909	11/09/06	11/14/06	EPA 300.0	
SB-8 2-3 (6K08002-15) Soil									
Chloride	62.5	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	
SB-8 5-6 (6K08002-16) Soil									
Chloride	J [1.51]	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	1
SB-9 2-3 (6K08002-17) Soil									
Chloride	43.8	5.00	mg/kg	10	EK60909	11/09/06	11/09/06	EPA 300.0	
SB-9 5-6 (6K08002-18) Soil									
Chloride	J [1.61]	5.00	mg/kg	10	EK60910	11/09/06	11/11/06	EPA 300.0	J
SB-10 2.5-3.0 (6K08002-19) Soil									
Chloride	462	10.0	mg/kg	20	EK60910	11/09/06	11/11/06	EPA 300.0	

9 East Industrial Loop Midland TX, 79701 Project: Yates- Merle Unit #3

Project Number: YATESP027SPL

Project Manager: Ron Rounsaville

Fax: (432) 522-2180

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK60909 - Water Extraction				20,00	-	7 12 12 1				21010
Blank (EK60909-BLK1)				Prepared &	Analyzed	: 11/09/06				
Chloride	ND	0.500	mg/kg							
LCS (EK60909-BS1)				Prepared &	Analyzed:	: 11/09/06				
Chloride	11.0	0.500	mg/kg	10.0		110	80-120			
Calibration Check (EK60909-CCV1)				Prepared &	Analyzed:	11/09/06				
Chloride	11.2		mg/L	10.0		112	80-120			
Duplicate (EK60909-DUP1)	Sou	rce: 6K08002	-02	Prepared &	Analyzed:	11/09/06				
Chloride	149	5.00	mg/kg	•	157			5.23	20	
Duplicate (EK60909-DUP2)	Sou	rce: 6K08002	-12	Prepared &	Analyzed:	11/09/06				
Chloride	1.08	5.00	mg/kg		1.05			2.82	20	
Matrix Spike (EK60909-MS1)	Sou	rce: 6K08002	-02	Prepared &	Analyzed:	11/09/06				
Chloride	264	5.00	mg/kg	100	157	107	80-120			
Matrix Spike (EK60909-MS2)	Sour	rce: 6K08002	-12	Prepared &	Analyzed:	11/09/06				
Chloride	106	5.00	mg/kg	100	1.05	105	80-120			
Batch EK60910 - Water Extraction										
Blank (EK60910-BLK1)				Prepared: 1	11/09/06 A	nalyzed: 11	1/14/06			
Chloride	ND	0.500	mg/kg							
LCS (EK60910-BS1)				Prepared: 1	11/09/06 A	nalyzed: 11	1/11/06			
Chloride	10.8	0.500	mg/kg	10,0		108	80-120			

9 East Industrial Loop Midland TX, 79701 Project: Yates- Merle Unit #3

Project Number: YATESP027SPL

Project Manager: Ron Rounsaville

Fax: (432) 522-2180

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK60910 - Water Extraction										
Calibration Check (EK60910-CCV1)				Prepared: 1	11/09/06 A	analyzed: 11	1/14/06			
Chloride	10.4		mg/L	10.0		104	80-120			
Duplicate (EK60910-DUP1)	Sou	rce: 6K08002	-19	Prepared: 1	11/09/06 A	nalyzed: 11	1/11/06			
Chloride	455	10.0	mg/kg		462			1.53	20	
Duplicate (EK60910-DUP2)	Sou	rce: 6K09007	-02	Prepared: 1	11/09/06 A	analyzed: 11	1/14/06			
Chloride	233	10.0	mg/kg		234			0.428	20	
Matrix Spike (EK60910-MS1)	Sou	rce: 6K08002	-19	Prepared: 1	11/09/06 A	analyzed: 11	1/11/06			
Chloride	701	100	mg/kg	200	462	120	80-120			
Matrix Spike (EK60910-MS2)	Sou	rce: 6K09007	-02	Prepared: 1	11/09/06 A	analyzed: 11	1/14/06			
Chloride	430	10.0	mg/kg	200	234	98.0	80-120			

Talon LPE Project: Yates- Merle Unit #3 Fax: (432) 522-2180

9 East Industrial Loop Project Number: YATESP027SPL
Midland TX, 79701 Project Manager: Ron Rounsaville

**Notes and Definitions** 

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland Ketuls

Date:

11/15/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Ron Rouns	quil	10						Vest , Te					F	roje	ot Na	ıme:	Ya	F	ax:	43	32-5 32-5	83-1	713	Unit	- # T	3
Company Name Talon LAE														1	Proje	ct #:	1)	IA	E	5/	00	27	SP	L		
Company Address: 9 E. Indus												_												SS Los		N
City/State/Zp: Midland T	X	79	701												P	0#:				-	_					
Telephone No: 572-2/33				Fax No:		7	2-	21	80				Repo	nt F	oma	t:	D	Stan	card			TR	RP	□ N	PDES	k.
Sampler Signature: RUK	1	l	1	e-mail:	ri	ou	ms	av.	11	e	@	Tay	lond	٤.	con	_			A	1	For:					1
(lab use only)												Á	1	t			CLP:		Ana	lyze	FOI.	T		T	72 hvs	
ORDER #: (LKO8002							Prese	rvation	1 & #	o' Co	ntaine		0 Matr x	-	8	To	TAL:	Se	-	+					4	
(App osm	Beginning Depth	Ending Depth	Dete Sampled	Time Sampled	No. of Containers	lce	HNO <sub>2</sub>	на	H-SO.	NSOH	None	Other (Spacify)	DW-Drinking Water SL=Sludge GW = Groundwater S~Soli/Solid	ble Specify Other	THY: 418.1 BO15M 1005 1006 Callons (Ca Mo Ma K)	304, 000	SAR / ESP / CEC	Cd Cr Pb Hg	Vidalies	200	BTEX 8021B/5030 or BTEX 8260	N.O.R.M.		Ch (alk) DES	RUSH TAT (Pre-Schedule) 24,	Standard TAT
	3	4	11/07/06	0915	1	V							5										1	1		
02 SB-1	le	7		0920	1	V	1						S											4		
04 SB-2	3	4		0930	1	V							S										1	-		
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#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

	Project Manager:	Ron Rouns	u: 1	e								7976			D	roloa	e Mar	,,,,	149	Fax	C	432-	63-18 63-17	13	`+ z	£3
	Company Name	TALON INP							-															SPO		
	Company Address:	9 E. Indus		н	Loop			_																		5 Road
	City/State/Zip:	midland t		79														)#:								
	Telephone No:	432-572-2			1.	Fax No:	5	17	-7	210	٥				Repor			_	1	anda		-	TRE		Пия	2050
	Sampler Signature:	Rell Res	1	1								e	e T	ALC	NLPE			k	2 50					(P		LIES
(lab use														Л	des			TOTA		I.	naiyz	e For				72 hrs
ORDE	R#: 45080	02					_		Press	rvatio	n & #	of Co	ntaine		OMetrix	9001	Г		13		Н	80				14
AB # (lab use only)	FIELI	D CODE	Beginning Depth	Ending Depth	Date Sampled	Tirne Sampled	No. of Caritainers	ko	HNO <sub>3</sub>	нсі	H,50,	NaOH	None	Other (Specify)	UW=Drinking Warter SL=Shidge GW = Groundwater S=SoitSoikd	TPH: 418.1 8015M 1005 to	Calltons (Ca, Mg, Na, K)	Anlows (Cl. SO4, CO3, HCO3)	Metalic: As Ao Ba Cd Cr Pb Ho		Semivolaties	BTEX 80219/5030 or BTEX 8260	NORM,	ChloRides		RUSH TAT Pre-Schedule) 14.
-11	5B-6		Z	3	11/07/06	1018	1	V	1						3									1		
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Relinger	Instructions:	Oate 11/1/06 Opte 11/8/06 Oate	17	ime 130 ime 130	Received by:	Contract of Francisco	7	)-		4.7		7		2/00	ate	Tim 17.	30 Ne	Cust Cust Sam	ole C s Fre ody s ole H y Sar y Go	ontaile of leasts easts and the other?	ners Head on co on co Delive /Clier	Intaci space ontain poler( ered at Rep UPS	? er(s) s)	Fec	(A)	Z Z ₹ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z

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

nitials:	Ck				
	Sample Receipt	Checklist		CI	ient Initials
1 Tempera	ture of container/ cooler?	Yes	No	1.0 °C	rent initial
	container in good condition?	des	No	1.	
	Seals intact on shipping container/ cooler?	Yes	No	Not Present	
	Seals intact on sample bottles/ container?	XES	No	Not Present	
5 Chain of	Custody present?	YES	No		
	nstructions complete of Chain of Custody?	Xes	No		
	Custody signed when relinquished/ received?	£20	No		
8 Chain of	Custody agrees with sample label(s)?	£88	No	ID written on Cont./ Lid	
9 Container	label(s) legible and intact?	Xes	No	Not Applicable	
10. Sample	matrix/ properties agree with Chain of Custody?	WES .	No		
11 Containe	ers supplied by ELOT?	Xes	No		
12 Samples	in proper container/ bottle?	Yes	No	See Below	
13 Samples	properly preserved?	Yes	No	Scc Below	
14 Sample	bottles intact?	Yes	No		
15 Preserva	itions documented on Chain of Custody?	Yes	No		
16 Containe	ers documented on Chain of Custody?	Yes	No		
17 Sufficien	t sample amount for indicated test(s)?	Yes	No	See Below	
18 All samp	les received within sufficient hold time?	Yes	No	See Below	
19 VOC sar	nples have zero headspace?	Xes	No	Not Applicable	
Contact:	Variance Docu  Contacted by:	mentation	-	Date/ Time:	
Corrective Act	ion Taken:				
1	-			,	