

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.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Burgundy Oil & Gas, Inc.	Contact	Ben Taylor
Address	401 W. Texas, Suite 1003, Midland, TX 79701	Telephone No.	(432) 684-4033
Facility Name	Eunice Monument Unit #28 (IRP # 1277)	Facility Type	Well / Flow Line
Surface Owner:	State	Mineral Owner:	State
		Lease No.	015823
		API No.	30-025-06170

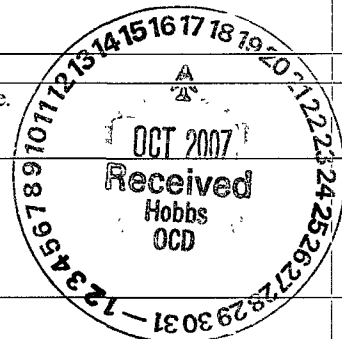
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	19	20S	37E	330	South	330	West	Lea

Latitude N 32 deg. 33.311' Longitude W 103 deg. 17.455'

NATURE OF RELEASE

Type of Release	Oil and Water	Volume of Release	5 bbl	Volume Recovered	None
Source of Release	Flow Line	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	3/13/07
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Leak discovered by OCD (Gary Wink)		
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					



Describe Cause of Problem and Remedial Action Taken.*

Oil and water were released from a flow line. Excavation of impacted soil was conducted. Impacted soil was hauled to an NMOCD approved disposal facility. The excavation was backfilled with clean soil.

Describe Area Affected and Cleanup Action Taken.*


Soil was excavated in a 36' x 37' x 20' (deep) area until laboratory results of samples reported TPH concentrations below 100 mg/kg and chloride concentrations below 250 mg/kg. Impacted soil was hauled to Sundance Disposal facility, and the excavation was backfilled with clean soil. A site drawing with sample locations is attached, along with laboratory documentation, a table summarizing the sample results and a chloride report of water similar to that which was released.

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.

Signature:	OIL CONSERVATION DIVISION		
Printed Name: Cindy Crain as Agent for Burgundy Oil and Gas	Approved by District Supervisor ENVIRONMENTAL ENGINEER		
Title: Geologist / Environmental Manager	Approval Date: 10-18-07	Expiration Date: _____	
E-mail Address: cindy.crain@gmail.com	Conditions of Approval:	Attached <input type="checkbox"/>	
Date: 10/11/07	Phone: (505) 441-7244		

Request for Backfill Approval - Burgundy Oil and Gas - Eunice Monument Unit #28 - 1RP # 1277 [Print all](#)

☆ Cindy Crain to Larry,, Ben

show details 11:20 am (0 minutes ago)  [Reply](#)

Larry,

Burgundy Oil and Gas reported a flow line spill on a C141 dated 3/19/07 at the Eunice Monument Unit #28. The site is located in Unit Letter M, Section 19, T20S, R37E, Lea County, New Mexico. Depth to groundwater is approximately 25 feet bgs.

Ocotillo Environmental has completed excavation of the impacted soil and has collected confirmation samples that report TPH concentrations below 100 mg/kg, and chloride concentrations below 250 mg/kg. Attached please find Table 1, that provides a summary of the laboratory results.

As you requested a chloride report of the released water on the C141, a water sample is being collected today from the well. I am in the process of preparing the final C141 report, and will be able to submit that to you when the results of the water sample are obtained.

In the meantime, Burgundy would like to go ahead and backfill the excavation pending your approval to do so.

Please let me know if we can proceed with backfilling.

Thank you,

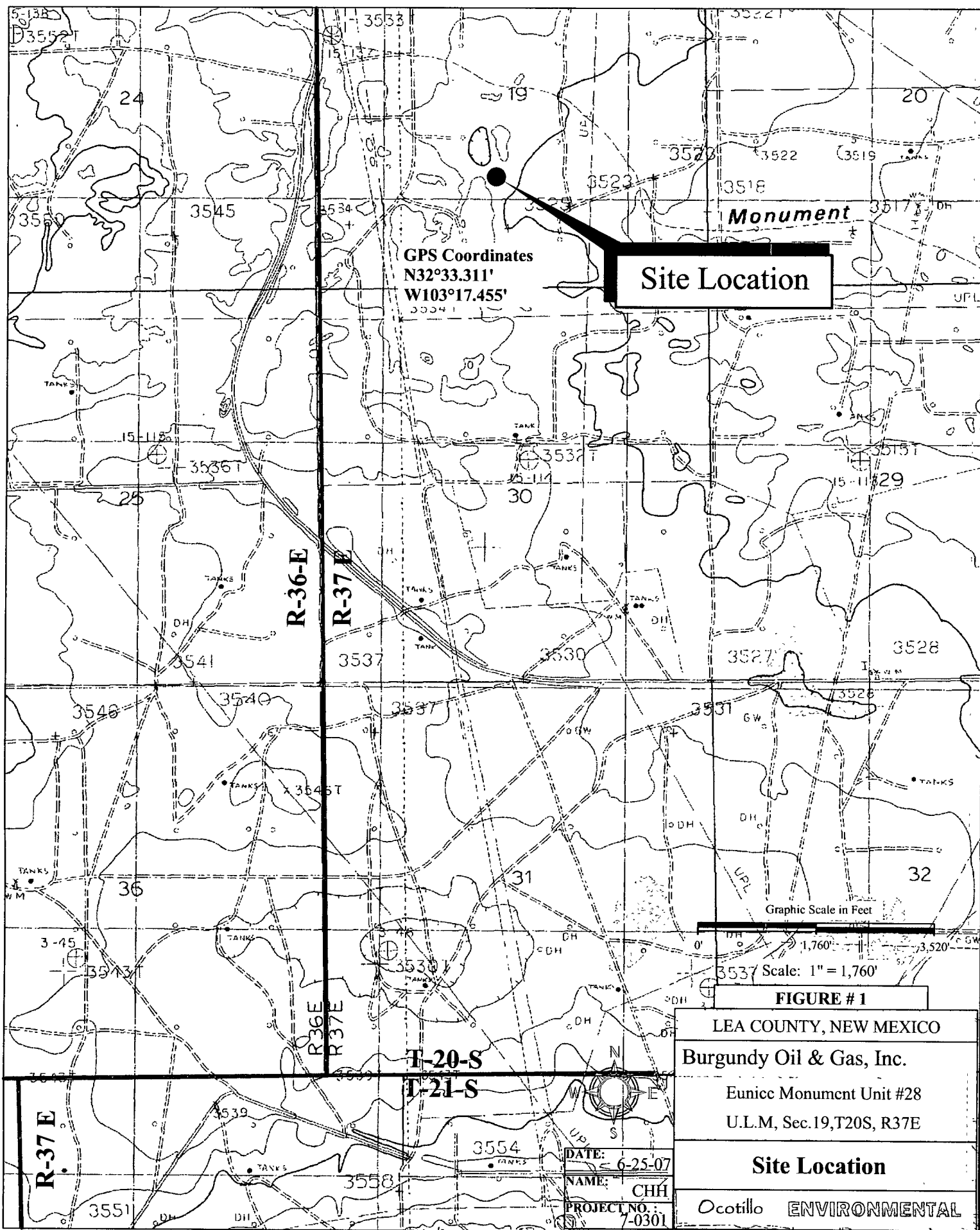
—
Cindy Crain
Environmental Manager

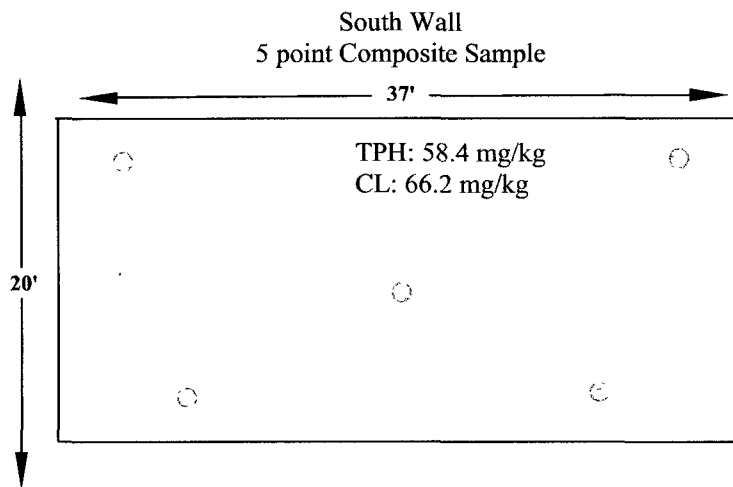
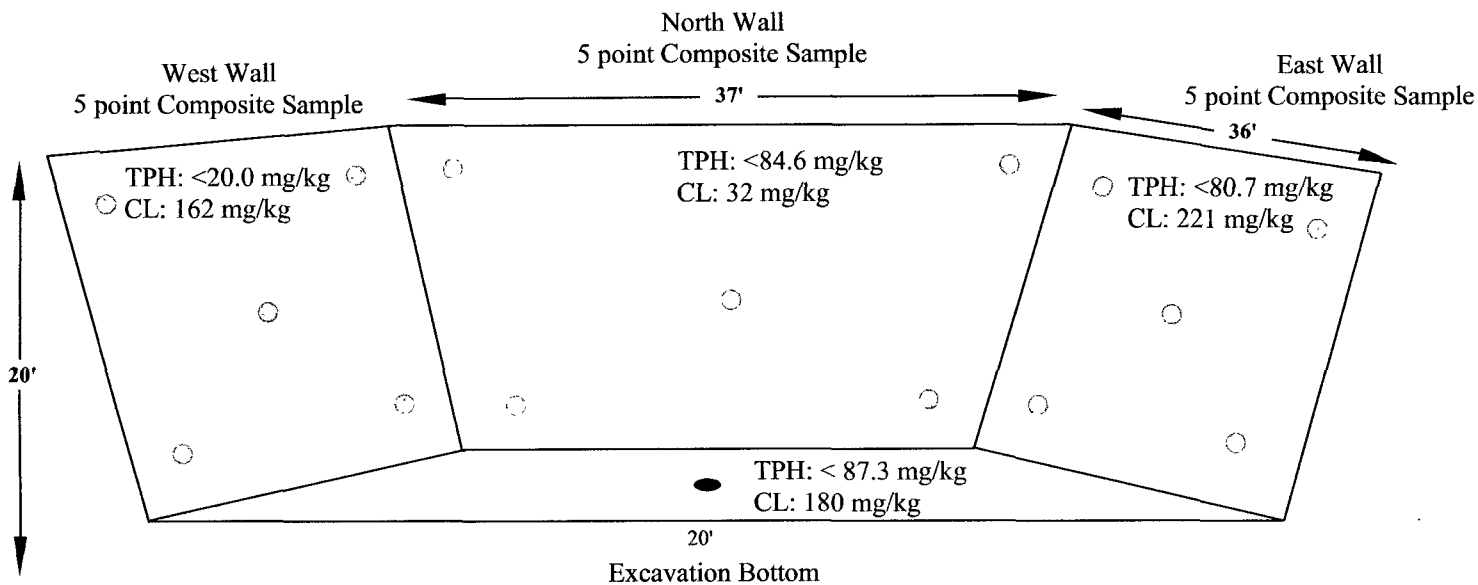
Ocotillo Environmental
2125 French Drive
Hobbs, NM 88240

Office (505) 393-6371
Cell (505) 441-7244
Fax (432) 272-0304

*Verbal approval
10/11/07*

**Table.xls**[27K View as HTML](#) [Open as a Google spreadsheet](#) [Download](#)[↩ Reply](#) [↩ Reply to all](#) [➡ Forward](#)

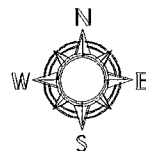




LEGEND



Soil sample location for sidewall composite sample.



DATE: 10-14-07
NAME: CHH
PROJECT NO.: 0807-018R

FIGURE # 2

LEA COUNTY, NEW MEXICO

Burgundy Oil & Gas, Inc.

Eunice Monument Unit #28

U.L.M, Sec.19,T20S, R37E

Site Drawing with Sample Locations

Ocotillo ENVIRONMENTAL

Table 1: Summary of Laboratory Analysis of Soil Samples
Burgundy Oil & Gas, Inc., EMU Lease
Section 19, Township 20 South, Range 37 East
Lea County, New Mexico

Page 1 of 1

Sample Date	Soil Sample Number	Sample Depth (feet BGS)	PID	TPH C6-C12 (mg/kg)	TPH C12-C28 (mg/kg)	TPH C28-C35 (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)
Standard (WQCC)							100	250	10	50
6/6/07	SS-1	0-1	73	1,620	23,600	3,100	28,320	21.3	---	---
6/6/07	SS-2	5-6	842	2,590	11,000	1,490	15,080	63.8	0.89	12.73
6/6/07	SS-3	10-11	610	2,110	7,120	1,020	10,250	574	2.50	18.47
6/6/07	SS-4	15-16	168	19	82.7	23.4	125.1	1,360	<0.0250	0.126
6/6/07	SS-5	0-1	7	<10.0	6.22	<10.0	6.22	21.3	---	---
6/6/07	SS-6	5-6	5	<10.0	<10.0	<10.0	<30.0	<20.0	---	---
6/20/07	Bottom	17'	0	<29.1	<29.1	<29.1	<87.3	1,920	---	---
7/11/07	Bottom	20'	---	<10.6	45.9	25.3	71.2	633	---	---
8/9/07	Bottom	20'	---	---	---	---	---	180	---	---
6/20/07	North Side	Composite	13	<28.2	<28.2	<28.2	<84.6	1,310	---	---
8/9/07	North Side	Composite	---	---	---	---	---	624	---	---
9/4/07	SS-6	Composite	---	---	---	---	---	432	---	---
10/3/07	SS-8	Composite	---	---	---	---	---	32	---	---
6/20/07	South Side	Composite	33	75.6	808	150	1033.6	738	---	---
7/11/07	South Side	Composite	---	<10.5	36.8	21.6	58.4	268	---	---
8/9/07	South Side	Composite	---	---	---	---	---	66.2	---	---
6/20/07	East Side	Composite	0	<26.9	<26.9	<26.9	<80.7	1,010	---	---
8/9/07	East Side	Composite	---	---	---	---	---	221	---	---
6/20/07	West Side	Composite	42	84.1	727	146	957.1	865	---	---
7/11/07	West Side	Composite	---	<10.5	75	34.9	109.9	162	---	---
8/9/07	West Side	Composite	---	<10.8	104	11	115.7	---	---	---
9/4/07	West Side	Composite	---	<10.0	---	<20.0	<20.0	---	---	---

Notes

1. BGS Depth in feet below ground surface
2. mg/kg Milligrams per kilogram
3. --- No data available
4. < Below method detection limit

Technical Services Group

16107 West University
Odessa, Texas 79769
(800)-374-2802



WATER ANALYSIS REPORT

Sample Information

Company	Burgundy
Lease	EMU
Well Number	34
Sample Location	Well head
Sample Date	08/01/07

City/ County	
State	
Formation	
BB Chem. Rep.:	Ray Pierson
Analysis Date:	08/03/07

Dissolved Gasses

	PPM
Hydrogen Sulfide	0
Carbon Dioxide	ND
Dissolved Oxygen	ND

Fluid Conditions

Fluid Temp.	72 °F
Resistivity (RW)	0.240 Ohm-m
pH	6.71
SpGr.	1.012

Cations

	mg/L	meq/L
Sodium	11,056	480.7
Calcium	1,163	58.1
Magnesium	146	12.0
Barium	1	0.0
Iron	0.4	0.0
Manganese	0.004	
Strontium	11.5	

Anions

	mg/L	meq/L
Bicarbonate	1,415	23.2
Chloride	15,517	437.1
Sulfate	1,125	23.4

Total Dissolved Solids	30,435
Total Ionic Strength	0.57
Total Hardness as CaCO3	3,502

Calcium Carbonate Scaling Tendency

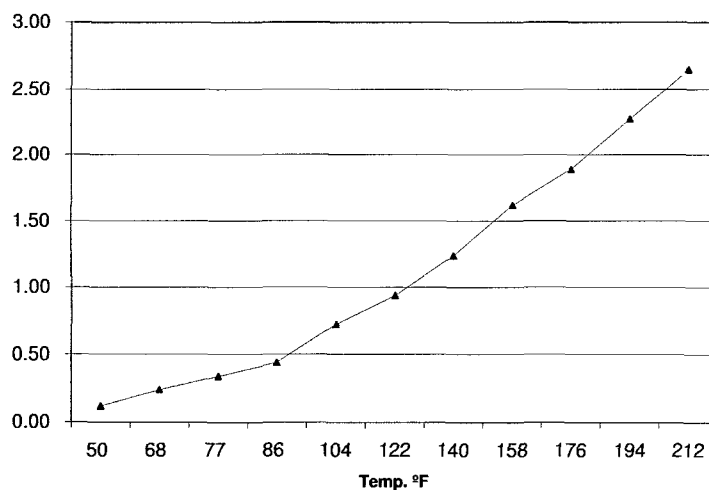
Stability Index:

°F	
50	0.12
68	0.24
77	0.34
86	0.44
104	0.72
122	0.94
140	1.24
158	1.62
176	1.89
194	2.27
212	2.65

Calcium Carbonate Index Legend

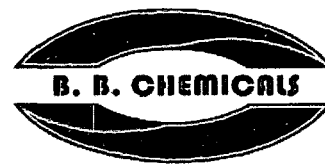
SI of less than 0 = No Potential
SI of 0 to 0.5 = Marginal Potential
SI of 0.5 to 1.0 = Moderate Potential
SI of above 1.0 = Severe Potential

Carbonate Scale Index



Technical Services Group

16107 West University
Odessa, Texas 79769
(800)-374-2802



WATER ANALYSIS REPORT

Page 2

Sample Information

Company	Burgundy
Lease	EMU
Well Number	34
Sample Location	Well head
Sample Date	8/1/2007

City/ State	
County	
Formation	
BB Chem. Rep.:	Ray Pierson
Analysis Date:	08/03/07

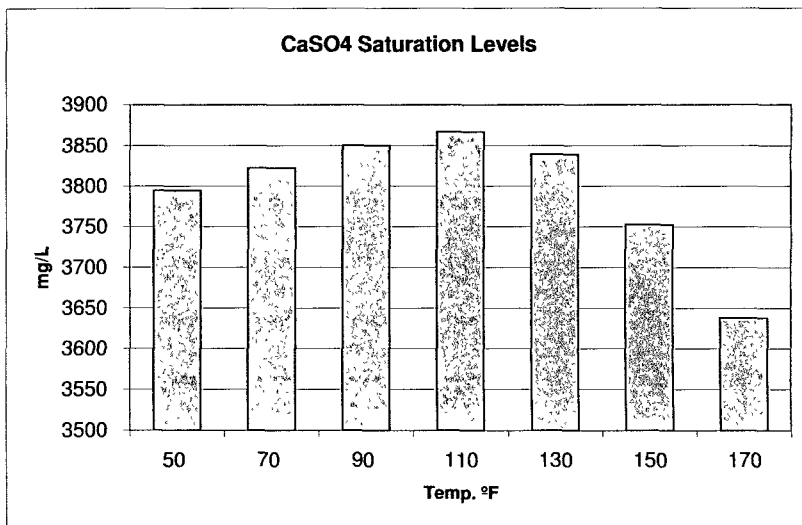
Calcium Sulfate Scaling Tendency

Maximum Amount of CaSO₄ which can be held in solution at these temperatures.

°F	mg/L
50	3794.62
70	3822.58
90	3850.39
110	3867.01
130	3839.29
150	3752.40
170	3638.12

Actual CaSO₄ Conc. = 2017.97

If the actual value exceeds
any of the mg/L values above.
Calcium sulfate scale is likely



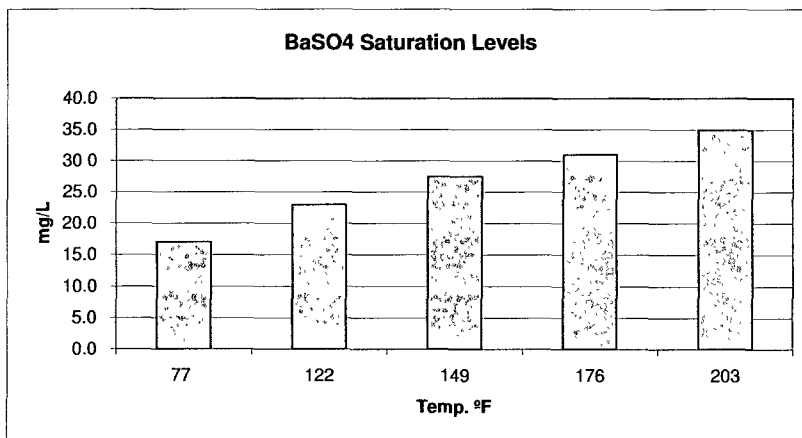
Barium Sulfate Scaling Tendency

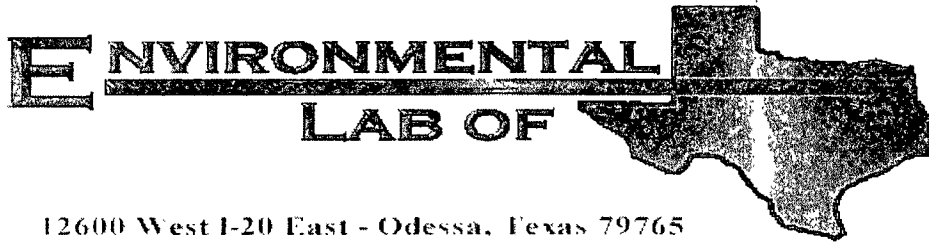
Maximum Amount of BaSO₄ which can be held in solution at these temperatures.

°F	mg/L
77	17.0
122	23.0
149	27.5
176	31.0
203	35.0

Actual BaSO₄ Conc. = 1.41

If the actual value exceeds
any of the mg/L values above.
barium sulfate scale is likely





12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Cindy Crain

Ocotillo Environmental

2125 French Dr.

Hobbs, NM 88201

Project: Burgundy EMU Lease

Project Number: 7-0201

Location: Monument, NM

Lab Order Number: 7F06026

Report Date: 06/13/07

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1	7F06026-01	Soil	06/06/07 09:23	06-06-2007 16:00
SS-2	7F06026-02	Soil	06/06/07 09:26	06-06-2007 16:00
SS-3	7F06026-03	Soil	06/06/07 09:50	06-06-2007 16:00
SS-4	7F06026-04	Soil	06/06/07 10:05	06-06-2007 16:00
SS-5	7F06026-05	Soil	06/06/07 10:15	06-06-2007 16:00
SS-6	7F06026-06	Soil	06/06/07 10:30	06-06-2007 16:00

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-1 (7F06026-01) Soil									
Carbon Ranges C6-C12	1620	100	mg/kg dry	10	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	23600	100	"	"	"	"	"	"	
Carbon Ranges C28-C35	3100	100	"	"	"	"	"	"	
Total Hydrocarbons	28300	100	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		15.5 %	70-130		"	"	"	"	S-06
<i>Surrogate 1-Chlorooctadecane</i>		14.0 %	70-130		"	"	"	"	S-06
SS-2 (7F06026-02) Soil									
Benzene	0.890	0.200	mg/kg dry	200	EF70705	06/07/07	06/08/07	EPA 8021B	
Toluene	2.91	0.200	"	"	"	"	"	"	
Ethylbenzene	2.20	0.200	"	"	"	"	"	"	
Xylene (p/m)	5.18	0.200	"	"	"	"	"	"	
Xylene (o)	1.55	0.200	"	"	"	"	"	"	
<i>Surrogate a,a,a-Trifluorotoluene</i>		138 %	75-125		"	"	"	"	S-04
<i>Surrogate 4-Bromofluorobenzene</i>		110 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	2590	100	mg/kg dry	10	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	11000	100	"	"	"	"	"	"	
Carbon Ranges C28-C35	1490	100	"	"	"	"	"	"	
Total Hydrocarbons	15100	100	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		20.2 %	70-130		"	"	"	"	S-06
<i>Surrogate 1-Chlorooctadecane</i>		12.7 %	70-130		"	"	"	"	S-06
SS-3 (7F06026-03) Soil									
Benzene	2.50	0.200	mg/kg dry	200	EF70705	06/07/07	06/08/07	EPA 8021B	
Toluene	5.24	0.200	"	"	"	"	"	"	
Ethylbenzene	3.25	0.200	"	"	"	"	"	"	
Xylene (p/m)	5.11	0.200	"	"	"	"	"	"	
Xylene (o)	2.37	0.200	"	"	"	"	"	"	
<i>Surrogate a,a,a-Trifluorotoluene</i>		214 %	75-125		"	"	"	"	S-04
<i>Surrogate 4-Bromofluorobenzene</i>		134 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C12	2110	100	mg/kg dry	10	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	7120	100	"	"	"	"	"	"	
Carbon Ranges C28-C35	1020	100	"	"	"	"	"	"	
Total Hydrocarbons	10200	100	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		18.1 %	70-130		"	"	"	"	S-06
<i>Surrogate 1-Chlorooctadecane</i>		12.1 %	70-130		"	"	"	"	S-06

Environmental Lab of Texas
A Xenco Laboratories Company

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

Page 2 of 11

Ocotillo Environmental
2125 French Dr
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax (432) 367-6747

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-4 (7F06026-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF70705	06/07/07	06/08/07	EPA 8021B	
Toluene	J [0.0248]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	0.0344	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0470	0.0250	"	"	"	"	"	"	
Xylene (o)	J [0.0198]	0.0250	"	"	"	"	"	"	J
<i>Surrogate a,a,a-Trifluorotoluene</i>		98.0 %	75-125		"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		83.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	19.0	10.0	mg/kg dry	1	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	82.7	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	23.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	125	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		123 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		118 %	70-130		"	"	"	"	
SS-5 (7F06026-05) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	J [6.22]	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		110 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		109 %	70-130		"	"	"	"	
SS-6 (7F06026-06) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF70703	06/07/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		80.0 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		79.6 %	70-130		"	"	"	"	

Ocotillo Environmental
2125 French Dr
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-1 (7F06026-01) Soil									
Chloride	21.3	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	4.6	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
SS-2 (7F06026-02) Soil									
Chloride	63.8	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	10.4	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
SS-3 (7F06026-03) Soil									
Chloride	574	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	6.7	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
SS-4 (7F06026-04) Soil									
Chloride	1360	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	10.8	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
SS-5 (7F06026-05) Soil									
Chloride	21.3	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	3.0	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
SS-6 (7F06026-06) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	2.9	0.1	%	1	EF70801	06/08/07	06/08/07	% calculation	

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

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 EF70702 - Solvent Extraction (GC)

Blank (EF70702-BLK1)

Prepared: 06/07/07 Analyzed: 06/09/07

Carbon Ranges C6-C12	ND	10 0	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	"							
Carbon Ranges C28-C35	ND	10 0	"							
Total Hydrocarbons	ND	10 0	"							
Surrogate 1-Chlorooctane	58 6		mg/kg	50 0		117	70-130			
Surrogate 1-Chlorooctadecane	56 8		"	50.0		114	70-130			

LCS (EF70702-BS1)

Prepared: 06/07/07 Analyzed: 06/09/07

Carbon Ranges C6-C12	484	10 0	mg/kg wet	500		96 8	75-125			
Carbon Ranges C12-C28	393	10 0	"	500		78 6	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00			75-125			
Total Hydrocarbons	877	10 0	"	1000		87 7	75-125			
Surrogate 1-Chlorooctane	61 1		mg/kg	50 0		122	70-130			
Surrogate 1-Chlorooctadecane	56 4		"	50 0		113	70-130			

Calibration Check (EF70702-CCV1)

Prepared: 06/07/07 Analyzed: 06/09/07

Carbon Ranges C6-C12	221		mg/kg wet	250		88 4	80-120			
Carbon Ranges C12-C28	226		"	250		90 4	80-120			
Total Hydrocarbons	448		"	500		89 6	80-120			
Surrogate 1-Chlorooctane	64 6		mg/kg	50 0		129	70-130			
Surrogate 1-Chlorooctadecane	60 8		"	50 0		122	70-130			

Matrix Spike (EF70702-MS1)

Source: 7F06012-07

Prepared: 06/07/07 Analyzed: 06/09/07

Carbon Ranges C6-C12	468	10 0	mg/kg dry	509	ND	91 9	75-125			
Carbon Ranges C12-C28	444	10 0	"	509	41 6	79 1	75-125			
Carbon Ranges C28-C35	25 1	10 0	"	0 00	18 0		75-125			
Total Hydrocarbons	937	10 0	"	1020	59 6	86 0	75-125			
Surrogate 1-Chlorooctane	59 8		mg/kg	50 0		120	70-130			
Surrogate 1-Chlorooctadecane	54 3		"	50 0		109	70-130			

Environmental Lab of Texas

A Xenco Laboratories Company

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

Page 5 of 11

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Cram

Fax. (432) 367-6747

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 EF70702 - Solvent Extraction (GC)

Matrix Spike Dup (EF70702-MSD1) Source: 7F06012-07 Prepared: 06/07/07 Analyzed: 06/09/07

Carbon Ranges C6-C12	488	10.0	mg/kg dry	509	ND	95.9	75-125	4.26	20	
Carbon Ranges C12-C28	469	10.0	"	509	41.6	84.0	75-125	6.01	20	
Carbon Ranges C28-C35	25.5	10.0	"	0.00	18.0		75-125		20	
Total Hydrocarbons	983	10.0	"	1020	59.6	90.5	75-125	5.10	20	
Surrogate 1-Chlorooctane	61.8		mg/kg	50.0		124	70-130			
Surrogate 1-Chlorooctadecane	54.5		"	50.0		109	70-130			

Batch EF70703 - Solvent Extraction (GC)

Blank (EF70703-BLK1) Prepared: 06/07/07 Analyzed: 06/11/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate 1-Chlorooctane	42.1		mg/kg	50.0		84.2	70-130			
Surrogate 1-Chlorooctadecane	44.2		"	50.0		88.4	70-130			

LCS (EF70703-BS1) Prepared: 06/07/07 Analyzed: 06/11/07

Carbon Ranges C6-C12	491	10.0	mg/kg wet	500		98.2	75-125			
Carbon Ranges C12-C28	387	10.0	"	500		77.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	878	10.0	"	1000		87.8	75-125			
Surrogate 1-Chlorooctane	46.4		mg/kg	50.0		92.8	70-130			
Surrogate 1-Chlorooctadecane	44.3		"	50.0		88.6	70-130			

Calibration Check (EF70703-CCV1) Prepared: 06/07/07 Analyzed: 06/11/07

Carbon Ranges C6-C12	210		mg/kg wet	250		84.0	80-120			
Carbon Ranges C12-C28	235		"	250		94.0	80-120			
Total Hydrocarbons	445		"	500		89.0	80-120			
Surrogate 1-Chlorooctane	52.5		mg/kg	50.0		105	70-130			
Surrogate 1-Chlorooctadecane	50.1		"	50.0		100	70-130			

Environmental Lab of Texas
A Xenco Laboratories Company

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

Page 6 of 11

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

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 EF70703 - Solvent Extraction (GC)

Matrix Spike (EF70703-MS1) Source: 7F06027-01 Prepared: 06/07/07 Analyzed: 06/11/07

Carbon Ranges C6-C12	502	10 0	mg/kg dry	528	ND	95 1	75-125			
Carbon Ranges C12-C28	426	10 0	"	528	ND	80.7	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125			
Total Hydrocarbons	929	10 0	"	1060	ND	87 6	75-125			
Surrogate 1-Chlorooctane	56 7		mg/kg	50 0		113	70-130			
Surrogate 1-Chlorooctadecane	46 4		"	50 0		92 8	70-130			

Matrix Spike Dup (EF70703-MSD1) Source: 7F06027-01 Prepared: 06/07/07 Analyzed: 06/11/07

Carbon Ranges C6-C12	523	10 0	mg/kg dry	528	ND	99 1	75-125	4 12	20	
Carbon Ranges C12-C28	432	10 0	"	528	ND	81 8	75-125	1 35	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125		20	
Total Hydrocarbons	956	10 0	"	1060	ND	90 2	75-125	2 92	20	
Surrogate 1-Chlorooctane	50 5		mg/kg	50 0		101	70-130			
Surrogate 1-Chlorooctadecane	45 1		"	50 0		90.2	70-130			

Batch EF70705 - EPA 5030C (GC)

Blank (EF70705-BLK1) Prepared: 06/07/07 Analyzed: 06/08/07

Benzene	ND	0 00100	mg/kg wet							
Toluene	ND	0 00100	"							
Ethylbenzene	ND	0 00100	"							
Xylene (p/m)	ND	0 00100	"							
Xylene (o)	ND	0 00100	"							
Surrogate a,a,a-Trifluorotoluene	48 0		ug/kg	50.0		96 0	75-125			
Surrogate 4-Bromofluorobenzene	45 2		"	50.0		90 4	75-125			

LCS (EF70705-BS1) Prepared: 06/07/07 Analyzed: 06/08/07

Benzene	0 0538	0 00100	mg/kg wet	0 0500		108	80-120			
Toluene	0 0550	0 00100	"	0 0500		110	80-120			
Ethylbenzene	0 0535	0 00100	"	0 0500		107	80-120			
Xylene (p/m)	0 101	0.00100	"	0.100		101	80-120			
Xylene (o)	0 0561	0 00100	"	0 0500		112	80-120			
Surrogate a,a,a-Trifluorotoluene	51 9		ug/kg	50 0		104	75-125			
Surrogate 4-Bromofluorobenzene	50 6		"	50 0		101	75-125			

Environmental Lab of Texas
A Xenco Laboratories Company

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

Page 7 of 11

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

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 EF70705 - EPA 5030C (GC)

Calibration Check (EF70705-CCV1)

Prepared: 06/07/07 Analyzed: 06/08/07

Benzene	0.0548		mg/kg wet	0.0500		110	80-120			
Toluene	0.0537		"	0.0500		107	80-120			
Ethylbenzene	0.0489		"	0.0500		97.8	80-120			
Xylene (p/m)	0.0947		"	0.100		94.7	80-120			
Xylene (o)	0.0535		"	0.0500		107	80-120			
Surrogate a,a,a-Trifluorotoluene	52.8		ug/kg	50.0		106	75-125			
Surrogate 4-Bromofluorobenzene	45.8		"	50.0		91.6	75-125			

Matrix Spike (EF70705-MS1)

Source: 7F06002-01

Prepared: 06/07/07 Analyzed: 06/08/07

Benzene	0.102	0.00200	mg/kg dry	0.100	ND	102	80-120			
Toluene	0.101	0.00200	"	0.100	ND	101	80-120			
Ethylbenzene	0.0963	0.00200	"	0.100	ND	96.3	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200	ND	89.0	80-120			
Xylene (o)	0.0986	0.00200	"	0.100	ND	98.6	80-120			
Surrogate a,a,a-Trifluorotoluene	47.7		ug/kg	50.0		95.4	75-125			
Surrogate 4-Bromofluorobenzene	45.5		"	50.0		91.0	75-125			

Matrix Spike Dup (EF70705-MSD1)

Source: 7F06002-01

Prepared: 06/07/07 Analyzed: 06/08/07

Benzene	0.0973	0.00200	mg/kg dry	0.100	ND	97.3	80-120	4.72	20	
Toluene	0.0943	0.00200	"	0.100	ND	94.3	80-120	6.86	20	
Ethylbenzene	0.0929	0.00200	"	0.100	ND	92.9	80-120	3.59	20	
Xylene (p/m)	0.164	0.00200	"	0.200	ND	82.0	80-120	8.19	20	
Xylene (o)	0.0921	0.00200	"	0.100	ND	92.1	80-120	6.82	20	
Surrogate a,a,a-Trifluorotoluene	43.0		ug/kg	50.0		86.0	75-125			
Surrogate 4-Bromofluorobenzene	42.8		"	50.0		85.6	75-125			

Environmental Lab of Texas
A Xenco Laboratories Company

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

Page 8 of 11

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70801 - General Preparation (Prep)										
Blank (EF70801-BLK1)	Prepared & Analyzed: 06/08/07									
% Solids	100		%							
Duplicate (EF70801-DUP1)	Source: 7F06026-01		Prepared: 06/07/07 Analyzed: 06/08/07							
% Solids	96.1		%		95.4			0.731	20	
Duplicate (EF70801-DUP2)	Source: 7F06024-09		Prepared: 06/07/07 Analyzed: 06/08/07							
% Solids	88.6		%		88.5			0.113	20	
Duplicate (EF70801-DUP3)	Source: 7F07003-03		Prepared: 06/07/07 Analyzed: 06/08/07							
% Solids	83.3		%		97.1			15.3	20	
Duplicate (EF70801-DUP4)	Source: 7F06026-06		Prepared & Analyzed: 06/08/07							
% Solids	97.0		%		97.1			0.103	20	
Batch EF71106 - General Preparation (WetChem)										
Blank (EF71106-BLK1)	Prepared & Analyzed: 06/11/07									
Chloride	ND	20.0	mg/kg Wet							
LCS (EF71106-BS1)	Prepared & Analyzed: 06/11/07									
Chloride	91.5	10.0	mg/kg Wet	100		91.5	80-120			
Matrix Spike (EF71106-MS1)	Source: 7F06024-01		Prepared & Analyzed: 06/11/07							
Chloride	447	20.0	mg/kg Wet	500	63.8	76.6	80-120			QM-10
Matrix Spike Dup (EF71106-MSD1)	Source: 7F06024-01		Prepared & Analyzed: 06/11/07							
Chloride	468	20.0	mg/kg Wet	500	63.8	80.8	80-120	4.59	20	

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EF71106 - General Preparation (WetChem)

Reference (EF71106-SRM1)

Prepared & Analyzed: 06/11/07

Chloride	53.2	10.0	mg/kg Wet	50.0		106	80-120			
----------	------	------	-----------	------	--	-----	--------	--	--	--

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Burgundy EMU Lease
Project Number: 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-10 LCS/LCSD were analyzed in place of MS/MSD.

J 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: 

Date: 6/13/07

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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.

Environmental Lab of Texas
A Xenco Laboratories Company

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

Page 11 of 11

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Cindy Crain

Company Name

Ocotillo Environmental

Company Address:

2125 French Drive, P.O. Box 1816

City/State/Zip:

Topps NM 88241

Telephone No:

(505) 441-7244

Fax No:

(432) 367-6747

Sampler Signature:

Cindy Crain

Email:

Cindy. Crain @ gmail. com

Project Name:

Burgundy EMU Lease

Project #:

7-0201

Project Loc:

Monument, NM

PO #:

[illegible]

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo Env.
 Date/ Time: 6-6-07 16:00
 Lab ID #: 7P06026
 initials: GL

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>0.0</u> °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	<u>Not Present</u>	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	<u>ID written on Cont / Lid</u>	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	<u>Not Applicable</u>	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by EL0T?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	<u>Not Applicable</u>	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

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

Analytical Report 284712

for

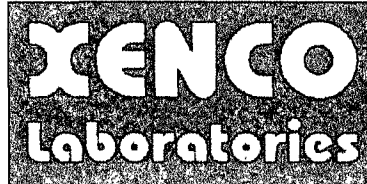
Ocotillo Environmental, LLC

Project Manager: Cindy Crane

Burgundy EMU Lease

7-0201

29-JUN-07



12600 West I-20 East Odessa, Texas 79765

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



29-JUN-07

Project Manager: **Cindy Crane**
Ocotillo Environmental, LLC
2125 French Drive
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **284712**
Burgundy EMU Lease
Project Address: Monument, NM

Cindy Crane:

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 284712. 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. 284712 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



Sample Cross Reference 284712



Ocotillo Environmental, LLC, Hobbs, NM
Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom (17')	S	Jun-20-07 09:40		284712-001
North Side	S	Jun-20-07 09:45		284712-002
South Side	S	Jun-20-07 09:50		284712-003
East Side	S	Jun-20-07 09:55		284712-004
West Side	S	Jun-20-07 10:00		284712-005



Certificate of Analysis Summary 284712

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease



Project Id: 7-0201

Contact: Cindy Crane

Project Location: Monument, NM

Date Received in Lab: Thu Jun-21-07 02:55 pm


Report Date: 29-JUN-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	284712-001	284712-002	284712-003	284712-004	284712-005	
	<i>Field Id:</i>	Bottom (17')	North Side	South Side	East Side	West Side	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Jun-20-07 09:40	Jun-20-07 09:45	Jun-20-07 09:50	Jun-20-07 09:55	Jun-20-07 10:00	
Inorganic Anions by EPA 300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jun-27-07 17:29	Jun-27-07 18:29	Jun-27-07 18:49	Jun-27-07 19:09	Jun-27-07 19:29	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		1920 0.582	1310 0.564	738 0.536	1010 0.539	865 0.541	
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jun-21-07 17:00	Jun-21-07 17:05	Jun-21-07 17:15	Jun-21-07 17:20	Jun-21-07 17:25	
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		14.2	11.3 1.00	6.67 1.00	7.15 1.00	7.64 1.00	
TPH by SW8015 Mod	<i>Extracted:</i>	Jun-23-07 09:14	Jun-23-07 09:14	Jun-23-07 09:14	Jun-23-07 09:14	Jun-23-07 09:14	
	<i>Analyzed:</i>	Jun-24-07 06:18	Jun-24-07 06:43	Jun-24-07 07:08	Jun-24-07 07:33	Jun-24-07 07:58	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 29.1	ND 28.2	75.6 26.8	ND 26.9	84.1 27.1	
C12-C28 Diesel Range Hydrocarbons		ND 29.1	ND 28.2	808 26.8	ND 26.9	727 27.1	
C28-C35 Oil Range Hydrocarbons		ND 29.1	ND 28.2	150 26.8	ND 26.9	146 27.1	
Total TPH		ND	ND	1033.6	ND	957.1	

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 user of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America


Brent Barron
Odessa Laboratory Director



Flagging Criteria



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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

11381 Meadowglen Lane Suite L Houston, Tx 77082-2647
9701 Harry Hines Blvd , Dallas, TX 75220
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238
3016 U S. HWY 301 North - Suite 900, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 284712

Project ID: 7-0201

Lab Batch #: 699120

Sample: 284705-022 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	45.4	50.0	91	70-135	
1-Chlorooctane	56.7	50.0	113	70-135	

Lab Batch #: 699120

Sample: 284705-022 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	42.9	50.0	86	70-135	
1-Chlorooctane	52.7	50.0	105	70-135	

Lab Batch #: 699120

Sample: 284712-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	40.3	50.0	81	70-135	
1-Chlorooctane	40.3	50.0	81	70-135	

Lab Batch #: 699120

Sample: 284712-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	40.2	50.0	80	70-135	
1-Chlorooctane	41.5	50.0	83	70-135	

Lab Batch #: 699120

Sample: 284712-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	41.1	50.0	82	70-135	
1-Chlorooctane	42.6	50.0	85	70-135	

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

*** Poor recoveries due to dilution

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

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



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 284712

Project ID: 7-0201

Lab Batch #: 699120

Sample: 284712-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	37.7	50.0	75	70-135	
1-Chlorooctane	38.8	50.0	78	70-135	

Lab Batch #: 699120

Sample: 284712-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	40.4	50.0	81	70-135	
1-Chlorooctane	41.3	50.0	83	70-135	

Lab Batch #: 699120

Sample: 496400-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	56.0	50.0	112	70-135	
1-Chlorooctane	61.5	50.0	123	70-135	

Lab Batch #: 699120

Sample: 496400-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	50.2	50.0	100	70-135	
1-Chlorooctane	46.9	50.0	94	70-135	
o-Terphenyl	ND	ND		70-135	*U

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

*** Poor recoveries due to dilution

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

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



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 284712

Project ID:

7-0201

Lab Batch #: 699338

Sample: 699338-1-BKS

Matrix: Solid

Date Analyzed: 06/27/2007

Date Prepared: 06/27/2007

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	ND	10.0	9.95	100	75-125	

Lab Batch #: 699120

Sample: 496400-1-BKS

Matrix: Solid

Date Analyzed: 06/24/2007

Date Prepared: 06/23/2007

Analyst: SHE

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TPH by SW8015 Mod	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
C6-C12 Gasoline Range Hydrocarbons	ND	500	536	107	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	402	80	70-135	

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

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



Form 3 - MS Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 284712

Lab Batch #: 699338

Date Analyzed: 06/27/2007

Date Prepared: 06/27/2007

Project ID: 7-0201

Analyst: LATCOR

QC- Sample ID: 284705-028 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	55.4	102	160	103	75-125	

Lab Batch #: 699338

Date Analyzed: 06/27/2007

Date Prepared: 06/27/2007

Analyst: LATCOR

QC- Sample ID: 284712-002 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	1310	1130	1930	55	75-125	X

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



Form 3 - MS / MSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 284712

Project ID: 7-0201

Lab Batch ID: 699120

QC- Sample ID: 284705-022 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/24/2007

Date Prepared: 06/23/2007

Analyst: SHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	548	683	125	548	662	121	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	548	583	106	548	537	98	8	70-135	35	

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

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

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



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 284712

Lab Batch #: 699338

Date Analyzed: 06/27/2007

QC- Sample ID: 284705-028 D

Reporting Units: mg/kg

Project ID: 7-0201

Date Prepared: 06/27/2007

Analyst: LATCOR

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	55.4	52.1	6	20	

Lab Batch #: 699338

Date Analyzed: 06/27/2007

QC- Sample ID: 284712-002 D

Reporting Units: mg/kg

Date Prepared: 06/27/2007

Analyst: LATCOR

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	1310	1280	2	20	

Lab Batch #: 698984

Date Analyzed: 06/21/2007

QC- Sample ID: 284705-015 D

Reporting Units: %

Date Prepared: 06/21/2007

Analyst: JLG

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	1.37	1.50	9	20	

Lab Batch #: 699100

Date Analyzed: 06/21/2007

QC- Sample ID: 284712-002 D

Reporting Units: %

Date Prepared: 06/21/2007

Analyst: CELKEE

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	11.3	11.6	3	20	

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

12600 West I-20 East
Odessa, Texas 79765

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

Project Name Burgundy EMU Lease

Project # 7-0201

Project Loc Monument, NM

PO #

Project Manager Linda Gray

Company Name Ocotillo Environmental

Company Address 2125 French Drive P.O. Box 1816

City/State/Zip: Hobbs, NM 88241

Telephone No (505) 441-7244

Fax No (152) 272-0304

Sampler Signature

Email Cindy.Crain@gmail.com

[illegible]

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

Client Octilio
Date/ Time 6:21 07 14:55
Lab ID # 284712
Initials AL

Sample Receipt Checklist

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

Variance Documentation

Contacted by _____ Date/ Time _____

Regarding _____

Corrective Action Taken

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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain

Project Name: Burgundy EMU Lease

Company Name Ocotillo Environmental

Project #: 7-0201

Company Address: 2125 French Drive, P.O. Box 1816

Project Loc: Monument, NM

City/State/Zip: Hobbs NM 88241

PO #:

Telephone No: (505) 441-7244 Fax No: (432) 272-0304

Fax No: (432) 272-0304

Sampler Signature: Cordis Crain

Email: Cindy.Crain@gmail.com

[illegible]

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client Ocotillo
 Date/ Time 6-21-07 14:55
 Lab ID # 284712
 Initials AL

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>-1.0 °C</u>	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	<u>Not Present</u>	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	<u>ID written on Cont./ Lid</u>	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	<u>Not Applicable</u>	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	<u>See Below</u>	
#13	Samples properly preserved?	<u>Yes</u>	No	<u>See Below</u>	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	<u>See Below</u>	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	<u>See Below</u>	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	<u>Not Applicable</u>	

Variance Documentation

Contacted by: _____ Date/ Time: _____

Regarding _____

Corrective Action Taken:

Check all that Apply:

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

Analytical Report 285805

for

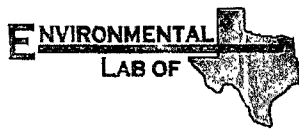
Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Burgundy EMU Lease

7-0201

19-JUL-07



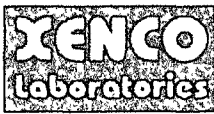
12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



19-JUL-07

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
2125 French Drive
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **285805**
Burgundy EMU Lease
Project Address: Monument, NM

Cindy Crain:

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 285805. 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. 285805 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



Sample Cross Reference 285805



Ocotillo Environmental, LLC, Hobbs, NM

Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
West Side	S	Jul-11-07 12:12		285805-001
South Side	S	Jul-11-07 12:20		285805-002
Bottom	S	Jul-11-07 12:30	20 - 20	285805-003



Certificate of Analysis Summary 285805

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease



Project Id: 7-0201

Contact: Cindy Crain

Project Location: Monument, NM

Date Received in Lab: Wed Jul-11-07 03:15 pm


Report Date: 19-JUL-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	285805-001	285805-002	285805-003			
	Field Id:	West Side	South Side	Bottom			
	Depth:			20-20			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Jul-11-07 12:12	Jul-11-07 12:20	Jul-11-07 12:30			
Inorganic Anions by EPA 300	Extracted:						
	Analyzed:	Jul-13-07 09:35	Jul-13-07 09:35	Jul-13-07 09:35			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		162 5 27	268 10 5	633 10 6			
Percent Moisture	Extracted:						
	Analyzed:	Jul-12-07 18:00	Jul-12-07 18:05	Jul-12-07 18:10			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		5.12	4.31	5.78			
TPH by SW8015 Mod	Extracted:	Jul-12-07 18:42	Jul-12-07 18:42	Jul-12-07 18:42			
	Analyzed:	Jul-13-07 19:45	Jul-13-07 20:10	Jul-13-07 20:34			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		ND 10.5	ND 10.5	ND 10.6			
C12-C28 Diesel Range Hydrocarbons		75.0 10.5	36.8 10.5	45.9 10.6			
C28-C35 Oil Range Hydrocarbons		34.9 10.5	21.6 10.5	25.3 10.6			
Total TPH		109.9	58.4	71.2			

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

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America


Brent Barron
Odessa Laboratory Director



Flagging Criteria

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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

11381 Meadowglen Lane Suite L Houston, Tx 77082-2647
9701 Harry Hines Blvd , Dallas, TX 75220
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238
2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 285805

Project ID: 7-0201

Lab Batch #: 700656

Sample: 285714-008 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	32.6	50.0	65	70-135	*
1-Chlorooctane	40.9	50.0	82	70-135	

Lab Batch #: 700656

Sample: 285714-008 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	32.8	50.0	66	70-135	*
1-Chlorooctane	38.3	50.0	77	70-135	

Lab Batch #: 700656

Sample: 285805-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	33.6	50.0	67	70-135	**
1-Chlorooctane	35.3	50.0	71	70-135	

Lab Batch #: 700656

Sample: 285805-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	33.9	50.0	68	70-135	**
1-Chlorooctane	36.0	50.0	72	70-135	

Lab Batch #: 700656

Sample: 285805-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	36.2	50.0	72	70-135	
1-Chlorooctane	38.2	50.0	76	70-135	

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

*** Poor recoveries due to dilution

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

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



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 285805

Project ID: 7-0201

Lab Batch #: 700656

Sample: 497156-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	35.1	50.0	70	70-135	
1-Chlorooctane	41.4	50.0	83	70-135	

Lab Batch #: 700656

Sample: 497156-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	38.6	50.0	77	70-135	
1-Chlorooctane	39.3	50.0	79	70-135	

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

*** Poor recoveries due to dilution

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

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



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 285805

Project ID:

7-0201

Lab Batch #: 700568

Sample: 700568-1-BKS

Matrix: Solid

Date Analyzed: 07/13/2007

Date Prepared: 07/13/2007

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	ND	10.0	9.95	100	75-125	

Lab Batch #: 700656

Sample: 497156-1-BKS

Matrix: Solid

Date Analyzed: 07/13/2007

Date Prepared: 07/12/2007

Analyst: CELKEE

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

TPH by SW8015 Mod	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
C6-C12 Gasoline Range Hydrocarbons	ND	500	527	105	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	426	85	70-135	

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

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



Form 3 - MS Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 285805

Lab Batch #: 700568

Date Analyzed: 07/13/2007

QC- Sample ID: 285714-001 S

Date Prepared: 07/13/2007

Project ID: 7-0201

Analyst: LATCOR

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	107	138	247	101	75-125	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 285805

Project ID: 7-0201

Lab Batch ID: 700656

QC- Sample ID: 285714-008 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/13/2007

Date Prepared: 07/12/2007

Analyst: CELKEE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	522	539	103	522	506	97	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	522	428	82	522	418	80	2	70-135	35	

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

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

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



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 285805

Lab Batch #: 700568

Project ID: 7-0201

Date Analyzed: 07/13/2007

Date Prepared: 07/13/2007

Analyst: LATCOR

QC- Sample ID: 285714-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	107	104	3	20	

Lab Batch #: 700234

Date Analyzed: 07/12/2007

Date Prepared: 07/12/2007

Analyst: JLG

QC- Sample ID: 285794-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	7.58	7.49	1	20	

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

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

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo Env.
 Date/ Time: 7-11-07 15:15
 Lab ID #: 285805
 Initials: al

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>6.0</u> °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	<u>Not Present</u>	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	<u>ID written on Cont/ Ltd</u>	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by EL0T?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

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

Analytical Report 287734

for

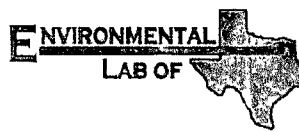
Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Burgundy EMU Lease

7-0201

18-AUG-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



18-AUG-07

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
2125 French Drive
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **287734**
Burgundy EMU Lease
Project Address: Lea County, NM

Cindy Crain:

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 287734. 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. 287734 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



Certificate of Analysis Summary 287734

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease



Project Id: 7-0201

Contact: Cindy Crain

Project Location: Lea County, NM

Date Received in Lab: Fri Aug-10-07 03:15 pm

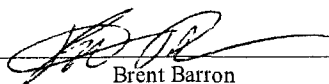
Report Date: 18-AUG-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	287734-001	287734-002	287734-003	287734-004	287734-005	
	Field Id:	SS-1 Bottom	SS-2 (North Side Wall Comp	SS-3 (West Side Wall Comp	SS-4 (South Side Wall Comp	SS-5 (East Side Wall Comp	
	Depth:	20-20 ft					
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Aug-09-07 09:16	Aug-09-07 10:01	Aug-09-07 10:40	Aug-09-07 10:22	Aug-09-07 09:41	
Percent Moisture	Extracted:						
	Analyzed:	Aug-13-07 11:15	Aug-13-07 09:20	Aug-13-07 16:19	Aug-14-07 18:30	Aug-14-07 18:35	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		5.62	7.91	7.16	3.63	3.6	
TPH by SW8015 Mod	Extracted:			Aug-15-07 16:17			
	Analyzed:			Aug-17-07 14:31			
	Units/RL:			mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons				ND 10.8			
C12-C28 Diesel Range Hydrocarbons				104 10.8			
C28-C35 Oil Range Hydrocarbons				11.0 10.8			
Total TPH				115			
Total Chloride by EPA 325.3	Extracted:				Aug-15-07 16:26	Aug-15-07 16:26	
	Analyzed:	Aug-15-07 16:26	Aug-15-07 16:26				
	Units/RL:	mg/kg RL	mg/kg RL		mg/kg RL	mg/kg RL	
Chloride		180 15.9	624 16.3		66.2 15.6	221 15.6	

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.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America


Brent Barron
Odessa Laboratory Director



Flagging Criteria

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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

11381 Meadowglen Lane Suite L Houston, Tx 77082-2647
9701 Harry Hines Blvd , Dallas, TX 75220
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238
2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 287734

Project ID: 7-0201

Lab Batch #: 702521

Sample: 287690-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	40.6	50.0	81	70-135	
1-Chlorooctane	43.1	50.0	86	70-135	

Lab Batch #: 702521

Sample: 287690-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	42.7	49.8	86	70-135	
1-Chlorooctane	38.0	49.8	76	70-135	

Lab Batch #: 702521

Sample: 287734-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	47.1	50.1	94	70-135	
1-Chlorooctane	42.7	50.1	85	70-135	

Lab Batch #: 702521

Sample: 498276-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	41.8	50.0	84	70-135	
1-Chlorooctane	40.8	50.0	82	70-135	

Lab Batch #: 702521

Sample: 498276-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	38.9	50.0	78	70-135	
1-Chlorooctane	35.2	50.0	70	70-135	

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

*** Poor recoveries due to dilution

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

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



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 287734

Project ID:

7-0201

Lab Batch #: 702521

Sample: 498276-1-BKS

Matrix: Solid

Date Analyzed: 08/16/2007

Date Prepared: 08/15/2007

Analyst: SHE

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
C6-C12 Gasoline Range Hydrocarbons	ND	500	471	94	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	456	91	70-135	

Lab Batch #: 702308

Sample: 702308-1-BKS

Matrix: Solid

Date Analyzed: 08/15/2007

Date Prepared: 08/15/2007

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	11.7	50.0	59.6	96	75-125	

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

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



Form 3 - MS / MSD Recoveries



Project Name: Burgundy EMU Lease

Work Order # 287734

Project ID: 7-0201

Lab Batch ID: 702521

QC- Sample ID: 287690-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/17/2007

Date Prepared: 08/15/2007

Analyst: SHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	531	512	498	0	510	ND	0	NC	70-135	35	X
C12-C28 Diesel Range Hydrocarbons	411	512	369	0	510	ND	0	NC	70-135	35	X

Lab Batch ID: 702308

QC- Sample ID: 287734-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/15/2007

Date Prepared: 08/15/2007

Analyst: IRO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Total Chloride by EPA 325.3 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	180	265	428	94	265	428	94	0	75-125	30	

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

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

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



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 287734

Lab Batch #: 702246

Date Analyzed: 08/13/2007

QC- Sample ID: 287690-001-D

Reporting Units: %

Date Prepared: 08/13/2007

Batch #: 1

Project ID: 7-0201

Analyst: JLG

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	5.16	4.34	17	20	

Lab Batch #: 702265

Date Analyzed: 08/14/2007

QC- Sample ID: 287734-004 D

Reporting Units: %

Date Prepared: 08/14/2007

Batch #: 1

Analyst: JLG

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	3.63	3.87	6	20	

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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

NPDES

287734

[illegible]

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

Client: Ocotillo
Date/ Time: 08-10-07@1515
Lab ID #: 287734
Initials: JMF

Sample Receipt Checklist

Client Initials

1 Temperature of container/ cooler?	<u>Yes</u>	No	25.0 °C	
2 Shipping container in good condition?	<u>Yes</u>	No		
3 Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>	
4 Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>	
5 Chain of Custody present?	<u>Yes</u>	No		
6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
8 Chain of Custody agrees with sample label(s)?	Yes	No	<u>ID written on Cont/ Lid</u>	
9 Container label(s) legible and intact?	Yes	No	<u>Not Applicable</u>	
10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
11 Containers supplied by ELOT?	<u>Yes</u>	No		
12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
13 Samples properly preserved? * 1 sample for TPA not cold	Yes	No	* See Below	
14 Sample bottles intact?	<u>Yes</u>	No		
15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
19 Subcontract of sample(s)?	Yes	<u>No</u>	Not Applicable	
20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: Cindy Crain Contacted by: Jeanne Fitch Date/ Time: 08-10-07@1515
Regarding: temperature for TPA

Corrective Action Taken:

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



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
OCOTILLO ENVIRONMENTAL, LLC
ATTN: CINDY CRAIN
P.O. BOX 1816
HOBBS, NM 88241
FAX TO: (432) 272-0304

Receiving Date: 09/04/07
Reporting Date: 09/06/07
Project Number: 7-0200
Project Name: ENU LEASE
Project Location: LEA COUNTY, NM

Analysis Date: 09/06/07
Sampling Date: 09/04/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AB
Analyzed By: KS

LAB NO.	SAMPLE ID	Cl ⁻ (mg/Kg)
H13225-1	SS-6	432
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

Note: Analysis performed on a 1:4 w:v aqueous extract.

Chemist

09/06/07
Date

H13225 OCO

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



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

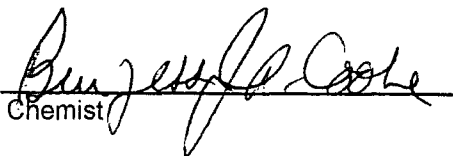
ANALYTICAL RESULTS FOR
OCOTILLO ENVIRONMENTAL LLC
ATTN: CINDY CRAIN
P.O. BOX 1816
HOBBS, NM 88241
FAX TO: (432) 272-0304

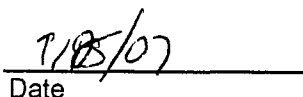
Receiving Date: 09/04/07
Reporting Date: 09/05/07
Project Owner: BURGUNDY
Project Name: ENU LEASE
Project Location: LEA COUNTY, NM

Sampling Date: 09/04/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AB
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)
		09/04/07	09/04/07
H13225-2	SS-7	<10.0	<10.0
Quality Control		771	779
True Value QC		800	800
% Recovery		96.4	97.4
Relative Percent Difference		3.7	4.0

METHOD: SW-846 8015 M


Chemist


Date

H13225A OCOTILLO

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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ocotillo Environmental LLC</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Cindy Crain</u>				P.O. #:				<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Chloride TPH (0015 M) </div>											
Address: <u>2125 French Pr.</u>				Company: <u>Ocotillo</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:															
Phone #: <u>505-441-7244</u> Fax #: <u>432-272-0304</u>				Address:															
Project #: <u>7-0200</u> Project Owner: <u>Bursundy</u>				City:															
Project Name: <u>Env Lease</u>				State: Zip:															
Project Location: <u>Lea County NM</u>				Phone #:															
Sampler Name: <u>Steve Cannon</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX				PRESERV		SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME					
<u>H13225-55-6</u>	<u>55-6</u>	<u>Q</u>	<u>1</u>			<u>✓</u>							<u>9-04-07</u>	<u>9:55</u>	<u>✓</u>				
<u>-755-7</u>	<u>755-7</u>	<u>Q</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>"</u>	<u>10:05</u>	<u>✓</u>				

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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.

Relinquished By:	Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:			432-272-0304	
Relinquished By:	Date: <u>9-4-07</u>	Received By:		
	Time: <u>11:35am</u>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>ATB</u>		

| Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
OCOTILLO ENVIRONMENTAL, LLC
ATTN: CINDY CRAIN
P.O. BOX 1816
HOBBS, NM 88241
FAX TO: (432) 272-0304

Receiving Date: 10/02/07
Reporting Date: 10/04/07
Project Number: 7-0200
Project Name: ENU LEASE
Project Location: LEA COUNTY, NM

Analysis Date: 10/03/07
Sampling Date: 10/02/07
Sample Type: SOIL
Sample Condition: INTACT
Sample Received By: SB
Analyzed By: KS

LAB NO.	SAMPLE ID	Cl ⁻ (mg/Kg)
H13422-1	SS-8	32
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods

4500-CI-B

Note: Analysis performed on a 1:4 w:v aqueous extract.

Kristen Supak
Chemist

Date 10/04/07

H13422 OCO

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



(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476