

NM1 - 19

MONITORING REPORTS

YEAR(S):
2004 - 1995

January 27, 2005

New Mexico Energy, Minerals, & Natural Resources Dept.
Oil Conservation Division Environmental Bureau
Attn: Mr. Wayne Price
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

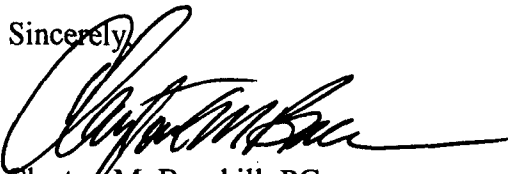
**Re: Submittal of Fourth Quarterly Monitoring Report for Year 2004
Gandy Marley Inc., Commercial Landfarm
Gandy Marley Inc., Operator / PRP
SW/4 of Section 4, SE/4 of Section 5, NE/4 of Section 8, & NW/4 of Section 9,
T. 11 S., R.31 E., NMPM
Chaves County, New Mexico
Commercial Landfarm Permit (NM-711-1-0020)**

Dear Mr. Price:

Clayton M. Barnhill, CMB Environmental and Geological Services Inc., on behalf of the owner/operator, Gandy Marley Inc., submits the attached Quarterly Monitoring Report for the above-mentioned site.

If you have any questions about the contents of the report, please do not hesitate to call me. Thank you.

Sincerely,



Clayton M. Barnhill, PG
NMED PTB Certified Scientist # 246
CMB Environmental & Geological Services, Inc.
PO Box 2304
Roswell, NM 88202-2304
(505) 622-2012 Phone and Fax
Cellular: (505) 626-1615
cmbenviro@dfn.com

**COVER PAGE
QUARTERLY MONITORING REPORT**

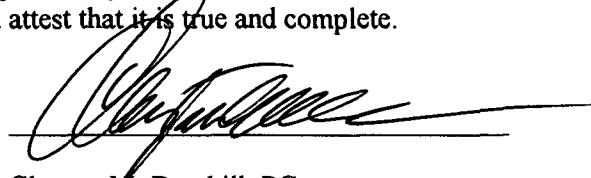
Please include the following information:

1. Site Name: **Gandy Marley Landfarm**
2. Responsible party: **Gandy Marley Inc.**
3. Responsible party mailing address (list contact person if different):
Gandy Marley Inc.
Attn: Larry Gandy, Vice President
PO Box 1658
Roswell, NM 88202-1658
4. Commercial Landfarm Permit Number: **NM-711-1-0020**
5. Address/legal description:
SW/4 of Section 4, SE/4 of Section 5, NE/4 of Section 8, & NW/4 of Section 9
T. 11 S. R. 31 E., NMPM
Chaves County, NM
6. Author/consulting company:
Clayton M. Barnhill, CMB Environmental & Geological Services, Inc.
7. Date of report: **January 27, 2005**

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature:



Name:

Clayton M. Barnhill, PG

Affiliation:

CMB Environmental and Geological Services, Inc.

Title:

Sr./Principal Geologist

Certified Scientist #:

0246, State of Texas Professional Geologist 6121, exp. 12/31/05

Date:

01/27/05

I. INTRODUCTION

CMB Environmental and Geological Services Inc., on behalf of Gandy Marley Inc., the owner/operator of the Gandy Marley Inc., Landfarm located in the SW/4 of Section 4, SE/4 of Section 5, NE/4 of Section 8, & NW/4 of Section 9, Township 11 South, Range 31 East, Chaves County, New Mexico, has prepared this quarterly monitoring report in accordance with conditions set forth in Commercial Landfarm Permit Number NM-711-1-0020 (Gandy Marley Inc., 1995 approved by the New Mexico Energy, Minerals, & Natural Resources Department Oil Conservation Division (NMOCD) Environmental Bureau on January 27, 1995.

The Gandy Marley Inc, Commercial Landfarm is located approximately 33 miles northwest of Tatum, NM in Sections 4, 5, 8 & 9, T. 11 S. R. 31 E., Chaves County, New Mexico (Figure 1). In August of 2000, the New Mexico Energy, Minerals, & Natural Resources Department Oil Conservation Division (NMOCD) Environmental Bureau approved a Commercial Landfarm Permit NM-711-1-0020. The commercial landfarm is being managed in accordance with the NMOCD approved Commercial Landfarm Permit NM-711-1-0020. Received soils on the landfarm are deposited in bermed cells in six-inch lifts and disked on a regular basis to enhance aeration. Groundwater below the site is at a depth of 150 feet below ground surface, and has a total dissolved solids concentration of approximately 11,900 milligrams per liter.

A. Scope of Work

The approved scope of work for the fourth quarter of monitoring consists of collecting confirmation soil samples beneath all site cells being actively landfarmed, analyzing the subsurface soil samples for total petroleum hydrocarbons (TPH), BTEX, general chemistry characteristics, major Cations & Anions, and RCRA 8 metals, and then produce a map showing the sample locations, and compiling and reporting data or analyses that demonstrate the media located in the remediation cell has been remediated to an acceptable level by the NMOCD Commercial Landfarm Permit NM-711-1-0020.

The soil sampling adequately monitored the vadose zone beneath the facility. Table 1 contains Trace Analysis Lab Sample Summary Reports of cell soil samples taken beneath each cell and remediated soil samples from certain cells.

The sampling protocol for the monitoring activities can be found in Appendix 1. Appendix 2 contains field notes, site photographs, and GPS Coordinates of sample points for this monitoring event, and laboratory analysis reports of soil samples are in Appendix 3.

B. Quarter Highlights

Fourth quarter monitoring was performed on December 10, 2004. This quarter's monitoring activities include the following:

- Collection of Remediation Cell Soil samples from landfarm remediation cells #1- 15 for laboratory analysis of the parameters outlined in section A above; and
- Preparation of this report.

ACTIVITIES PERFORMED DURING THIS QUARTER

C. Monitoring Activities

Landfarm Remediation cell soil samples were collected beneath the remediation cells and submitted to Trace Analysis Laboratory, located in Lubbock Texas and were analyzed for TPH using EPA Method 418.1, BTEX using EPA Method 8021B, hydroxide Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity, Total Alkalinity, Total Calcium, Chloride, Specific Conductance, Total Potassium, Total Magnesium, Total Sodium , pH, Sulfate, and TCLP Metals.

The soil sampling adequately monitored the vadose zone beneath the facility. Field parameters included site photographs, a lithologic description of the soil samples, and GPS location coordinates of the soil samples. Field Notes are found in Appendix 2. Soil Sample laboratory summary results, laboratory analysis reports and chain of custody forms are in Appendix 3.

II. SUMMARY AND CONCLUSIONS

A. Assessment of Remediation Activities:

Gandy Marley Inc. is highly effective at managing and remediating soils and operating a commercial landfarm facility.

Analyses from a soil sample of the remediated soils in Landfarm Cells # 1, 2, 3, 4, 8, 10, 11, 12, 13, and 14 show the remediated soils to contain less than <0.0100 PPM BTEX, <2500 PPM TPH. The contaminated media has been adequately remediated and meets the requirements of WQCC Regulation 3109. Additional soils can be added to these cells for future remediation.

The vadose zone beneath the facility has been adequately monitored by the subsurface soil samples collected beneath each cell in compliance with WQCC Regulation 3107. There has been no leaching of contaminated media into the vadose zone beneath the remediation cells. All sampled cells had BTEX soil concentrations below < 0.01 PPM, TPH Concentrations <10.0 PPM, Acceptable TCLP concentrations (with the exception of the Barium WQCC drinking water standard of 1.0 PPM), general soil chemistry parameters, and major anion and cation concentrations. Remediation cell # 4 soil sample had a chloride concentration of 372 PPM (the WQCC drinking water standard is 250 mg/l), but also had higher calcium, potassium, magnesium and sodium concentrations, indicating the deposited native soil salt concentrations were generally higher in this cell. The Barium Concentrations in all 15 cells ranged from 1.67 PPM in Cell # 3 to 3.05 PPM in Cell # 9 with an average of 1.81 PPM Barium concentration of the 15 cells actively being landfarmed. Groundwater below the site is at a depth of 150 feet below ground surface, and has a total dissolved solids concentration of approximately 11,900 milligrams per liter.

STATE OF TEXAS

BOARD OF PROFESSIONAL GEOSCIENTISTS

CLAYTON M. BARNHILL

Geology

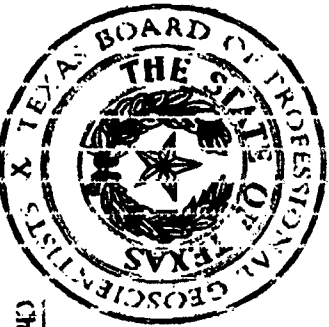
License Number

6131

In accordance with the provisions of the Texas Professional Geoscientists Act, the Texas Board of Professional Geoscientists hereby certifies that the above named individual was licensed as a Professional Geoscientist on August 31, 2003.

W. Kevin Coleman

Chairman, Texas Board of Professional Geoscientists



LIST OF FIGURES

Figure		Included	N/A
1	Site Map with soil sample locations plotted	X	
2	Satellite Image / Topographic Map with sample locations plotted	X	

Figure 1

Gandy Marley Landfarm (NM-711-0020)
OCD Cell Plat
Sec. 4 and 5, T11S-R31E
Chaves Co., NM

4

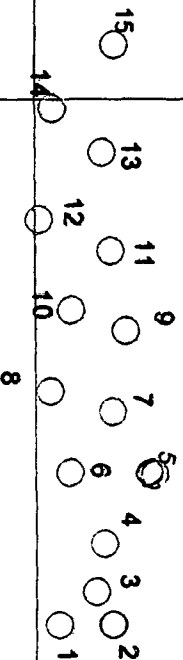
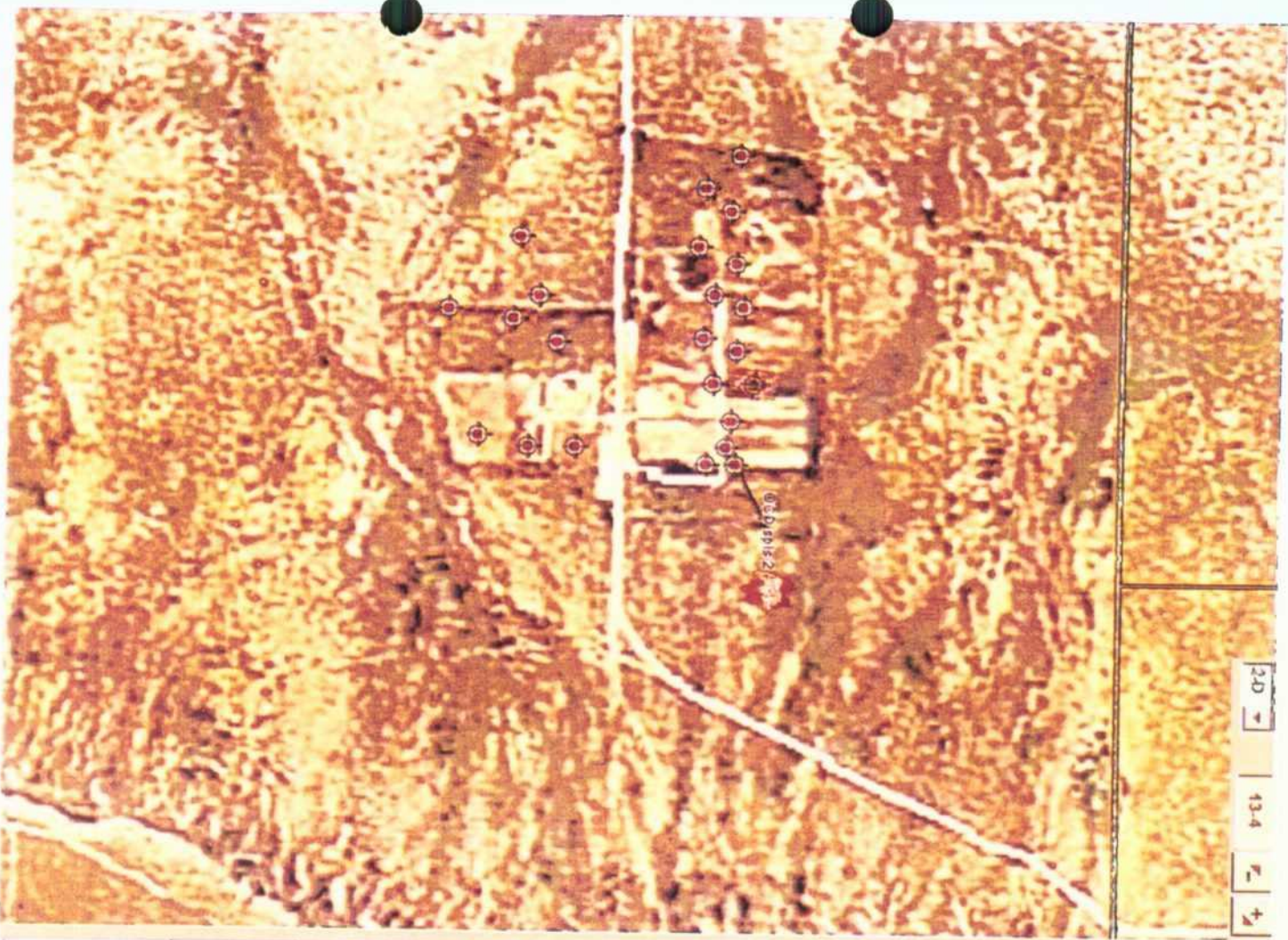
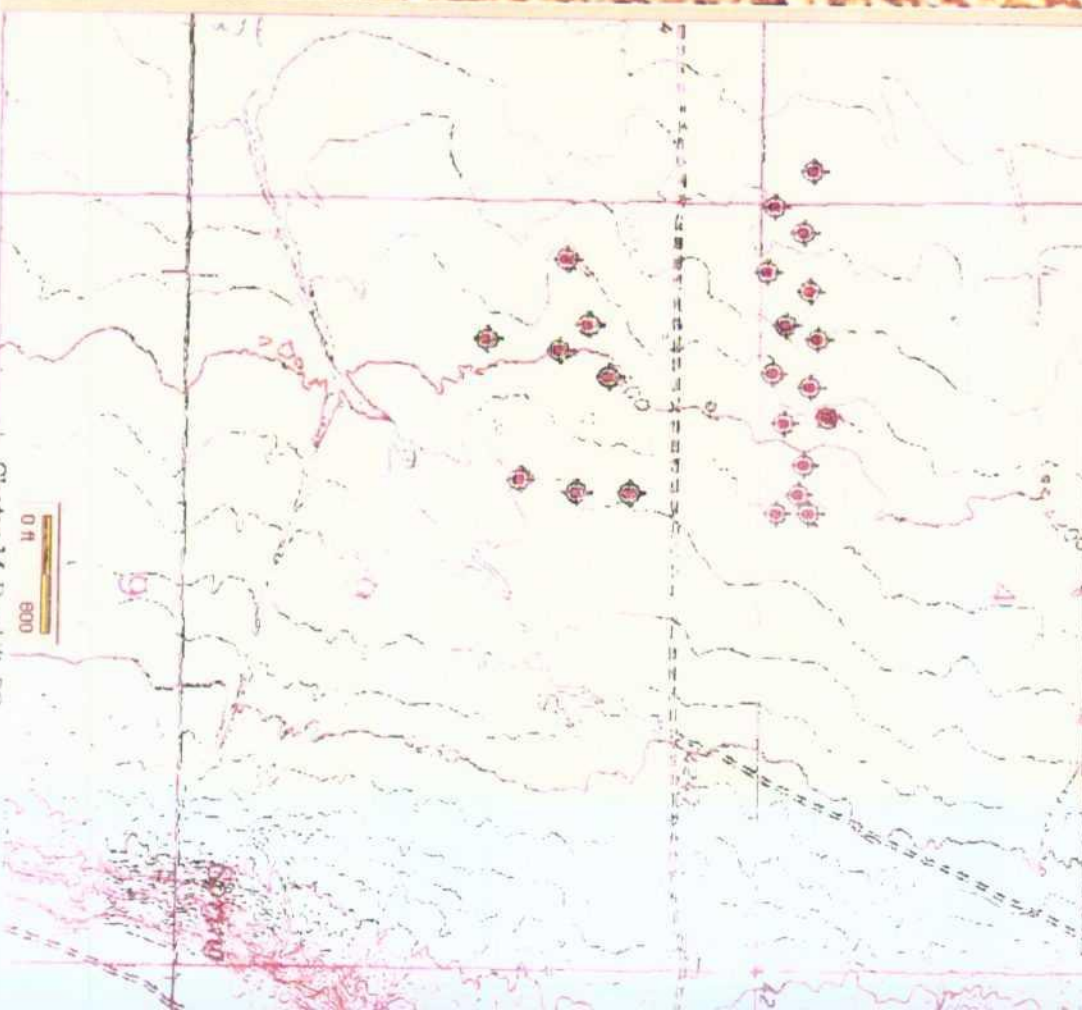


Figure 2



2D 13.4 7

Gandy Marley Landfarm
 Sec. 4,5,8, & 9, T11S-R31E
 Chaves Co., NM



Clayton M. Barnhill, PG
 CMB Environmental & Geological Services, Inc.
 PO Box 2304 Roswell, NM 88202-2304
 505-626-1615

LIST OF TABLES

Table	Included	N/A
1 Lab Analysis Summary Reports of Cell Soil Samples Analyses	X	

LIST OF APPENDICES

Appendix	Included	N/A
1 Sampling Protocol	X	
2 Field Notes / Site Photographs / GPS Coordinates of samples	X	
3 Laboratory Reports	X	

Table 1

Report Date: December 30, 2004
Annual Sampling (NM-711-1-0020)

Work Order: 4121407
Gandy Marley Land Farm

Page Number: 1 of 9
Sec4,Sec5,Sec8,Sec9 T.11.SR.31E

Summary Report

Larry Gandy
Gandy Marley Inc.
Box 1658
Roswell, NM 88202

Report Date: December 30, 2004

Work Order: 4121407

Project Location: Sec4,Sec5,Sec8,Sec9 T.11.SR.31E
Project Name: Gandy Marley Land Farm
Project Number: Annual Sampling (NM-711-1-0020)

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
50523	OCD Cell #1	soil	2004-12-10	14:25	2004-12-14
50524	OCD Cell #2	soil	2004-12-10	15:02	2004-12-14
50525	OCD Cell #3	soil	2004-12-10	15:25	2004-12-14
50526	OCD Cell #4	soil	2004-12-10	16:00	2004-12-14
50527	OCD Cell #5	soil	2004-12-11	09:51	2004-12-14
50528	OCD Cell #6	soil	2004-12-11	10:04	2004-12-14
50529	OCD Cell #7	soil	2004-12-11	10:18	2004-12-14
50530	OCD Cell #8	soil	2004-12-11	10:42	2004-12-14
50531	OCD Cell #9	soil	2004-12-11	11:08	2004-12-14
50532	OCD Cell #10	soil	2004-12-11	11:28	2004-12-14
50533	OCD Cell #11	soil	2004-12-11	11:35	2004-12-14
50534	OCD Cell #12	soil	2004-12-11	12:07	2004-12-14
50535	OCD Cell #13	soil	2004-12-11	12:28	2004-12-14
50536	OCD Cell #14	soil	2004-12-11	12:50	2004-12-14
50537	OCD Cell #15	soil	2004-12-11	13:25	2004-12-14

Sample - Field Code	BTEX				TPH 418.1 TRPHC
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	
50523 - OCD Cell #1	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50524 - OCD Cell #2	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50525 - OCD Cell #3	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50526 - OCD Cell #4	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50527 - OCD Cell #5	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50528 - OCD Cell #6	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50529 - OCD Cell #7	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50530 - OCD Cell #8	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50531 - OCD Cell #9	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50532 - OCD Cell #10	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50533 - OCD Cell #11	<0.0100	<0.0100	<0.0100	0.0106	<10.0
50534 - OCD Cell #12	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50535 - OCD Cell #13	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50536 - OCD Cell #14	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50537 - OCD Cell #15	<0.0100	<0.0100	<0.0100	<0.0100	<10.0

Sample: 50523 - OCD Cell #1

Report Date: December 30, 2004
Annual Sampling (NM-711-1-0020)

Work Order: 4121407
Gandy Marley Land Farm

Page Number: 2 of 9
Sec4,Sec5,Sec8,Sec9 T.11.SR.31E

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		60.0	mg/Kg as CaCo3	4.00
Total Alkalinity		60.0	mg/Kg as CaCo3	4.00
Total Calcium		98200	mg/Kg	50.0
Chloride		33.4	mg/Kg	1.00
Specific Conductance		732	μMHOS/cm	0.00
Total Potassium		2360	mg/Kg	50.0
Total Magnesium		4130	mg/Kg	50.0
Total Sodium		487	mg/Kg	50.0
pH		8.37	s.u.	0.00
Sulfate		217	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.26	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50524 - OCD Cell #2

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		80.0	mg/Kg as CaCo3	4.00
Total Alkalinity		80.0	mg/Kg as CaCo3	4.00
Total Calcium		13500	mg/Kg	50.0
Chloride		28.0	mg/Kg	1.00
Specific Conductance		568	μMHOS/cm	0.00
Total Potassium		2810	mg/Kg	50.0
Total Magnesium		3630	mg/Kg	50.0
Total Sodium		762	mg/Kg	50.0
pH		8.50	s.u.	0.00
Sulfate		85.7	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.18	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50525 - OCD Cell #3

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		46.0	mg/Kg as CaCo3	4.00
Total Alkalinity		46.0	mg/Kg as CaCo3	4.00

continued ...

sample 50525 continued ...

Param	Flag	Result	Units	RL
Total Calcium		6300	mg/Kg	50.0
Chloride		29.0	mg/Kg	1.00
Specific Conductance		898	μ MHOS/cm	0.00
Total Potassium		1900	mg/Kg	50.0
Total Magnesium		2830	mg/Kg	50.0
Total Sodium		158	mg/Kg	50.0
pH		8.24	s.u.	0.00
Sulfate		359	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		1.67	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50526 - OCD Cell #4

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		154	mg/Kg as CaCo3	4.00
Total Alkalinity		154	mg/Kg as CaCo3	4.00
Total Calcium		42500	mg/Kg	50.0
Chloride		372	mg/Kg	1.00
Specific Conductance		1920	μ MHOS/cm	0.00
Total Potassium		1470	mg/Kg	50.0
Total Magnesium		1840	mg/Kg	50.0
Total Sodium		1370	mg/Kg	50.0
pH		8.74	s.u.	0.00
Sulfate		452	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		1.91	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50527 - OCD Cell #5

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		44.0	mg/Kg as CaCo3	4.00
Total Alkalinity		44.0	mg/Kg as CaCo3	4.00
Total Calcium		221000	mg/Kg	50.0
Chloride		11.6	mg/Kg	1.00

continued ...

sample 50527 continued ...

Param	Flag	Result	Units	RL
Specific Conductance		289	μ MHOS/cm	0.00
Total Potassium		1010	mg/Kg	50.0
Total Magnesium		2220	mg/Kg	50.0
Total Sodium		208	mg/Kg	50.0
pH		8.49	s.u.	0.00
Sulfate		73.6	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.51	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50528 - OCD Cell #6

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		56.0	mg/Kg as CaCo3	4.00
Total Alkalinity		56.0	mg/Kg as CaCo3	4.00
Total Calcium		78000	mg/Kg	50.0
Chloride		65.5	mg/Kg	1.00
Specific Conductance		1090	μ MHOS/cm	0.00
Total Potassium		2780	mg/Kg	50.0
Total Magnesium		6610	mg/Kg	50.0
Total Sodium		738	mg/Kg	50.0
pH		8.29	s.u.	0.00
Sulfate		417	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		1.81	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50529 - OCD Cell #7

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		58.0	mg/Kg as CaCo3	4.00
Total Alkalinity		58.0	mg/Kg as CaCo3	4.00
Total Calcium		88500	mg/Kg	50.0
Chloride		10.5	mg/Kg	1.00
Specific Conductance		375	μ MHOS/cm	0.00
Total Potassium		2110	mg/Kg	50.0

continued ...

sample 50529 continued ...

Param	Flag	Result	Units	RL
Total Magnesium		3310	mg/Kg	50.0
Total Sodium		207	mg/Kg	50.0
pH		8.36	s.u.	0.00
Sulfate		94.2	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.51	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50530 - OCD Cell #8

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		50.0	mg/Kg as CaCo3	4.00
Total Alkalinity		50.0	mg/Kg as CaCo3	4.00
Total Calcium		40500	mg/Kg	50.0
Chloride		89.3	mg/Kg	1.00
Specific Conductance		1150	μMHOS/cm	0.00
Total Potassium		2920	mg/Kg	50.0
Total Magnesium		6630	mg/Kg	50.0
Total Sodium		718	mg/Kg	50.0
pH		8.24	s.u.	0.00
Sulfate		446	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		1.90	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50531 - OCD Cell #9

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		53.3	mg/Kg as CaCo3	4.00
Total Alkalinity		53.3	mg/Kg as CaCo3	4.00
Total Calcium		13200	mg/Kg	50.0
Chloride		356	mg/Kg	1.00
Specific Conductance		1140	μMHOS/cm	0.00
Total Potassium		1300	mg/Kg	50.0
Total Magnesium		3080	mg/Kg	50.0
Total Sodium		218	mg/Kg	50.0

continued ...

sample 50531 continued ...

Param	Flag	Result	Units	RL
pH		8.14	s.u.	0.00
Sulfate		46.8	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		3.05	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50532 - OCD Cell #10

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		5.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		90.0	mg/Kg as CaCo3	4.00
Total Alkalinity		95.0	mg/Kg as CaCo3	4.00
Total Calcium		79400	mg/Kg	50.0
Chloride		183	mg/Kg	1.00
Specific Conductance		821	µMHOS/cm	0.00
Total Potassium		2160	mg/Kg	50.0
Total Magnesium		6120	mg/Kg	50.0
Total Sodium		772	mg/Kg	50.0
pH		8.76	s.u.	0.00
Sulfate		44.8	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.77	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50533 - OCD Cell #11

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		48.0	mg/Kg as CaCo3	4.00
Total Alkalinity		48.0	mg/Kg as CaCo3	4.00
Total Calcium		124000	mg/Kg	50.0
Chloride		80.5	mg/Kg	1.00
Specific Conductance		471	µMHOS/cm	0.00
Total Potassium		1620	mg/Kg	50.0
Total Magnesium		4060	mg/Kg	50.0
Total Sodium		663	mg/Kg	50.0
pH		8.42	s.u.	0.00
Sulfate		67.1	mg/Kg	2.00

continued ...

sample 50533 continued ...

Param	Flag	Result	Units	RL
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.29	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50534 - OCD Cell #12

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		55.0	mg/Kg as CaCo3	4.00
Total Alkalinity		55.0	mg/Kg as CaCo3	4.00
Total Calcium		41900	mg/Kg	50.0
Chloride		12.5	mg/Kg	1.00
Specific Conductance		577	μMHOS/cm	0.00
Total Potassium		2050	mg/Kg	50.0
Total Magnesium		3070	mg/Kg	50.0
Total Sodium		167	mg/Kg	50.0
pH		8.27	s.u.	0.00
Sulfate		270	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.17	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50535 - OCD Cell #13

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		50.0	mg/Kg as CaCo3	4.00
Total Alkalinity		50.0	mg/Kg as CaCo3	4.00
Total Calcium		32700	mg/Kg	50.0
Chloride		372	mg/Kg	1.00
Specific Conductance		1330	μMHOS/cm	0.00
Total Potassium		1900	mg/Kg	50.0
Total Magnesium		3200	mg/Kg	50.0
Total Sodium		206	mg/Kg	50.0
pH		8.14	s.u.	0.00
Sulfate		58.0	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100

continued ...

sample 50535 continued ...

Param	Flag	Result	Units	RL
TCLP Barium		2.40	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50536 - OCD Cell #14

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		62.0	mg/Kg as CaCo3	4.00
Total Alkalinity		62.0	mg/Kg as CaCo3	4.00
Total Calcium		86400	mg/Kg	50.0
Chloride		46.1	mg/Kg	1.00
Specific Conductance		323	μMHOS/cm	0.00
Total Potassium		1450	mg/Kg	50.0
Total Magnesium		3380	mg/Kg	50.0
Total Sodium		365	mg/Kg	50.0
pH		8.78	s.u.	0.00
Sulfate		43.6	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.89	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50537 - OCD Cell #15

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		43.0	mg/Kg as CaCo3	4.00
Total Alkalinity		43.0	mg/Kg as CaCo3	4.00
Total Calcium		8060	mg/Kg	50.0
Chloride		93.7	mg/Kg	1.00
Specific Conductance		489	μMHOS/cm	0.00
Total Potassium		1800	mg/Kg	50.0
Total Magnesium		2040	mg/Kg	50.0
Total Sodium		121	mg/Kg	50.0
pH		8.25	s.u.	0.00
Sulfate		31.5	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.33	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500

continued ...

Report Date: December 30, 2004
Annual Sampling (NM-711-1-0020)

Work Order: 4121407
Gandy Marley Land Farm

Page Number: 9 of 9
Sec4,Sec5,Sec8,Sec9 T.11.SR.31E

sample 50597 continued ...

Param	Flag	Result	Units	RL
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Report Date: December 20, 2004
Remediated Surface Soil Sampling

Work Order: 4121406
Gandy Marley Land Farm

Page Number: 1 of 1
Chaves Co.,NM, Sec 4,5,8,9, T.11.S T31E

Summary Report

Larry Gandy
Gandy Marley Inc.
Box 1658
Roswell, NM 88202

Report Date: December 20, 2004

Work Order: 4121406

Project Location: Chaves Co.,NM, Sec 4,5,8,9, T.11.S T31E
Project Name: Gandy Marley Land Farm
Project Number: Remediated Surface Soil Sampling

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
50512	Remediated OCD Cell #1 Surface Soil	soil	2004-12-10	14:45	2004-12-14
50513	Remediated OCD Cell #2 Surface Soil	soil	2004-12-10	15:10	2004-12-14
50514	Remediated OCD Cell #3 Surface Soil	soil	2004-12-10	15:30	2004-12-14
50515	Remediated OCD Cell #4 Surface Soil	soil	2004-12-10	16:10	2004-12-14
50516	Remediated OCD Cell #8 Surface Soil	soil	2004-12-11	10:50	2004-12-14
50517	Remediated OCD Cell #9 Surface Soil	soil	2004-12-11	11:15	2004-12-14
50518	Remediated OCD Cell #10 Surface Soil	soil	2004-12-11	11:35	2004-12-14
50519	Remediated OCD Cell #11 Surface Soil	soil	2004-12-11	11:55	2004-12-14
50520	Remediated OCD Cell #12 Surface Soil	soil	2004-12-11	12:11	2004-12-14
50521	Remediated OCD Cell #13 Surface Soil	soil	2004-12-10	12:35	2004-12-14
50522	Remediated OCD Cell #14 Surface Soil	soil	2004-12-11	12:55	2004-12-14

Sample - Field Code	BTX				TPH 418.1 TRPHC
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	
50512 - Remediated OCD Cell #1 Surface Soil	<0.0100	<0.0100	<0.0100	<0.0100	1600
50513 - Remediated OCD Cell #2 Surface Soil	<0.0100	<0.0100	<0.0100	<0.0100	26.3
50514 - Remediated OCD Cell #3 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	78.9
50515 - Remediated OCD Cell #4 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	74.5
50516 - Remediated OCD Cell #8 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	184
50517 - Remediated OCD Cell #9 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	4050
50518 - Remediated OCD Cell #10 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	99.7
50519 - Remediated OCD Cell #11 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	<10.0
50520 - Remediated OCD Cell #12 Surface Soil	<0.0100	<0.0100	<0.0100	<0.0100	27.2
50521 - Remediated OCD Cell #13 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	503
50522 - Remediated OCD Cell #14 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	242

Appendix 1
Sampling Protocol

Appendix 1 Sampling Protocol

Site Remediation cells were checked for the presence of phase-separated hydrocarbons (PSH).

A Gandy Marley Inc. owned and operated front end loader dug down with the loader bucket 18" inches to 24" inches below the surface of the remediation cell. An 8" inch loader mounted drill auger was then used to create a soil boring below the exposed soil surface to a depth of 36" inches below the original ground surface of the remediation cell. An AMS 3" inch Stainless steel hand auger was then used by Clayton M. Barnhill, PG (CMB Environmental & Geological Services Inc.) to collect the soil samples beneath the remediation cells. The AMS stainless steel auger was de-contaminated between sample points by cleaning with a brush in an Alconox soap solution and then rinsing with potable water. New Nitrile gloves were changed at each sample point to avoid cross contamination. Borings were backfilled with impermeable bentonite pellets and hydrated.

Samples analyzed for TPH 418.1, BTEX 8021, major cations and anions, general chemistry characteristics, and RCRA 8 Metals. Soil Samples were collected in two 4 ounce glass jars containing no preservative

Samples were immediately placed on ice in an insulated cooler and were delivered to the Trace Analysis Laboratory, located in Lubbock, Texas, for analysis. Chain of custody documentation accompanied the samples at all times.

Appendix 2
Field Notes / Site Photographs / GPS Coordinates

Page 1 of 10 Bgs: CMB

OCD Cell #1:

Sample GPS Coordinates:

N 33° 23' 11.0"

W 103° 49' 43.0"

JPEG Photo #9 Sample depth = 53" BGS.

Sampled @ 14:25 Red clayey --- on sticky

fine gr. sand. to med. gr. well sorted sand. 2x 402/5/6/7 Jars/No Pres.

Forc. TPH 418.1, Rock Metals,

BTEX 802.1, Na, Co, Mg, K, Cl, SO₄,

CO₃, HCO₃, pH, Conductivity, T Alkalinity (2x 402/5/6/7 Jars/No Pres.)

Sampled Remediated 50.1 Surface

OCD Cell #1 @ 14:45 For

Same 44 analysis as above.

BTEX 802.1, TPH 418.1

Page 2 of 10 Bgs: CMB

OCD Cell #2

Sample GPS Coordinates:

N 33° 23' 13.2"

W 103° 43' 43.1"

JPEG Photo #10

Sampled @ 15:02 Red clayey

med gr. sand. @ 50" BGS

Forc. TPH 418.1, Rock Metals,

Carbous & Anions (2x 402/5/6/7 Jars/No Pres.)

Sampled Remediated Soil Surface

OCD Cell #2 @ 15:10

For BTEX 802.1, TPH 418.1

Location: Candy Marley Landfarm Date: 12/10/04
 Project / Client: Quarterly Sampling by: CMB

Page 3 of 10 By: CMB

OCD Cell #3

Sample GPS Coordinates

N 330 23' 12.5"

W. 1030 45' 44.6"

JPEG Photo # 11

Sampled @ 15:25 @ 58" BGS

Red clayey sand no odor or stickiness
 med. gr. sand-clayey

TPH 418.1, BCAA metals, major

CAUTIONS & AVOIDS (2x 402/6/Tars/None)

Sampled Remediated Soil Surface
 OCD Cell # 3 @ 15:30

For TPH 418.1, BTEX 802.1

Location: Candy Marley Landfarm Date: 12/10/04
 Project / Client: Quarterly Sampling by: CMB

Page 4 of 10 By: CMB

OCD Cell #4

Sample GPS Coordinates

N 330 23' 12.8"

W. 1030 49' 46.9"

JPEG Photo # 12

Sampled @ 16:00 @ 48" BGS

2x 402/6/Tars/No Presumptive

TPH 418.1, BCAA metals,

major tars & AVOIDS

Sampled Remediated Soil

Surface OCD Cell # 4 @ 16:10

2x 402/6/Tars/None For

TPH 418.1, BTEX 802.1

Charles Co. N.M.

Playton in Barrenish, R.C.

Page 5 of 10 Pg. One

OCD Cell #5

Sample GRS Coordinates

N 33° 23' 13.2"

W 103° 49' 49.3"

Spec Photo #13

Sampled @ 0951 @ 48 " BGS

2x 402/6/Tars/No Pres.

For TPT 418.1, RCM metals,

Major Catrains & Arrows

Brown, Tan, white, Caliche med. gr.

well sorted clayey sand mixture

No odor or staining

OCD Cell #6 : Sample GRS Coordinates

N 33° 23' 11.4"

W 103° 49' 50.3"

Spec Photo #14

Sampled @ 10:04 @ 44" BGS

Tar to Brown clayey sand, Caliche mixture

med. gr. sand, well sorted no odor or stain

2x 402/6/Tars/No Preservative For

TPT 418.1, RCM metals, Major Catrains & Arrows

Charles Co. N.M.

Playton in Barrenish, R.C.

Page 6 of 10 Pg. One

OCD Cell #7: Sample GRS Coordinates

N 33° 23' 13.1"

W 103° 49' 53.2"

Spec Photo #15

Sampled @ 10:18 @ 48 " BGS

2x 402/6/Tars/No Pres. For:

TPT 418.1, RCM metals, Major

Catrains & Arrows

Brown, Tan - white, sand / caliche

mixture, med. gr. well sorted

clayey sand no odor or staining

OCD Cell #8 : Sample GRS Coordinates

N 33° 23' 10.6"

W 103° 49' 54.2"

Spec Photo #16

Sampled @ 10:42 @ 48 " BGS

2x 402/6/Tars/No Preservative For

TPT 418.1, RCM metals / Major

Catrains & Arrows Brown / Caliche Sand

mix, no odor or staining

Sampled Remediated Surface Soil

@ 10:50 For TPT 418.1, BGS BGS

Charles G. N.M. 12/11/04

Clayton M. Barab. N. M. Page 70-10 Pg: CMB

CCD Cell #9: Sample GPS Coordinates

N 33°23'13.6" W 103°44'57.1"

Spec Photo #17

Sample @ 11:08 @ 47 "BGS

2x 4oz/5/5oz/No Preservation

For TPT 4/8.1, Rca metals,

Major Catons & Aruvis

Tan brown clayey sand, minor

caliche, med. gr. well sorted sand.

No odor or staining

Sampled CCD Cell #9 Remediated

Soil Surface @ 11:15 hr. for

TPT 4/8.1, BTEX 802/

CCD Cell #10: Sample GPS Coordinates

N 33°23'10.4" W 103°49'58.1"

Spec Photo #18 Sample @ 11:28 @ 48 "BGS

2x 4oz/6/5oz/No Pres. For TPT 4/8.1

Rca & metals, Major Catons & Aruvis

Tan brown caliche med gr. sand mix. No odor or staining

Sampled CCD Cell #10 Remediated

Surface @ 11:35 For TPT 4/8.1

BTEX 802/

Charles G. N.M. 12/11/04

Clayton M. Barab. N. M. Page 50-10 Pg: CMB

CCD Cell #11: Sample GPS Coordinates

N 33°23'13.0" W 103°52'00.9"

Spec Photo #19

Sample @ 11:50 @ 52 "BGS

At 4oz/6/5oz/No Pres. For

TPT 4/8.1, Rca & metals

Major Catons & Aruvis

Sampled CCD Cell #11 Remediated

Soil Surface @ 11:55 hour

For TPT 4/8.1, BTEX 802/

CCD Cell #12: Sample GPS Coordinates

N 33°23'10.1" W 103°56'02.4"

Spec Photo #20

Sample @ 12:07 @ 68 "BGS

2x 4oz/6/5oz/No Preservation

For TPT 4/8.1, Rca & metals, Major

Catons & Aruvis Brown clayey sand

Med gr. well sorted No odor or staining

Sampled CCD Cell #12 Remediated

Surface @ 12:11 For TPT 4/8.1 BTEX 802/

Charles Co. N.M.

12/11/04

Dayton M Barnhill, Jr

Page 9 of 10 By: CMS

OCD Cell #13: GPS Coordinates

N 33° 23' 12.6" N 103° 50' 05.5" ^{of Sample}

JPEC Photo # 21

Sample @ 12:28 @ 48" BGS

2x 4oz/6 Jars / No Pres. For TPH

RCM Metals, Major Cations & Anions

Reddish brown med gr. well sorted clayey

Sand, No odor or stringing

Sampled remediated Surface @

12:35 hour for TPH 4181 & BTEX 8021

OCD Cell #14: GPS Coordinates of Sample

N 33° 23' 10.6" N 103° 50' 07.7"

JPEC Photo # 22 Sampled @ 12:50 @ 48" BGS

2x 4oz/6 Jars / No Preservative for

TPH, RCM Metals, Major Cations &

Anions: Tan, brown, white, Sand/Calcitic

matrix. med. gr. well sorted Sand. No odor or

stringing

Sampled Remediated Surface

@ 12:55 For TPH, BTEX 8021

Charles Co. N.M.

12/11/04

Dayton M Barnhill, Jr

Page 10 of 10 By: CMS

OCD Cell #15: GPS Coordinates of Sample

N 33° 23' 13.1" N 103° 50' 10.7"

JPEC Photo # 23

Sample @ 13:25 @ 48" BGS

2x 4oz/6 Jars / No Preservative

For TPH, RCM Metals, Major Cations

& Anions Red med gr. well sorted &

Sand. No odor or stringing.

Gandy Marley Landfarm (NM-711-1-0020)

***SW/4 of Section 4, SE/4 of Section 5, NE/4 of Section 8 and the NW/4 of Section 9,
Township 11 South, Range 31 East, NMPM Chaves County, New Mexico***



OCD Cell #1 Sample
N 33° 23' 11.0"
W 103° 49' 43.0"



OCD Cell #2 Sample
N 33° 23' 13.2"
W 103° 49' 43.0"



OCD Cell # 3 Sample
N 33° 23' 12.5"
W 103° 45' 44.6"



OCD Cell # 4 Sample
N 33° 23' 12.8"
W 103° 49' 46.9"



OCD Cell # 5 Sample
N 33° 23' 13.2"
W 103° 49' 49.3"



OCD Cell # 6 Sample
N 33° 23' 11.4"
W 103° 49' 50.3"



OCD Cell # 7 Sample
N 33° 23' 13.1"
W 103° 49' 53.2"



OCD Cell # 8 Sample
N 33° 23' 10.6"
W 103° 49' 54.2"



OCD Cell # 9 Sample
N 33° 23' 13.6"
W 103° 49' 57.1"



OCD Cell # 10 Sample
N 33° 23' 10.4"
W 103° 49' 58.1"



OCD Cell # 11 Sample
N 33° 23' 13.0"
W 103° 50' 00.9"



OCD Cell # 12 Sample
N 33° 23' 10.1"
W 103° 50' 02.4"



OCD Cell # 13 Sample
N 33° 23' 12.6"
W 103° 50' 05.6"



OCD Cell # 14 Sample
N 33° 23' 10.6"
W 103° 50' 07.7"



OCD Cell # 15 Sample
N 33° 23' 13.1"
W 103° 50' 10.7"

Appendix 3
Laboratory Reports

Report Date: December 20, 2004
Remediated Surface Soil Sampling

Work Order: 4121406
Gandy Marley Land Farm

Page Number: 1 of 1
Chaves Co., NM, Sec 4,5,8,9, T.11.S T31E

Summary Report

Larry Gandy
Gandy Marley Inc.
Box 1658
Roswell, NM 88202

Report Date: December 20, 2004

Work Order: 4121406

Project Location: Chaves Co., NM, Sec 4,5,8,9, T.11.S T31E
Project Name: Gandy Marley Land Farm
Project Number: Remediated Surface Soil Sampling

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
50512	Remediated OCD Cell #1 Surface Soil	soil	2004-12-10	14:45	2004-12-14
50513	Remediated OCD Cell #2 Surface Soil	soil	2004-12-10	15:10	2004-12-14
50514	Remediated OCD Cell #3 Surface Soil	soil	2004-12-10	15:30	2004-12-14
50515	Remediated OCD Cell #4 Surface Soil	soil	2004-12-10	16:10	2004-12-14
50516	Remediated OCD Cell #8 Surface Soil	soil	2004-12-11	10:50	2004-12-14
50517	Remediated OCD Cell #9 Surface Soil	soil	2004-12-11	11:15	2004-12-14
50518	Remediated OCD Cell #10 Surface Soil	soil	2004-12-11	11:35	2004-12-14
50519	Remediated OCD Cell #11 Surface Soil	soil	2004-12-11	11:55	2004-12-14
50520	Remediated OCD Cell #12 Surface Soil	soil	2004-12-11	12:11	2004-12-14
50521	Remediated OCD Cell #13 Surface Soil	soil	2004-12-10	12:35	2004-12-14
50522	Remediated OCD Cell #14 Surface Soil	soil	2004-12-11	12:55	2004-12-14

Sample - Field Code	BTEX				TPH 418.1
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	TRPHC (mg/Kg)
50512 - Remediated OCD Cell #1 Surface Soil	<0.0100	<0.0100	<0.0100	<0.0100	1600
50513 - Remediated OCD Cell #2 Surface Soil	<0.0100	<0.0100	<0.0100	<0.0100	26.3
50514 - Remediated OCD Cell #3 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	78.9
50515 - Remediated OCD Cell #4 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	74.5
50516 - Remediated OCD Cell #8 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	184
50517 - Remediated OCD Cell #9 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	4050
50518 - Remediated OCD Cell #10 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	99.7
50519 - Remediated OCD Cell #11 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	<10.0
50520 - Remediated OCD Cell #12 Surface Soil	<0.0100	<0.0100	<0.0100	<0.0100	27.2
50521 - Remediated OCD Cell #13 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	503
50522 - Remediated OCD Cell #14 Surface Soil	<0.0500	<0.0500	<0.0500	<0.0500	242

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Analytical and Quality Control Report

Larry Gandy
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Report Date: December 20, 2004

Work Order: 4121406

Project Location: Chaves Co., NM, Sec 4,5,8,9, T.11.S T31E

Project Name: Gandy Marley Land Farm

Project Number: Remediated Surface Soil Sampling

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
50512	Remediated OCD Cell #1 Surface Soil	soil	2004-12-10	14:45	2004-12-14
50513	Remediated OCD Cell #2 Surface Soil	soil	2004-12-10	15:10	2004-12-14
50514	Remediated OCD Cell #3 Surface Soil	soil	2004-12-10	15:30	2004-12-14
50515	Remediated OCD Cell #4 Surface Soil	soil	2004-12-10	16:10	2004-12-14
50516	Remediated OCD Cell #8 Surface Soil	soil	2004-12-11	10:50	2004-12-14
50517	Remediated OCD Cell #9 Surface Soil	soil	2004-12-11	11:15	2004-12-14
50518	Remediated OCD Cell #10 Surface Soil	soil	2004-12-11	11:35	2004-12-14
50519	Remediated OCD Cell #11 Surface Soil	soil	2004-12-11	11:55	2004-12-14
50520	Remediated OCD Cell #12 Surface Soil	soil	2004-12-11	12:11	2004-12-14
50521	Remediated OCD Cell #13 Surface Soil	soil	2004-12-10	12:35	2004-12-14
50522	Remediated OCD Cell #14 Surface Soil	soil	2004-12-11	12:55	2004-12-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 50512 - Remediated OCD Cell #1 Surface Soil

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 14737 Date Analyzed: 2004-12-17 Analyzed By: MS
Prep Batch: 13023 Date Prepared: 2004-12-17 Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.765	mg/Kg	10	0.100	76	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.877	mg/Kg	10	0.100	88	63.1 - 105

Sample: 50512 - Remediated OCD Cell #1 Surface Soil

Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 14682 Date Analyzed: 2004-12-16 Analyzed By: DS
Prep Batch: 12974 Date Prepared: 2004-12-16 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		1600	mg/Kg	1	10.0

Sample: 50513 - Remediated OCD Cell #2 Surface Soil

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 14737 Date Analyzed: 2004-12-17 Analyzed By: MS
Prep Batch: 13023 Date Prepared: 2004-12-17 Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.846	mg/Kg	10	0.100	84	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.850	mg/Kg	10	0.100	85	63.1 - 105

Sample: 50513 - Remediated OCD Cell #2 Surface Soil

Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A

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QC Batch: 14682
Prep Batch: 12974

Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		26.3	mg/Kg	1	10.0

Sample: 50514 - Remediated OCD Cell #3 Surface Soil

Analysis: BTEX
QC Batch: 14737
Prep Batch: 13023

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	1	<0.0500	mg/Kg	50	0.00100
Toluene		<0.0500	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	2	0.870	mg/Kg	50	0.100	17	60.1 - 104
4-Bromofluorobenzene (4-BFB)	3	0.884	mg/Kg	50	0.100	18	63.1 - 105

Sample: 50514 - Remediated OCD Cell #3 Surface Soil

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		78.9	mg/Kg	1	10.0

Sample: 50515 - Remediated OCD Cell #4 Surface Soil

Analysis: BTEX
QC Batch: 14737
Prep Batch: 13023

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	4	<0.0500	mg/Kg	50	0.00100
Toluene		<0.0500	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

¹ Sample diluted due to surfactant content.

² Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

³ Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

⁴ Sample diluted due to surfactant content.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	5	0.853	mg/Kg	50	0.100	17	60.1 - 104
4-Bromofluorobenzene (4-BFB)	6	0.855	mg/Kg	50	0.100	17	63.1 - 105

Sample: 50515 - Remediated OCD Cell #4 Surface Soil

Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 14682 Date Analyzed: 2004-12-16 Analyzed By: DS
Prep Batch: 12974 Date Prepared: 2004-12-16 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		74.5	mg/Kg	1	10.0

Sample: 50516 - Remediated OCD Cell #8 Surface Soil

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 14737 Date Analyzed: 2004-12-17 Analyzed By: MS
Prep Batch: 13023 Date Prepared: 2004-12-17 Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	7	<0.0500	mg/Kg	50	0.00100
Toluene		<0.0500	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	8	0.867	mg/Kg	50	0.100	17	60.1 - 104
4-Bromofluorobenzene (4-BFB)	9	0.856	mg/Kg	50	0.100	17	63.1 - 105

Sample: 50516 - Remediated OCD Cell #8 Surface Soil

Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 14682 Date Analyzed: 2004-12-16 Analyzed By: DS
Prep Batch: 12974 Date Prepared: 2004-12-16 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		184	mg/Kg	1	10.0

Sample: 50517 - Remediated OCD Cell #9 Surface Soil

⁵Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

⁶Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

⁷Sample diluted due to surfactant content.

⁸Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

⁹Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

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Analysis: BTEX
QC Batch: 14737
Prep Batch: 13023

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	¹⁰	<0.0500	mg/Kg	50	0.00100
Toluene		<0.0500	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹¹	0.844	mg/Kg	50	0.100	17	60.1 - 104
4-Bromofluorobenzene (4-BFB)	¹²	0.791	mg/Kg	50	0.100	16	63.1 - 105

Sample: 50517 - Remediated OCD Cell #9 Surface Soil

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		4050	mg/Kg	10	10.0

Sample: 50518 - Remediated OCD Cell #10 Surface Soil

Analysis: BTEX
QC Batch: 14737
Prep Batch: 13023

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	¹³	<0.0500	mg/Kg	50	0.00100
Toluene		<0.0500	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹⁴	0.854	mg/Kg	50	0.100	17	60.1 - 104
4-Bromofluorobenzene (4-BFB)	¹⁵	0.859	mg/Kg	50	0.100	17	63.1 - 105

Sample: 50518 - Remediated OCD Cell #10 Surface Soil

¹⁰Sample diluted due to surfactant content.

¹¹Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

¹²Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

¹³Sample diluted due to surfactant content.

¹⁴Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

¹⁵Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

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Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		99.7	mg/Kg	1	10.0

Sample: 50519 - Remediated OCD Cell #11 Surface Soil

Analysis: BTEX
QC Batch: 14739
Prep Batch: 13024

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	¹⁶	<0.0500	mg/Kg	50	0.00100
Toluene		<0.0500	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹⁷	0.835	mg/Kg	50	0.100	17	60.1 - 104
4-Bromofluorobenzene (4-BFB)	¹⁸	0.845	mg/Kg	50	0.100	17	63.1 - 105

Sample: 50519 - Remediated OCD Cell #11 Surface Soil

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50520 - Remediated OCD Cell #12 Surface Soil

Analysis: BTEX
QC Batch: 14739
Prep Batch: 13024

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100

continued...

¹⁶Sample diluted due to surfactant content.

¹⁷Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

¹⁸Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

sample 50520 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.787	mg/Kg	10	0.100	79	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.773	mg/Kg	10	0.100	77	63.1 - 105

Sample: 50520 - Remediated OCD Cell #12 Surface Soil

Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 14682 Date Analyzed: 2004-12-16 Analyzed By: DS
Prep Batch: 12974 Date Prepared: 2004-12-16 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		27.2	mg/Kg	1	10.0

Sample: 50521 - Remediated OCD Cell #13 Surface Soil

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 14739 Date Analyzed: 2004-12-17 Analyzed By: MS
Prep Batch: 13024 Date Prepared: 2004-12-17 Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	¹⁹	<0.0500	mg/Kg	50	0.00100
Toluene		<0.0500	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	²⁰	0.875	mg/Kg	50	0.100	18	60.1 - 104
4-Bromofluorobenzene (4-BFB)	²¹	0.882	mg/Kg	50	0.100	18	63.1 - 105

Sample: 50521 - Remediated OCD Cell #13 Surface Soil

Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 14682 Date Analyzed: 2004-12-16 Analyzed By: DS
Prep Batch: 12974 Date Prepared: 2004-12-16 Prepared By: DS

continued ...

¹⁹Sample diluted due to surfactant content.

²⁰Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

²¹Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

sample 50521 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		503	mg/Kg	1	10.0

Sample: 50522 - Remediated OCD Cell #14 Surface Soil

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 14739 Date Analyzed: 2004-12-17 Analyzed By: MS
Prep Batch: 13024 Date Prepared: 2004-12-17 Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	²²	<0.0500	mg/Kg	50	0.00100
Toluene		<0.0500	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	²³	0.840	mg/Kg	50	0.100	17	60.1 - 104
4-Bromofluorobenzene (4-BFB)	²⁴	0.843	mg/Kg	50	0.100	17	63.1 - 105

Sample: 50522 - Remediated OCD Cell #14 Surface Soil

Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 14682 Date Analyzed: 2004-12-16 Analyzed By: DS
Prep Batch: 12974 Date Prepared: 2004-12-16 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		242	mg/Kg	1	10.0

Method Blank (1) QC Batch: 14682

Parameter	Flag	Result	Units	RL
TRPHC		<10.0	mg/Kg	10

Method Blank (1) QC Batch: 14737

²²Sample diluted due to surfactant content.

²³Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

²⁴Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.940	mg/Kg	10	0.100	94	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.699	mg/Kg	10	0.100	70	36.6 - 112

Method Blank (1) QC Batch: 14739

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.931	mg/Kg	10	0.100	93	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.693	mg/Kg	10	0.100	69	36.6 - 112

Laboratory Control Spike (LCS-1) QC Batch: 14682

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TRPHC	253	255	mg/Kg	1	250	<7.12	101	1	74 - 122	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14737

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.936	0.945	mg/Kg	10	0.100	<0.0333	94	1	79.8 - 114	9.4
Toluene	0.918	0.933	mg/Kg	10	0.100	<0.0353	92	2	79.7 - 115	7.5
Ethylbenzene	0.958	0.975	mg/Kg	10	0.100	<0.0339	96	2	78.7 - 116	8
Xylene	2.70	2.76	mg/Kg	10	0.300	<0.103	90	2	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.987	0.915	mg/Kg	10	0.100	99	92	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.932	0.889	mg/Kg	10	0.100	93	89	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14739

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.990	0.964	mg/Kg	10	0.100	<0.0333	99	3	79.8 - 114	9.4
Toluene	0.967	0.942	mg/Kg	10	0.100	<0.0353	97	3	79.7 - 115	7.5
Ethylbenzene	0.996	0.975	mg/Kg	10	0.100	<0.0339	100	2	78.7 - 116	8
Xylene	2.81	2.74	mg/Kg	10	0.300	<0.103	94	2	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.986	0.948	mg/Kg	10	0.100	99	95	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.961	0.932	mg/Kg	10	0.100	96	93	72.2 - 111

Matrix Spike (MS-1) QC Batch: 14682 Spiked Sample: 50524

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TRPHC	175	176	mg/Kg	1	250	<7.12	70	0	50 - 142	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14739 Spiked Sample: 50511

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	²⁵ 26 0.752	0.744	mg/Kg	10	0.100	0.254	50	1	63.5 - 98.6	12
Toluene	²⁷ 28 0.783	0.763	mg/Kg	10	0.100	0.281	50	2	65.8 - 102	11.4
Ethylbenzene	²⁹ 30 0.854	0.842	mg/Kg	10	0.100	0.368	49	1	66.6 - 106	10.5
Xylene	³¹ 32 2.42	2.39	mg/Kg	10	0.300	1.04	46	1	67.4 - 108	10.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.796	0.784	mg/Kg	10	0.1	80	78	60.1 - 104
4-Bromofluorobenzene (4-BFB)	0.851	0.840	mg/Kg	10	0.1	85	84	63.1 - 105

Standard (ICV-1) QC Batch: 14682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	91.3	91	80 - 120	2004-12-16

Standard (CCV-1) QC Batch: 14682

²⁵Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

²⁶Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

²⁷Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

²⁸Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

²⁹Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

³⁰Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

³¹Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

³²Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	91.5	92	80 - 120	2004-12-16

Standard (CCV-2) QC Batch: 14682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	91.2	91	80 - 120	2004-12-16

Standard (CCV-1) QC Batch: 14737

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0948	95	85 - 115	2004-12-17
Toluene		mg/Kg	0.100	0.0938	94	85 - 115	2004-12-17
Ethylbenzene		mg/Kg	0.100	0.0981	98	85 - 115	2004-12-17
Xylene		mg/Kg	0.300	0.278	93	85 - 115	2004-12-17

Standard (CCV-2) QC Batch: 14737

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0980	98	85 - 115	2004-12-17
Toluene		mg/Kg	0.100	0.0957	96	85 - 115	2004-12-17
Ethylbenzene		mg/Kg	0.100	0.0989	99	85 - 115	2004-12-17
Xylene		mg/Kg	0.300	0.279	93	85 - 115	2004-12-17

Standard (ICV-1) QC Batch: 14739

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0982	98	85 - 115	2004-12-17
Toluene		mg/Kg	0.100	0.0959	96	85 - 115	2004-12-17
Ethylbenzene		mg/Kg	0.100	0.0990	99	85 - 115	2004-12-17
Xylene		mg/Kg	0.300	0.278	93	85 - 115	2004-12-17

Standard (CCV-1) QC Batch: 14739

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0971	97	85 - 115	2004-12-17
Toluene		mg/Kg	0.100	0.0952	95	85 - 115	2004-12-17
Ethylbenzene		mg/Kg	0.100	0.0986	99	85 - 115	2004-12-17
Xylene		mg/Kg	0.300	0.278	93	85 - 115	2004-12-17

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6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296		155 McCutcheon Suite H El Paso, Texas 79932 Tel (915) 585-3443 Fax (915) 585-4944 1 (800) 588-3443		TraceAnalysis, Inc.		Company Name: Gandy Marley Inc. Address: PO Box 1658 Bernal, NM 88002-1658 Contact Person: Mike Marley or Larry Gandy Phone #: 505-347-0434 Fax #: 505-347-0435		Project Name: Gandy Marley Land Farm Project Location: Chaves Co. NM, Sec 4,5,8,9 T.11.S R31E Project #: Remediated Surface Soil Sampling Sampler Signature: [Signature]		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	
LAB Order ID # 4121406		ANALYSIS REQUEST (Circle or Specify Method No.)		LAB USE ONLY		REMARKS: Bill Gandy Marley directly for Analysis Costs. Please send copy of results to CMAA. Please send results to Chaves Co. NM, Sec 4,5,8,9 T.11.S R31E. Check II Special Reporting Limits Are Needed		Carrier # TTX 903-293-0236			
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	VOLUME/AMOUNT	MATRIX	PRESERVATIVE METHOD	SAMPLING DATE	TIME	Turn Around Time if different from standard	Hold		
50512	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1405				
13	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1510				
14	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1530				
15	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1610				
16	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1650				
17	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1115				
18	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1135				
19	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1155				
20	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1211				
21	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1235				
22	Remediated Surface Soil	2	4oz	X	NONE	12/14/04	1455				
Relinquished by: [Signature]		Date: 12/13/04	Time: 10:41	Received by: [Signature]		Date: 12/14/04	Time: 10:18	Relinquished by: [Signature]			
Relinquished by: [Signature]		Date: 12/13/04	Time: 10:41	Received by: [Signature]		Date: 12/14/04	Time: 10:18	Relinquished by: [Signature]			
Relinquished by: [Signature]		Date: 12/13/04	Time: 10:41	Received by: [Signature]		Date: 12/14/04	Time: 10:18	Relinquished by: [Signature]			

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505-399-5721

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 412140

ANALYSIS REQUEST
(Circle or Specify Method No.)

GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard
RCI	TCLP Pesticides	TCLP Semi Volatiles	TCLP Volatiles	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	PAH 8270C
MTBE 8021B/602	BTX 8021B/602	PH 18, 19, 1005			

REMARKS: Bill Candy Marley dinity
For Analysis Costs. Please send
Copy of Results to CMB
P.O. Box 2304 Roswell, NM 86202-2304
oremi1@comcast.net

Check if Special Reporting Limits Are Needed ☐

Carrier # TN WTD 903-293-023-6

Company Name: Candy Marley Inc. **Phone #:** 505-347-0434

Address: PO Box 1658 Roswell, NM 86202-1658 **Fax #:** 505-347-0435

Contact Person: Mike Marley or Larry Candy

Project #: Remediated Surface Soil Sampling **Project Name:** Candy Marley Landforms

Project Location: Chaves Co NM, Sec. 4, 5, 8, 9 T11S R31E. **Sampler Signature:** [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
50512	QCD Cell #1 Remediated Surface Soil	2	4oz	X								X	12/10/04	1445
13	QCD Cell #2 Remediated Surface Soil	2	4oz	X								X	12/10/04	1510
14	QCD Cell #3 Remediated Surface Soil	2	4oz	X								X	12/10/04	1530
15	QCD Cell #4 Remediated Surface Soil	2	4oz	X								X	12/10/04	1610
16	QCD Cell #8 Remediated Surface Soil	2	4oz	X								X	12/10/04	1050
17	QCD Cell #9 Remediated Surface Soil	2	4oz	X								X	12/10/04	1115
18	QCD Cell #10 Remediated Surface Soil	2	4oz	X								X	12/10/04	1135
19	QCD Cell #11 Remediated Surface Soil	2	4oz	X								X	12/10/04	1155
20	QCD Cell #12 Remediated Surface Soil	2	4oz	X								X	12/10/04	1211
21	QCD Cell #13 Remediated Surface Soil	2	4oz	X								X	12/10/04	1235
22	QCD Cell #14 Remediated Surface Soil	2	4oz	X								X	12/10/04	1255

Received by: [Signature] **Date:** 12/13/04 **Time:** 10:44

Relinquished by: [Signature] **Date:** 12/13/04 **Time:** 10:44

Received by: [Signature] **Date:** 12/14/04 **Time:** 10:18

Relinquished by: [Signature] **Date:** 12/14/04 **Time:** 10:18

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

Report Date: December 30, 2004
Annual Sampling (NM-711-1-0020)

Work Order: 4121407
Gandy Marley Land Farm

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Summary Report

Larry Gandy
Gandy Marley Inc.
Box 1658
Roswell, NM 88202

Report Date: December 30, 2004

Work Order: 4121407

Project Location: Sec4,Sec5,Sec8,Sec9 T.11.SR.31E
Project Name: Gandy Marley Land Farm
Project Number: Annual Sampling (NM-711-1-0020)

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
50523	OCD Cell #1	soil	2004-12-10	14:25	2004-12-14
50524	OCD Cell #2	soil	2004-12-10	15:02	2004-12-14
50525	OCD Cell #3	soil	2004-12-10	15:25	2004-12-14
50526	OCD Cell #4	soil	2004-12-10	16:00	2004-12-14
50527	OCD Cell #5	soil	2004-12-11	09:51	2004-12-14
50528	OCD Cell #6	soil	2004-12-11	10:04	2004-12-14
50529	OCD Cell #7	soil	2004-12-11	10:18	2004-12-14
50530	OCD Cell #8	soil	2004-12-11	10:42	2004-12-14
50531	OCD Cell #9	soil	2004-12-11	11:08	2004-12-14
50532	OCD Cell #10	soil	2004-12-11	11:28	2004-12-14
50533	OCD Cell #11	soil	2004-12-11	11:35	2004-12-14
50534	OCD Cell #12	soil	2004-12-11	12:07	2004-12-14
50535	OCD Cell #13	soil	2004-12-11	12:28	2004-12-14
50536	OCD Cell #14	soil	2004-12-11	12:50	2004-12-14
50537	OCD Cell #15	soil	2004-12-11	13:25	2004-12-14

Sample - Field Code	BTEX				TPH 418.1 TRPHC
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	
50523 - OCD Cell #1	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50524 - OCD Cell #2	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50525 - OCD Cell #3	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50526 - OCD Cell #4	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50527 - OCD Cell #5	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50528 - OCD Cell #6	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50529 - OCD Cell #7	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50530 - OCD Cell #8	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50531 - OCD Cell #9	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50532 - OCD Cell #10	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50533 - OCD Cell #11	<0.0100	<0.0100	<0.0100	0.0106	<10.0
50534 - OCD Cell #12	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50535 - OCD Cell #13	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50536 - OCD Cell #14	<0.0100	<0.0100	<0.0100	<0.0100	<10.0
50537 - OCD Cell #15	<0.0100	<0.0100	<0.0100	<0.0100	<10.0

Sample: 50523 - OCD Cell #1

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Gandy Marley Land Farm

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Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		60.0	mg/Kg as CaCo3	4.00
Total Alkalinity		60.0	mg/Kg as CaCo3	4.00
Total Calcium		98200	mg/Kg	50.0
Chloride		33.4	mg/Kg	1.00
Specific Conductance		732	μMHOS/cm	0.00
Total Potassium		2360	mg/Kg	50.0
Total Magnesium		4130	mg/Kg	50.0
Total Sodium		487	mg/Kg	50.0
pH		8.37	s.u.	0.00
Sulfate		217	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.26	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50524 - OCD Cell #2

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		80.0	mg/Kg as CaCo3	4.00
Total Alkalinity		80.0	mg/Kg as CaCo3	4.00
Total Calcium		13500	mg/Kg	50.0
Chloride		28.0	mg/Kg	1.00
Specific Conductance		568	μMHOS/cm	0.00
Total Potassium		2810	mg/Kg	50.0
Total Magnesium		3630	mg/Kg	50.0
Total Sodium		762	mg/Kg	50.0
pH		8.50	s.u.	0.00
Sulfate		85.7	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.18	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50525 - OCD Cell #3

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		46.0	mg/Kg as CaCo3	4.00
Total Alkalinity		46.0	mg/Kg as CaCo3	4.00

continued ...

sample 50525 continued ...

Param	Flag	Result	Units	RL
Total Calcium		6300	mg/Kg	50.0
Chloride		29.0	mg/Kg	1.00
Specific Conductance		898	µMHOS/cm	0.00
Total Potassium		1900	mg/Kg	50.0
Total Magnesium		2830	mg/Kg	50.0
Total Sodium		158	mg/Kg	50.0
pH		8.24	s.u.	0.00
Sulfate		359	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		1.67	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50526 - OCD Cell #4

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		154	mg/Kg as CaCo3	4.00
Total Alkalinity		154	mg/Kg as CaCo3	4.00
Total Calcium		42500	mg/Kg	50.0
Chloride		372	mg/Kg	1.00
Specific Conductance		1920	µMHOS/cm	0.00
Total Potassium		1470	mg/Kg	50.0
Total Magnesium		1840	mg/Kg	50.0
Total Sodium		1370	mg/Kg	50.0
pH		8.74	s.u.	0.00
Sulfate		452	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		1.91	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50527 - OCD Cell #5

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		44.0	mg/Kg as CaCo3	4.00
Total Alkalinity		44.0	mg/Kg as CaCo3	4.00
Total Calcium		221000	mg/Kg	50.0
Chloride		11.6	mg/Kg	1.00

continued ...

Report Date: December 30, 2004
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sample 50527 continued ...

Param	Flag	Result	Units	RL
Specific Conductance		289	μ MHOS/cm	0.00
Total Potassium		1010	mg/Kg	50.0
Total Magnesium		2220	mg/Kg	50.0
Total Sodium		208	mg/Kg	50.0
pH		8.49	s.u.	0.00
Sulfate		73.6	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.51	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50528 - OCD Cell #6

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		56.0	mg/Kg as CaCo3	4.00
Total Alkalinity		56.0	mg/Kg as CaCo3	4.00
Total Calcium		78000	mg/Kg	50.0
Chloride		65.5	mg/Kg	1.00
Specific Conductance		1090	μ MHOS/cm	0.00
Total Potassium		2780	mg/Kg	50.0
Total Magnesium		6610	mg/Kg	50.0
Total Sodium		738	mg/Kg	50.0
pH		8.29	s.u.	0.00
Sulfate		417	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		1.81	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50529 - OCD Cell #7

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		58.0	mg/Kg as CaCo3	4.00
Total Alkalinity		58.0	mg/Kg as CaCo3	4.00
Total Calcium		88500	mg/Kg	50.0
Chloride		10.5	mg/Kg	1.00
Specific Conductance		375	μ MHOS/cm	0.00
Total Potassium		2110	mg/Kg	50.0

continued ...

sample 50529 continued ...

Param	Flag	Result	Units	RL
Total Magnesium		3310	mg/Kg	50.0
Total Sodium		207	mg/Kg	50.0
pH		8.36	s.u.	0.00
Sulfate		94.2	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.51	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50530 - OCD Cell #8

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		50.0	mg/Kg as CaCo3	4.00
Total Alkalinity		50.0	mg/Kg as CaCo3	4.00
Total Calcium		40500	mg/Kg	50.0
Chloride		89.3	mg/Kg	1.00
Specific Conductance		1150	µMHOS/cm	0.00
Total Potassium		2920	mg/Kg	50.0
Total Magnesium		6630	mg/Kg	50.0
Total Sodium		718	mg/Kg	50.0
pH		8.24	s.u.	0.00
Sulfate		446	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		1.90	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50531 - OCD Cell #9

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		53.3	mg/Kg as CaCo3	4.00
Total Alkalinity		53.3	mg/Kg as CaCo3	4.00
Total Calcium		13200	mg/Kg	50.0
Chloride		356	mg/Kg	1.00
Specific Conductance		1140	µMHOS/cm	0.00
Total Potassium		1300	mg/Kg	50.0
Total Magnesium		3080	mg/Kg	50.0
Total Sodium		218	mg/Kg	50.0

continued ...

sample 50531 continued ...

Param	Flag	Result	Units	RL
pH		8.14	s.u.	0.00
Sulfate		46.8	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		3.05	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50532 - OCD Cell #10

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		5.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		90.0	mg/Kg as CaCo3	4.00
Total Alkalinity		95.0	mg/Kg as CaCo3	4.00
Total Calcium		79400	mg/Kg	50.0
Chloride		183	mg/Kg	1.00
Specific Conductance		821	μMHOS/cm	0.00
Total Potassium		2160	mg/Kg	50.0
Total Magnesium		6120	mg/Kg	50.0
Total Sodium		772	mg/Kg	50.0
pH		8.76	s.u.	0.00
Sulfate		44.8	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.77	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50533 - OCD Cell #11

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		48.0	mg/Kg as CaCo3	4.00
Total Alkalinity		48.0	mg/Kg as CaCo3	4.00
Total Calcium		124000	mg/Kg	50.0
Chloride		80.5	mg/Kg	1.00
Specific Conductance		471	μMHOS/cm	0.00
Total Potassium		1620	mg/Kg	50.0
Total Magnesium		4060	mg/Kg	50.0
Total Sodium		663	mg/Kg	50.0
pH		8.42	s.u.	0.00
Sulfate		67.1	mg/Kg	2.00

continued ...

sample 50533 continued ...

Param	Flag	Result	Units	RL
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.29	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50534 - OCD Cell #12

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		55.0	mg/Kg as CaCo3	4.00
Total Alkalinity		55.0	mg/Kg as CaCo3	4.00
Total Calcium		41900	mg/Kg	50.0
Chloride		12.5	mg/Kg	1.00
Specific Conductance		577	μMHOS/cm	0.00
Total Potassium		2050	mg/Kg	50.0
Total Magnesium		3070	mg/Kg	50.0
Total Sodium		167	mg/Kg	50.0
pH		8.27	s.u.	0.00
Sulfate		270	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.17	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50535 - OCD Cell #13

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		50.0	mg/Kg as CaCo3	4.00
Total Alkalinity		50.0	mg/Kg as CaCo3	4.00
Total Calcium		32700	mg/Kg	50.0
Chloride		372	mg/Kg	1.00
Specific Conductance		1330	μMHOS/cm	0.00
Total Potassium		1900	mg/Kg	50.0
Total Magnesium		3200	mg/Kg	50.0
Total Sodium		206	mg/Kg	50.0
pH		8.14	s.u.	0.00
Sulfate		58.0	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100

continued ...

sample 50535 continued ...

Param	Flag	Result	Units	RL
TCLP Barium		2.40	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50536 - OCD Cell #14

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		62.0	mg/Kg as CaCo3	4.00
Total Alkalinity		62.0	mg/Kg as CaCo3	4.00
Total Calcium		86400	mg/Kg	50.0
Chloride		46.1	mg/Kg	1.00
Specific Conductance		323	µMHOS/cm	0.00
Total Potassium		1450	mg/Kg	50.0
Total Magnesium		3380	mg/Kg	50.0
Total Sodium		365	mg/Kg	50.0
pH		8.78	s.u.	0.00
Sulfate		43.6	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.89	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 50537 - OCD Cell #15

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		43.0	mg/Kg as CaCo3	4.00
Total Alkalinity		43.0	mg/Kg as CaCo3	4.00
Total Calcium		8060	mg/Kg	50.0
Chloride		93.7	mg/Kg	1.00
Specific Conductance		489	µMHOS/cm	0.00
Total Potassium		1800	mg/Kg	50.0
Total Magnesium		2040	mg/Kg	50.0
Total Sodium		121	mg/Kg	50.0
pH		8.25	s.u.	0.00
Sulfate		31.5	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.33	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500

continued ...

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sample 50537 continued ...

Param	Flag	Result	Units	RL
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

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Analytical and Quality Control Report

Larry Gandy
Gandy Marley Inc.
Box 1658
Roswell, NM 88202

Report Date: December 30, 2004

Work Order: 4121407

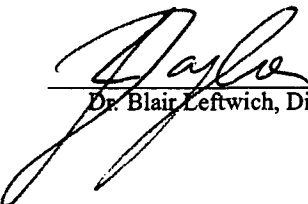
Project Location: Sec4,Sec5,Sec8,Sec9 T.11.SR.31E
Project Name: Gandy Marley Land Farm
Project Number: Annual Sampling (NM-711-1-0020)

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
50523	OCD Cell #1	soil	2004-12-10	14:25	2004-12-14
50524	OCD Cell #2	soil	2004-12-10	15:02	2004-12-14
50525	OCD Cell #3	soil	2004-12-10	15:25	2004-12-14
50526	OCD Cell #4	soil	2004-12-10	16:00	2004-12-14
50527	OCD Cell #5	soil	2004-12-11	09:51	2004-12-14
50528	OCD Cell #6	soil	2004-12-11	10:04	2004-12-14
50529	OCD Cell #7	soil	2004-12-11	10:18	2004-12-14
50530	OCD Cell #8	soil	2004-12-11	10:42	2004-12-14
50531	OCD Cell #9	soil	2004-12-11	11:08	2004-12-14
50532	OCD Cell #10	soil	2004-12-11	11:28	2004-12-14
50533	OCD Cell #11	soil	2004-12-11	11:35	2004-12-14
50534	OCD Cell #12	soil	2004-12-11	12:07	2004-12-14
50535	OCD Cell #13	soil	2004-12-11	12:28	2004-12-14
50536	OCD Cell #14	soil	2004-12-11	12:50	2004-12-14
50537	OCD Cell #15	soil	2004-12-11	13:25	2004-12-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 75 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 50523 - OCD Cell #1

Analysis: Alkalinity
QC Batch: 14967
Prep Batch: 13172

Analytical Method: SM 2320B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-27

Prep Method: N/A
Analyzed By: RS
Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		60.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		60.0	mg/Kg as CaCo3	1	4.00

Sample: 50523 - OCD Cell #1

Analysis: BTEX
QC Batch: 14739
Prep Batch: 13024

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.834	mg/Kg	10	0.100	83	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.842	mg/Kg	10	0.100	84	63.1 - 105

Sample: 50523 - OCD Cell #1

Analysis: Ca, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		98200	mg/Kg	100	50.0

Sample: 50523 - OCD Cell #1

Analysis: Chloride (IC)
QC Batch: 14893
Prep Batch: 13146

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

continued...

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sample 50523 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		33.4	mg/Kg	5	1.00

Sample: 50523 - OCD Cell #1

Analysis:	Conductivity	Analytical Method:	SM 2510B	Prep Method:	N/A
QC Batch:	14901	Date Analyzed:	2004-12-22	Analyzed By:	RS
Prep Batch:	13154	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		732	µMHOS/cm	1	0.00

Sample: 50523 - OCD Cell #1

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		2360	mg/Kg	1	50.0

Sample: 50523 - OCD Cell #1

Analysis:	Mg, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		4130	mg/Kg	1	50.0

Sample: 50523 - OCD Cell #1

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		487	mg/Kg	1	50.0

Sample: 50523 - OCD Cell #1

Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	14904	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13151	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.37	s.u.	1	0.00

Sample: 50523 - OCD Cell #1

Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14893	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13146	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		217	mg/Kg	5	2.00

Sample: 50523 - OCD Cell #1

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	14998	Date Analyzed:	2004-12-29	Analyzed By:	RR
Prep Batch:	13232	Date Prepared:	2004-12-29	Prepared By:	DS
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	15030	Date Analyzed:	2004-12-30	Analyzed By:	TP
Prep Batch:	13260	Date Prepared:	2004-12-29	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.26	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50523 - OCD Cell #1

Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	14682	Date Analyzed:	2004-12-16	Analyzed By:	DS
Prep Batch:	12974	Date Prepared:	2004-12-16	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

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Sample: 50524 - OCD Cell #2

Analysis: Alkalinity Analytical Method: SM 2320B Prep Method: N/A
QC Batch: 14967 Date Analyzed: 2004-12-27 Analyzed By: RS
Prep Batch: 13172 Date Prepared: 2004-12-27 Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		80.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		80.0	mg/Kg as CaCo3	1	4.00

Sample: 50524 - OCD Cell #2

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 14739 Date Analyzed: 2004-12-17 Analyzed By: MS
Prep Batch: 13024 Date Prepared: 2004-12-17 Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.799	mg/Kg	10	0.100	80	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.820	mg/Kg	10	0.100	82	63.1 - 105

Sample: 50524 - OCD Cell #2

Analysis: Ca, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14950 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		13500	mg/Kg	10	50.0

Sample: 50524 - OCD Cell #2

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 14893 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13146 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		28.0	mg/Kg	5	1.00

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Sample: 50524 - OCD Cell #2

Analysis: Conductivity
QC Batch: 14901
Prep Batch: 13154

Analytical Method: SM 2510B
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: RS
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		568	µMHOS/cm	1	0.00

Sample: 50524 - OCD Cell #2

Analysis: K, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		2810	mg/Kg	10	50.0

Sample: 50524 - OCD Cell #2

Analysis: Mg, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		3630	mg/Kg	10	50.0

Sample: 50524 - OCD Cell #2

Analysis: Na, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		762	mg/Kg	10	50.0

Sample: 50524 - OCD Cell #2

Analysis: pH
QC Batch: 14904
Prep Batch: 13151

Analytical Method: SM 4500-H+
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.50	s.u.	1	0.00

Sample: 50524 - OCD Cell #2

Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14893	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13146	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		85.7	mg/Kg	5	2.00

Sample: 50524 - OCD Cell #2

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	14998	Date Analyzed:	2004-12-29	Analyzed By:	RR
Prep Batch:	13232	Date Prepared:	2004-12-29	Prepared By:	DS
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	15030	Date Analyzed:	2004-12-30	Analyzed By:	TP
Prep Batch:	13260	Date Prepared:	2004-12-29	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.18	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50524 - OCD Cell #2

Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	14682	Date Analyzed:	2004-12-16	Analyzed By:	DS
Prep Batch:	12974	Date Prepared:	2004-12-16	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50525 - OCD Cell #3

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	14967	Date Analyzed:	2004-12-27	Analyzed By:	RS
Prep Batch:	13172	Date Prepared:	2004-12-27	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		46.0	mg/Kg as CaCo3	1	4.00

continued ...

sample 50525 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Total Alkalinity		46.0	mg/Kg as CaCo3	1	4.00

Sample: 50525 - OCD Cell #3

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 14739	Date Analyzed: 2004-12-17	Analyzed By: MS
Prep Batch: 13024	Date Prepared: 2004-12-17	Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.799	mg/Kg	10	0.100	80	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.802	mg/Kg	10	0.100	80	63.1 - 105

Sample: 50525 - OCD Cell #3

Analysis: Ca, Total	Analytical Method: S 6010B	Prep Method: S 3050B
QC Batch: 14950	Date Analyzed: 2004-12-27	Analyzed By: TP
Prep Batch: 13003	Date Prepared: 2004-12-17	Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		6300	mg/Kg	10	50.0

Sample: 50525 - OCD Cell #3

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 14893	Date Analyzed: 2004-12-22	Analyzed By: WB
Prep Batch: 13146	Date Prepared: 2004-12-22	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		29.0	mg/Kg	5	1.00

Sample: 50525 - OCD Cell #3

Analysis: Conductivity	Analytical Method: SM 2510B	Prep Method: N/A
QC Batch: 14901	Date Analyzed: 2004-12-22	Analyzed By: RS
Prep Batch: 13154	Date Prepared: 2004-12-22	Prepared By: WB

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Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		898	μ MHOS/cm	1	0.00

Sample: 50525 - OCD Cell #3

Analysis: K, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14950 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		1900	mg/Kg	1	50.0

Sample: 50525 - OCD Cell #3

Analysis: Mg, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14950 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		2830	mg/Kg	1	50.0

Sample: 50525 - OCD Cell #3

Analysis: Na, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14950 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		158	mg/Kg	1	50.0

Sample: 50525 - OCD Cell #3

Analysis: pH Analytical Method: SM 4500-H+ Prep Method: N/A
QC Batch: 14904 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13151 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.24	s.u.	1	0.00

Sample: 50525 - OCD Cell #3

Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 14893 Date Analyzed: 2004-12-22 Analyzed By: WB

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Prep Batch: 13146

Date Prepared: 2004-12-22

Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		359	mg/Kg	5	2.00

Sample: 50525 - OCD Cell #3

Analysis: TCLP Total 8 Metals
QC Batch: 14998
Prep Batch: 13232
Analysis: TCLP Total 8 Metals
QC Batch: 15030
Prep Batch: 13260

Analytical Method: S 6010B
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29
Analytical Method: S 7470A
Date Analyzed: 2004-12-30
Date Prepared: 2004-12-29

Prep Method: TCLP 1311
Analyzed By: RR
Prepared By: DS
Prep Method: TCLP 1311
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		1.67	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50525 - OCD Cell #3

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50526 - OCD Cell #4

Analysis: Alkalinity
QC Batch: 14967
Prep Batch: 13172

Analytical Method: SM 2320B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-27

Prep Method: N/A
Analyzed By: RS
Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		154	mg/Kg as CaCo3	1	4.00
Total Alkalinity		154	mg/Kg as CaCo3	1	4.00

Sample: 50526 - OCD Cell #4

Analysis: BTEX
QC Batch: 14801
Prep Batch: 13072

Analytical Method: S 8021B
Date Analyzed: 2004-12-20
Date Prepared: 2004-12-20

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.770	mg/Kg	10	0.100	77	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.759	mg/Kg	10	0.100	76	63.1 - 105

Sample: 50526 - OCD Cell #4

Analysis: Ca, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		42500	mg/Kg	10	50.0

Sample: 50526 - OCD Cell #4

Analysis: Chloride (IC)
QC Batch: 14893
Prep Batch: 13146

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		372	mg/Kg	50	1.00

Sample: 50526 - OCD Cell #4

Analysis: Conductivity
QC Batch: 14901
Prep Batch: 13154

Analytical Method: SM 2510B
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: RS
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		1920	μMHOS/cm	1	0.00

Sample: 50526 - OCD Cell #4

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Analysis: K, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		1470	mg/Kg	1	50.0

Sample: 50526 - OCD Cell #4

Analysis: Mg, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		1840	mg/Kg	1	50.0

Sample: 50526 - OCD Cell #4

Analysis: Na, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		1370	mg/Kg	1	50.0

Sample: 50526 - OCD Cell #4

Analysis: pH
QC Batch: 14904
Prep Batch: 13151

Analytical Method: SM 4500-H+
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.74	s.u.	1	0.00

Sample: 50526 - OCD Cell #4

Analysis: SO4 (IC)
QC Batch: 14893
Prep Batch: 13146

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		452	mg/Kg	50	2.00

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Sample: 50526 - OCD Cell #4

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	14998	Date Analyzed:	2004-12-29	Analyzed By:	RR
Prep Batch:	13232	Date Prepared:	2004-12-29	Prepared By:	DS
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	15030	Date Analyzed:	2004-12-30	Analyzed By:	TP
Prep Batch:	13260	Date Prepared:	2004-12-29	Prepared By:	TP

Parameter	Flag	RL	Units	Dilution	RL
		Result			
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		1.91	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50526 - OCD Cell #4

Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	14682	Date Analyzed:	2004-12-16	Analyzed By:	DS
Prep Batch:	12974	Date Prepared:	2004-12-16	Prepared By:	DS

Parameter	Flag	RL	Units	Dilution	RL
		Result			
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50527 - OCD Cell #5

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	14967	Date Analyzed:	2004-12-27	Analyzed By:	RS
Prep Batch:	13172	Date Prepared:	2004-12-27	Prepared By:	RS

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		44.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		44.0	mg/Kg as CaCo3	1	4.00

Sample: 50527 - OCD Cell #5

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14739	Date Analyzed:	2004-12-17	Analyzed By:	MS
Prep Batch:	13024	Date Prepared:	2004-12-17	Prepared By:	MS

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sample 50527 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.757	mg/Kg	10	0.100	76	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.765	mg/Kg	10	0.100	76	63.1 - 105

Sample: 50527 - OCD Cell #5

Analysis:	Ca, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		221000	mg/Kg	100	50.0

Sample: 50527 - OCD Cell #5

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14894	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13147	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		11.6	mg/Kg	5	1.00

Sample: 50527 - OCD Cell #5

Analysis:	Conductivity	Analytical Method:	SM 2510B	Prep Method:	N/A
QC Batch:	14900	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13155	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		289	µMHOS/cm	1	0.00

Sample: 50527 - OCD Cell #5

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
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QC Batch: 14950
Prep Batch: 13003

Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		1010	mg/Kg	1	50.0

Sample: 50527 - OCD Cell #5

Analysis: Mg, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		2220	mg/Kg	1	50.0

Sample: 50527 - OCD Cell #5

Analysis: Na, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		208	mg/Kg	1	50.0

Sample: 50527 - OCD Cell #5

Analysis: pH
QC Batch: 14903
Prep Batch: 13152

Analytical Method: SM 4500-H+
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.49	s.u.	1	0.00

Sample: 50527 - OCD Cell #5

Analysis: SO4 (IC)
QC Batch: 14894
Prep Batch: 13147

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		73.6	mg/Kg	5	2.00

Sample: 50527 - OCD Cell #5

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	14998	Date Analyzed:	2004-12-29	Analyzed By:	RR
Prep Batch:	13232	Date Prepared:	2004-12-29	Prepared By:	DS
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	15030	Date Analyzed:	2004-12-30	Analyzed By:	TP
Prep Batch:	13260	Date Prepared:	2004-12-29	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.51	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50527 - OCD Cell #5

Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	14682	Date Analyzed:	2004-12-16	Analyzed By:	DS
Prep Batch:	12974	Date Prepared:	2004-12-16	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50528 - OCD Cell #6

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	14967	Date Analyzed:	2004-12-27	Analyzed By:	RS
Prep Batch:	13172	Date Prepared:	2004-12-27	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		56.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		56.0	mg/Kg as CaCo3	1	4.00

Sample: 50528 - OCD Cell #6

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14739	Date Analyzed:	2004-12-17	Analyzed By:	MS
Prep Batch:	13024	Date Prepared:	2004-12-17	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100

continued ...

sample 50528 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.822	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.864	mg/Kg	10	0.100	86	63.1 - 105

Sample: 50528 - OCD Cell #6

Analysis: Ca, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		78000	mg/Kg	100	50.0

Sample: 50528 - OCD Cell #6

Analysis: Chloride (IC)
QC Batch: 14894
Prep Batch: 13147

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		65.5	mg/Kg	10	1.00

Sample: 50528 - OCD Cell #6

Analysis: Conductivity
QC Batch: 14900
Prep Batch: 13155

Analytical Method: SM 2510B
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		1090	μ MHOS/cm	1	0.00

Sample: 50528 - OCD Cell #6

Analysis: K, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

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Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		2780	mg/Kg	1	50.0

Sample: 50528 - OCD Cell #6

Analysis:	Mg, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		6610	mg/Kg	10	50.0

Sample: 50528 - OCD Cell #6

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		738	mg/Kg	1	50.0

Sample: 50528 - OCD Cell #6

Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	14903	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13152	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.29	s.u.	1	0.00

Sample: 50528 - OCD Cell #6

Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14894	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13147	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		417	mg/Kg	10	2.00

Sample: 50528 - OCD Cell #6

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	14998	Date Analyzed:	2004-12-29	Analyzed By:	RR

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Prep Batch: 13232
Analysis: TCLP Total 8 Metals
QC Batch: 15031
Prep Batch: 13260

Date Prepared: 2004-12-29
Analytical Method: S 7470A
Date Analyzed: 2004-12-30
Date Prepared: 2004-12-29

Prepared By: DS
Prep Method: TCLP 1311
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		1.81	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50528 - OCD Cell #6

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50529 - OCD Cell #7

Analysis: Alkalinity
QC Batch: 14967
Prep Batch: 13172

Analytical Method: SM 2320B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-27

Prep Method: N/A
Analyzed By: RS
Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		58.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		58.0	mg/Kg as CaCo3	1	4.00

Sample: 50529 - OCD Cell #7

Analysis: BTEX
QC Batch: 14739
Prep Batch: 13024

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100

continued...

sample 50529 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.742	mg/Kg	10	0.100	74	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.753	mg/Kg	10	0.100	75	63.1 - 105

Sample: 50529 - OCD Cell #7

Analysis:	Ca, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		88500	mg/Kg	100	50.0

Sample: 50529 - OCD Cell #7

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14894	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13147	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10.5	mg/Kg	5	1.00

Sample: 50529 - OCD Cell #7

Analysis:	Conductivity	Analytical Method:	SM 2510B	Prep Method:	N/A
QC Batch:	14900	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13155	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		375	μ MHOS/cm	1	0.00

Sample: 50529 - OCD Cell #7

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

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sample 50529 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		2110	mg/Kg	1	50.0

Sample: 50529 - OCD Cell #7

Analysis:	Mg, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		3310	mg/Kg	1	50.0

Sample: 50529 - OCD Cell #7

Analysis:	Na, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14950	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		207	mg/Kg	1	50.0

Sample: 50529 - OCD Cell #7

Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	14903	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13152	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.36	s.u.	1	0.00

Sample: 50529 - OCD Cell #7

Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14894	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13147	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		94.2	mg/Kg	5	2.00

Sample: 50529 - OCD Cell #7

Analysis: TCLP Total 8 Metals
QC Batch: 14998
Prep Batch: 13232
Analysis: TCLP Total 8 Metals
QC Batch: 15031
Prep Batch: 13260

Analytical Method: S 6010B
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29
Analytical Method: S 7470A
Date Analyzed: 2004-12-30
Date Prepared: 2004-12-29

Prep Method: TCLP 1311
Analyzed By: RR
Prepared By: DS
Prep Method: TCLP 1311
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.51	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50529 - OCD Cell #7

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50530 - OCD Cell #8

Analysis: Alkalinity
QC Batch: 14967
Prep Batch: 13172

Analytical Method: SM 2320B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-27

Prep Method: N/A
Analyzed By: RS
Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		50.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		50.0	mg/Kg as CaCo3	1	4.00

Sample: 50530 - OCD Cell #8

Analysis: BTEX
QC Batch: 14739
Prep Batch: 13024

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

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Parameter	Flag	RL Result	Units	Dilution	RL
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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.844	mg/Kg	10	0.100	84	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.860	mg/Kg	10	0.100	86	63.1 - 105

Sample: 50530 - OCD Cell #8

Analysis: Ca, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		40500	mg/Kg	10	50.0

Sample: 50530 - OCD Cell #8

Analysis: Chloride (IC)
QC Batch: 14894
Prep Batch: 13147

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		89.3	mg/Kg	10	1.00

Sample: 50530 - OCD Cell #8

Analysis: Conductivity
QC Batch: 14900
Prep Batch: 13155

Analytical Method: SM 2510B
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		1150	µMHOS/cm	1	0.00

Sample: 50530 - OCD Cell #8

Analysis: K, Total

Analytical Method: S 6010B

Prep Method: S 3050B

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QC Batch: 14950
Prep Batch: 13003

Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		2920	mg/Kg	1	50.0

Sample: 50530 - OCD Cell #8

Analysis: Mg, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		6630	mg/Kg	10	50.0

Sample: 50530 - OCD Cell #8

Analysis: Na, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		718	mg/Kg	1	50.0

Sample: 50530 - OCD Cell #8

Analysis: pH
QC Batch: 14903
Prep Batch: 13152

Analytical Method: SM 4500-H+
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.24	s.u.	1	0.00

Sample: 50530 - OCD Cell #8

Analysis: SO4 (IC)
QC Batch: 14894
Prep Batch: 13147

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		446	mg/Kg	10	2.00

Sample: 50530 - OCD Cell #8

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Analysis: TCLP Ag
QC Batch: 14998
Prep Batch: 13232

Analytical Method: S 6010B
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: TCLP 1311
Analyzed By: RR
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125

Sample: 50530 - OCD Cell #8

Analysis: TCLP Total 8 Metals
QC Batch: 14998
Prep Batch: 13232
Analysis: TCLP Total 8 Metals
QC Batch: 15031
Prep Batch: 13260

Analytical Method: S 6010B
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29
Analytical Method: S 7470A
Date Analyzed: 2004-12-30
Date Prepared: 2004-12-29

Prep Method: TCLP 1311
Analyzed By: RR
Prepared By: DS
Prep Method: TCLP 1311
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		1.90	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50530 - OCD Cell #8

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50531 - OCD Cell #9

Analysis: Alkalinity
QC Batch: 14967
Prep Batch: 13172

Analytical Method: SM 2320B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-27

Prep Method: N/A
Analyzed By: RS
Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		53.3	mg/Kg as CaCo3	1	4.00
Total Alkalinity		53.3	mg/Kg as CaCo3	1	4.00

Sample: 50531 - OCD Cell #9

Analysis: BTEX
QC Batch: 14739
Prep Batch: 13024

Analytical Method: S 8021B
Date Analyzed: 2004-12-17
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.800	mg/Kg	10	0.100	80	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.819	mg/Kg	10	0.100	82	63.1 - 105

Sample: 50531 - OCD Cell #9

Analysis: Ca, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		13200	mg/Kg	100	50.0

Sample: 50531 - OCD Cell #9

Analysis: Chloride (IC)
QC Batch: 14894
Prep Batch: 13147

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		356	mg/Kg	10	1.00

Sample: 50531 - OCD Cell #9

Analysis: Conductivity
QC Batch: 14900
Prep Batch: 13155

Analytical Method: SM 2510B
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		1140	μ MHOS/cm	1	0.00

Sample: 50531 - OCD Cell #9

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Analysis: K, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		1300	mg/Kg	1	50.0

Sample: 50531 - OCD Cell #9

Analysis: Mg, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		3080	mg/Kg	1	50.0

Sample: 50531 - OCD Cell #9

Analysis: Na, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		218	mg/Kg	1	50.0

Sample: 50531 - OCD Cell #9

Analysis: pH
QC Batch: 14903
Prep Batch: 13152

Analytical Method: SM 4500-H+
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.14	s.u.	1	0.00

Sample: 50531 - OCD Cell #9

Analysis: SO4 (IC)
QC Batch: 14894
Prep Batch: 13147

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		46.8	mg/Kg	10	2.00

Sample: 50531 - OCD Cell #9

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	14998	Date Analyzed:	2004-12-29	Analyzed By:	RR
Prep Batch:	13232	Date Prepared:	2004-12-29	Prepared By:	DS
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	15031	Date Analyzed:	2004-12-30	Analyzed By:	TP
Prep Batch:	13260	Date Prepared:	2004-12-29	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		3.05	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50531 - OCD Cell #9

Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	14682	Date Analyzed:	2004-12-16	Analyzed By:	DS
Prep Batch:	12974	Date Prepared:	2004-12-16	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50532 - OCD Cell #10

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	14967	Date Analyzed:	2004-12-27	Analyzed By:	RS
Prep Batch:	13172	Date Prepared:	2004-12-27	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		5.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		90.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		95.0	mg/Kg as CaCo3	1	4.00

Sample: 50532 - OCD Cell #10

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14739	Date Analyzed:	2004-12-17	Analyzed By:	MS
Prep Batch:	13024	Date Prepared:	2004-12-17	Prepared By:	MS

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Parameter	Flag	RL Result	Units	Dilution	RL
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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.802	mg/Kg	10	0.100	80	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.838	mg/Kg	10	0.100	84	63.1 - 105

Sample: 50532 - OCD Cell #10

Analysis: Ca, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		79400	mg/Kg	100	50.0

Sample: 50532 - OCD Cell #10

Analysis: Chloride (IC)
QC Batch: 14894
Prep Batch: 13147

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		183	mg/Kg	5	1.00

Sample: 50532 - OCD Cell #10

Analysis: Conductivity
QC Batch: 14900
Prep Batch: 13155

Analytical Method: SM 2510B
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		821	µMHOS/cm	1	0.00

Sample: 50532 - OCD Cell #10

Analysis: K, Total

Analytical Method: S 6010B

Prep Method: S 3050B

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QC Batch: 14950
Prep Batch: 13003

Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		2160	mg/Kg	1	50.0

Sample: 50532 - OCD Cell #10

Analysis: Mg, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		6120	mg/Kg	10	50.0

Sample: 50532 - OCD Cell #10

Analysis: Na, Total
QC Batch: 14950
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		772	mg/Kg	1	50.0

Sample: 50532 - OCD Cell #10

Analysis: pH
QC Batch: 14903
Prep Batch: 13152

Analytical Method: SM 4500-H+
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.76	s.u.	1	0.00

Sample: 50532 - OCD Cell #10

Analysis: SO4 (IC)
QC Batch: 14894
Prep Batch: 13147

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		44.8	mg/Kg	5	2.00

Sample: 50532 - OCD Cell #10

Analysis: TCLP Total 8 Metals
QC Batch: 15001
Prep Batch: 13232
Analysis: TCLP Total 8 Metals
QC Batch: 15031
Prep Batch: 13260

Analytical Method: S 6010B
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29
Analytical Method: S 7470A
Date Analyzed: 2004-12-30
Date Prepared: 2004-12-29

Prep Method: TCLP 1311
Analyzed By: RR
Prepared By: DS
Prep Method: TCLP 1311
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.77	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50532 - OCD Cell #10

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50533 - OCD Cell #11

Analysis: Alkalinity
QC Batch: 14968
Prep Batch: 13173

Analytical Method: SM 2320B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-27

Prep Method: N/A
Analyzed By: RS
Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		48.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		48.0	mg/Kg as CaCo3	1	4.00

Sample: 50533 - OCD Cell #11

Analysis: BTEX
QC Batch: 14742
Prep Batch: 13027

Analytical Method: S 8021B
Date Analyzed: 2004-12-18
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100

continued...

sample 50533 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0106	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.20	mg/Kg	10	0.100	120	47.1 - 124
4-Bromofluorobenzene (4-BFB)		1.08	mg/Kg	10	0.100	108	51.7 - 123

Sample: 50533 - OCD Cell #11

Analysis: Ca, Total	Analytical Method: S 6010B	Prep Method: S 3050B
QC Batch: 14951	Date Analyzed: 2004-12-27	Analyzed By: TP
Prep Batch: 13003	Date Prepared: 2004-12-17	Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		124000	mg/Kg	100	50.0

Sample: 50533 - OCD Cell #11

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 14894	Date Analyzed: 2004-12-22	Analyzed By: WB
Prep Batch: 13147	Date Prepared: 2004-12-22	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		80.5	mg/Kg	5	1.00

Sample: 50533 - OCD Cell #11

Analysis: Conductivity	Analytical Method: SM 2510B	Prep Method: N/A
QC Batch: 14900	Date Analyzed: 2004-12-22	Analyzed By: WB
Prep Batch: 13155	Date Prepared: 2004-12-22	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		471	μ MHOS/cm	1	0.00

Sample: 50533 - OCD Cell #11

Analysis: K, Total	Analytical Method: S 6010B	Prep Method: S 3050B
QC Batch: 14951	Date Analyzed: 2004-12-27	Analyzed By: TP
Prep Batch: 13003	Date Prepared: 2004-12-17	Prepared By: DS

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Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		1620	mg/Kg	10	50.0

Sample: 50533 - OCD Cell #11

Analysis: Mg, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14951 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		4060	mg/Kg	10	50.0

Sample: 50533 - OCD Cell #11

Analysis: Na, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14951 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		663	mg/Kg	10	50.0

Sample: 50533 - OCD Cell #11

Analysis: pH Analytical Method: SM 4500-H+ Prep Method: N/A
QC Batch: 14903 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13152 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.42	s.u.	1	0.00

Sample: 50533 - OCD Cell #11

Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 14894 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13147 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		67.1	mg/Kg	5	2.00

Sample: 50533 - OCD Cell #11

Analysis: TCLP Total 8 Metals Analytical Method: S 6010B Prep Method: TCLP 1311
QC Batch: 15001 Date Analyzed: 2004-12-29 Analyzed By: RR

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Prep Batch: 13232
Analysis: TCLP Total 8 Metals
QC Batch: 15031
Prep Batch: 13260

Date Prepared: 2004-12-29
Analytical Method: S 7470A
Date Analyzed: 2004-12-30
Date Prepared: 2004-12-29

Prepared By: DS
Prep Method: TCLP 1311
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.29	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50533 - OCD Cell #11

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50534 - OCD Cell #12

Analysis: Alkalinity
QC Batch: 14968
Prep Batch: 13173

Analytical Method: SM 2320B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-27

Prep Method: N/A
Analyzed By: RS
Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		55.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		55.0	mg/Kg as CaCo3	1	4.00

Sample: 50534 - OCD Cell #12

Analysis: BTEX
QC Batch: 14742
Prep Batch: 13027

Analytical Method: S 8021B
Date Analyzed: 2004-12-18
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100

continued...

sample 50534 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	1	2.50	mg/Kg	10	0.200	125	47.1 - 124
4-Bromofluorobenzene (4-BFB)		2.36	mg/Kg	10	0.200	118	51.7 - 123

Sample: 50534 - OCD Cell #12

Analysis:	Ca, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14951	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		41900	mg/Kg	10	50.0

Sample: 50534 - OCD Cell #12

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14894	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13147	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		12.5	mg/Kg	5	1.00

Sample: 50534 - OCD Cell #12

Analysis:	Conductivity	Analytical Method:	SM 2510B	Prep Method:	N/A
QC Batch:	14900	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13155	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		577	µMHOS/cm	1	0.00

Sample: 50534 - OCD Cell #12

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14951	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

¹TFT surrogate recovery is high due to peak interference. BFB surrogate recovery shows the method to be in control.

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Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		2050	mg/Kg	1	50.0

Sample: 50534 - OCD Cell #12

Analysis: Mg, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14951 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		3070	mg/Kg	1	50.0

Sample: 50534 - OCD Cell #12

Analysis: Na, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14951 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		167	mg/Kg	1	50.0

Sample: 50534 - OCD Cell #12

Analysis: pH Analytical Method: SM 4500-H+ Prep Method: N/A
QC Batch: 14903 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13152 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.27	s.u.	1	0.00

Sample: 50534 - OCD Cell #12

Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 14894 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13147 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		270	mg/Kg	5	2.00

Sample: 50534 - OCD Cell #12

Analysis: TCLP Total 8 Metals Analytical Method: S 6010B Prep Method: TCLP 1311
QC Batch: 15001 Date Analyzed: 2004-12-29 Analyzed By: RR

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Prep Batch: 13232
Analysis: TCLP Total 8 Metals
QC Batch: 15031
Prep Batch: 13260

Date Prepared: 2004-12-29
Analytical Method: S 7470A
Date Analyzed: 2004-12-30
Date Prepared: 2004-12-29

Prepared By: DS
Prep Method: TCLP 1311
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.17	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50534 - OCD Cell #12

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50535 - OCD Cell #13

Analysis: Alkalinity
QC Batch: 14968
Prep Batch: 13173

Analytical Method: SM 2320B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-27

Prep Method: N/A
Analyzed By: RS
Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		50.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		50.0	mg/Kg as CaCo3	1	4.00

Sample: 50535 - OCD Cell #13

Analysis: BTEX
QC Batch: 14742
Prep Batch: 13027

Analytical Method: S 8021B
Date Analyzed: 2004-12-18
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100

continued ...

sample 50535 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	2	2.60	mg/Kg	10	0.200	130	47.1 - 124
4-Bromofluorobenzene (4-BFB)		2.46	mg/Kg	10	0.200	123	51.7 - 123

Sample: 50535 - OCD Cell #13

Analysis:	Ca, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14951	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		32700	mg/Kg	10	50.0

Sample: 50535 - OCD Cell #13

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14894	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13147	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		372	mg/Kg	10	1.00

Sample: 50535 - OCD Cell #13

Analysis:	Conductivity	Analytical Method:	SM 2510B	Prep Method:	N/A
QC Batch:	14900	Date Analyzed:	2004-12-22	Analyzed By:	WB
Prep Batch:	13155	Date Prepared:	2004-12-22	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		1330	μ MHOS/cm	1	0.00

Sample: 50535 - OCD Cell #13

Analysis:	K, Total	Analytical Method:	S 6010B	Prep Method:	S 3050B
QC Batch:	14951	Date Analyzed:	2004-12-27	Analyzed By:	TP
Prep Batch:	13003	Date Prepared:	2004-12-17	Prepared By:	DS

²TFT surrogate recovery is high due to peak interference. BFB surrogate recovery shows the method to be in control.

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Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		1900	mg/Kg	1	50.0

Sample: 50535 - OCD Cell #13

Analysis: Mg, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14951 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		3200	mg/Kg	1	50.0

Sample: 50535 - OCD Cell #13

Analysis: Na, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14951 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		206	mg/Kg	1	50.0

Sample: 50535 - OCD Cell #13

Analysis: pH Analytical Method: SM 4500-H+ Prep Method: N/A
QC Batch: 14903 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13152 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.14	s.u.	1	0.00

Sample: 50535 - OCD Cell #13

Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 14894 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13147 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		58.0	mg/Kg	10	2.00

Sample: 50535 - OCD Cell #13

Analysis: TCLP Total 8 Metals Analytical Method: S 6010B Prep Method: TCLP 1311
QC Batch: 15001 Date Analyzed: 2004-12-29 Analyzed By: RR

Prep Batch: 13232
Analysis: TCLP Total 8 Metals
QC Batch: 15031
Prep Batch: 13260

Date Prepared: 2004-12-29
Analytical Method: S 7470A
Date Analyzed: 2004-12-30
Date Prepared: 2004-12-29

Prepared By: DS
Prep Method: TCLP 1311
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.40	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50535 - OCD Cell #13

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50536 - OCD Cell #14

Analysis: Alkalinity
QC Batch: 14968
Prep Batch: 13173

Analytical Method: SM 2320B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-27

Prep Method: N/A
Analyzed By: RS
Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		62.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		62.0	mg/Kg as CaCo3	1	4.00

Sample: 50536 - OCD Cell #14

Analysis: BTEX
QC Batch: 14743
Prep Batch: 13028

Analytical Method: S 8021B
Date Analyzed: 2004-12-18
Date Prepared: 2004-12-17

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100

continued...

sample 50536 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.986	mg/Kg	10	0.100	99	47.1 - 124
4-Bromofluorobenzene (4-BFB)		0.991	mg/Kg	10	0.100	99	51.7 - 123

Sample: 50536 - OCD Cell #14

Analysis: Ca, Total
QC Batch: 14951
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		86400	mg/Kg	100	50.0

Sample: 50536 - OCD Cell #14

Analysis: Chloride (IC)
QC Batch: 14894
Prep Batch: 13147

Analytical Method: E 300.0
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		46.1	mg/Kg	5	1.00

Sample: 50536 - OCD Cell #14

Analysis: Conductivity
QC Batch: 14900
Prep Batch: 13155

Analytical Method: SM 2510B
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		323	μ MHOS/cm	1	0.00

Sample: 50536 - OCD Cell #14

Analysis: K, Total
QC Batch: 14951
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

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sample 50536 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		1450	mg/Kg	1	50.0

Sample: 50536 - OCD Cell #14

Analysis: Mg, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14951 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		3380	mg/Kg	1	50.0

Sample: 50536 - OCD Cell #14

Analysis: Na, Total Analytical Method: S 6010B Prep Method: S 3050B
QC Batch: 14951 Date Analyzed: 2004-12-27 Analyzed By: TP
Prep Batch: 13003 Date Prepared: 2004-12-17 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		365	mg/Kg	1	50.0

Sample: 50536 - OCD Cell #14

Analysis: pH Analytical Method: SM 4500-H+ Prep Method: N/A
QC Batch: 14903 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13152 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.78	s.u.	1	0.00

Sample: 50536 - OCD Cell #14

Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 14894 Date Analyzed: 2004-12-22 Analyzed By: WB
Prep Batch: 13147 Date Prepared: 2004-12-22 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		43.6	mg/Kg	5	2.00

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Sample: 50536 - OCD Cell #14

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	15001	Date Analyzed:	2004-12-29	Analyzed By:	RR
Prep Batch:	13232	Date Prepared:	2004-12-29	Prepared By:	DS
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	15031	Date Analyzed:	2004-12-30	Analyzed By:	TP
Prep Batch:	13260	Date Prepared:	2004-12-29	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.89	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50536 - OCD Cell #14

Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	14682	Date Analyzed:	2004-12-16	Analyzed By:	DS
Prep Batch:	12974	Date Prepared:	2004-12-16	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 50537 - OCD Cell #15

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	14968	Date Analyzed:	2004-12-27	Analyzed By:	RS
Prep Batch:	13173	Date Prepared:	2004-12-27	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1	1.00
Bicarbonate Alkalinity		43.0	mg/Kg as CaCo3	1	4.00
Total Alkalinity		43.0	mg/Kg as CaCo3	1	4.00

Sample: 50537 - OCD Cell #15

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14743	Date Analyzed:	2004-12-18	Analyzed By:	AG
Prep Batch:	13028	Date Prepared:	2004-12-17	Prepared By:	AG

continued ...

sample 50537 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.15	mg/Kg	10	0.100	115	47.1 - 124
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	10	0.100	115	51.7 - 123

Sample: 50537 - OCD Cell #15

Analysis: Ca, Total
QC Batch: 14951
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Calcium		8060	mg/Kg	10	50.0

Sample: 50537 - OCD Cell #15

Analysis: Chloride (IC)
QC Batch: 14928
Prep Batch: 13161

Analytical Method: E 300.0
Date Analyzed: 2004-12-23
Date Prepared: 2004-12-23

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		93.7	mg/Kg	5	1.00

Sample: 50537 - OCD Cell #15

Analysis: Conductivity
QC Batch: 14899
Prep Batch: 13156

Analytical Method: SM 2510B
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		489	µMHOS/cm	1	0.00

Sample: 50537 - OCD Cell #15

Analysis: K, Total

Analytical Method: S 6010B

Prep Method: S 3050B

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QC Batch: 14951
Prep Batch: 13003

Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Potassium		1800	mg/Kg	1	50.0

Sample: 50537 - OCD Cell #15

Analysis: Mg, Total
QC Batch: 14951
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Magnesium		2040	mg/Kg	1	50.0

Sample: 50537 - OCD Cell #15

Analysis: Na, Total
QC Batch: 14951
Prep Batch: 13003

Analytical Method: S 6010B
Date Analyzed: 2004-12-27
Date Prepared: 2004-12-17

Prep Method: S 3050B
Analyzed By: TP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		121	mg/Kg	1	50.0

Sample: 50537 - OCD Cell #15

Analysis: pH
QC Batch: 14902
Prep Batch: 13153

Analytical Method: SM 4500-H+
Date Analyzed: 2004-12-22
Date Prepared: 2004-12-22

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
pH		8.25	s.u.	1	0.00

Sample: 50537 - OCD Cell #15

Analysis: SO4 (IC)
QC Batch: 14928
Prep Batch: 13161

Analytical Method: E 300.0
Date Analyzed: 2004-12-23
Date Prepared: 2004-12-23

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		31.5	mg/Kg	5	2.00

Sample: 50537 - OCD Cell #15

Analysis: TCLP Total 8 Metals
QC Batch: 15001
Prep Batch: 13232
Analysis: TCLP Total 8 Metals
QC Batch: 15031
Prep Batch: 13260

Analytical Method: S 6010B
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29
Analytical Method: S 7470A
Date Analyzed: 2004-12-30
Date Prepared: 2004-12-29

Prep Method: TCLP 1311
Analyzed By: RR
Prepared By: DS
Prep Method: TCLP 1311
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		<0.100	mg/L	1	0.100
TCLP Barium		2.33	mg/L	1	0.100
TCLP Cadmium		<0.0500	mg/L	1	0.0500
TCLP Chromium		<0.100	mg/L	1	0.100
TCLP Mercury		<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Selenium		<0.500	mg/L	1	0.500

Sample: 50537 - OCD Cell #15

Analysis: TPH 418.1
QC Batch: 14682
Prep Batch: 12974

Analytical Method: E 418.1
Date Analyzed: 2004-12-16
Date Prepared: 2004-12-16

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Method Blank (1) QC Batch: 14682

Parameter	Flag	Result	Units	RL
TRPHC		<10.0	mg/Kg	10

Method Blank (2) QC Batch: 14682

Parameter	Flag	Result	Units	RL
TRPHC		<10.0	mg/Kg	10

Method Blank (1) QC Batch: 14739

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001

continued...

method blank continued ...

Parameter	Flag	Result	Units	RL
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.931	mg/Kg	10	0.100	93	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.693	mg/Kg	10	0.100	69	36.6 - 112

Method Blank (1) QC Batch: 14742

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.930	mg/Kg	10	0.100	93	47.2 - 109
4-Bromofluorobenzene (4-BFB)	³	0.544	mg/Kg	10	0.100	54	63.4 - 130

Method Blank (1) QC Batch: 14743

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/Kg	0.001
Toluene		<0.00100	mg/Kg	0.001
Ethylbenzene		<0.00100	mg/Kg	0.001
Xylene		<0.00100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0935	mg/Kg	1	0.100	94	47.2 - 109
4-Bromofluorobenzene (4-BFB)	⁴	0.0565	mg/Kg	1	0.100	56	63.4 - 130

Method Blank (1) QC Batch: 14801

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

³BFB surrogate recovery is low due to prep. TFT surrogate recovery shows the method to be in control. Low BFB was not observed in other samples or QC.

⁴BFB surrogate recovery is low due to prep. TFT surrogate recovery shows the method to be in control. Low BFB was not observed in other samples or QC.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.925	mg/Kg	10	0.100	92	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.570	mg/Kg	10	0.100	57	36.6 - 112

Matrix Blank (1) QC Batch: 14893

Parameter	Flag	Result	Units	RL
Chloride		10.7	mg/Kg	1

Matrix Blank (1) QC Batch: 14893

Parameter	Flag	Result	Units	RL
Sulfate		12.5	mg/Kg	2

Matrix Blank (1) QC Batch: 14894

Parameter	Flag	Result	Units	RL
Chloride		10.8	mg/Kg	1

Matrix Blank (1) QC Batch: 14894

Parameter	Flag	Result	Units	RL
Sulfate		12.6	mg/Kg	2

Method Blank (1) QC Batch: 14899

Parameter	Flag	Result	Units	RL
Specific Conductance		2.76	μ MHOS/cm	

Method Blank (1) QC Batch: 14900

Parameter	Flag	Result	Units	RL
Specific Conductance		2.58	μ MHOS/cm	

Method Blank (1) QC Batch: 14901

Parameter	Flag	Result	Units	RL
Specific Conductance		2.58	µMHOS/cm	

Matrix Blank (1) QC Batch: 14928

Parameter	Flag	Result	Units	RL
Chloride		17.3	mg/Kg	1

Matrix Blank (1) QC Batch: 14928

Parameter	Flag	Result	Units	RL
Sulfate		16.2	mg/Kg	2

Method Blank (1) QC Batch: 14950

Parameter	Flag	Result	Units	RL
Total Calcium		<50.0	mg/Kg	50

Method Blank (1) QC Batch: 14950

Parameter	Flag	Result	Units	RL
Total Potassium		<50.0	mg/Kg	50

Method Blank (1) QC Batch: 14950

Parameter	Flag	Result	Units	RL
Total Magnesium		<50.0	mg/Kg	50

Method Blank (1) QC Batch: 14950

Parameter	Flag	Result	Units	RL
Total Sodium		<50.0	mg/Kg	50

Method Blank (1) QC Batch: 14951

Parameter	Flag	Result	Units	RL
Total Calcium		<50.0	mg/Kg	50

Method Blank (1) QC Batch: 14951

Parameter	Flag	Result	Units	RL
Total Potassium		<50.0	mg/Kg	50

Method Blank (1) QC Batch: 14951

Parameter	Flag	Result	Units	RL
Total Magnesium		<50.0	mg/Kg	50

Method Blank (1) QC Batch: 14951

Parameter	Flag	Result	Units	RL
Total Sodium		<50.0	mg/Kg	50

Method Blank (1) QC Batch: 14967

Parameter	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/Kg as CaCo3	4
Total Alkalinity		<4.00	mg/Kg as CaCo3	4

Method Blank (1) QC Batch: 14968

Parameter	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/Kg as CaCo3	4
Total Alkalinity		<4.00	mg/Kg as CaCo3	4

Method Blank (1) QC Batch: 14998

Parameter	Flag	Result	Units	RL
TCLP Silver		<0.125	mg/L	0.125

Method Blank (1) QC Batch: 14998

Parameter	Flag	Result	Units	RL
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.1
TCLP Barium		<0.100	mg/L	0.1
TCLP Cadmium		<0.0500	mg/L	0.05
TCLP Chromium		<0.100	mg/L	0.1
TCLP Lead		<0.100	mg/L	0.1
TCLP Selenium		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 15001

Parameter	Flag	Result	Units	RL
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.1
TCLP Barium		<0.100	mg/L	0.1
TCLP Cadmium		<0.0500	mg/L	0.05
TCLP Chromium		<0.100	mg/L	0.1
TCLP Lead		<0.100	mg/L	0.1
TCLP Selenium		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 15030

Parameter	Flag	Result	Units	RL
TCLP Mercury		<0.0100	mg/L	0.01

Method Blank (1) QC Batch: 15031

Parameter	Flag	Result	Units	RL
TCLP Mercury		<0.0100	mg/L	0.01

Duplicate (1) QC Batch: 14899

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance	493	489	μ MHOS/cm	1	1	20

Duplicate (1) QC Batch: 14900

continued...

duplicate continued ...

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance	325	323	μ MHOS/cm	1	1	20

Duplicate (1) QC Batch: 14901

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance	1890	1920	μ MHOS/cm	1	2	20

Duplicate (1) QC Batch: 14902

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH	8.26	8.25	s.u.	1	0	0.6

Duplicate (1) QC Batch: 14903

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH	8.77	8.78	s.u.	1	0	0.6

Duplicate (1) QC Batch: 14904

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH	8.75	8.74	s.u.	1	0	0.6

Duplicate (1) QC Batch: 14967

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/Kg as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/Kg as CaCo3	1	0	20
Bicarbonate Alkalinity	55.6	53.3	mg/Kg as CaCo3	1	4	20
Total Alkalinity	55.6	53.3	mg/Kg as CaCo3	1	4	20

Duplicate (1) QC Batch: 14968

continued ...

Param	Duplicate Result	Sample Result	Units	Dilution	duplicate continued ...	
					RPD	RPD Limit
Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/Kg as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/Kg as CaCo3	1	0	20
Bicarbonate Alkalinity	43.0	43.0	mg/Kg as CaCo3	1	0	20
Total Alkalinity	43.0	43.0	mg/Kg as CaCo3	1	0	20

Laboratory Control Spike (LCS-1) QC Batch: 14682

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TRPHC	253	255	mg/Kg	1	250	<7.12	101	1	74 - 122	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-2) QC Batch: 14682

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TRPHC	249	243	mg/Kg	1	250	<7.12	100	2	74 - 122	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14739

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.990	0.964	mg/Kg	10	0.100	<0.0333	99	3	79.8 - 114	9.4
Toluene	0.967	0.942	mg/Kg	10	0.100	<0.0353	97	3	79.7 - 115	7.5
Ethylbenzene	0.996	0.975	mg/Kg	10	0.100	<0.0339	100	2	78.7 - 116	8
Xylene	2.81	2.74	mg/Kg	10	0.300	<0.103	94	2	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.986	0.948	mg/Kg	10	0.100	99	95	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.961	0.932	mg/Kg	10	0.100	96	93	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14742

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.830	0.854	mg/Kg	10	0.100	<0.0153	83	3	71.9 - 117	9.4
Toluene	0.867	0.884	mg/Kg	10	0.100	<0.00954	87	2	74.1 - 115	8.2
Ethylbenzene	0.918	0.937	mg/Kg	10	0.100	<0.00954	92	2	77.8 - 115	9.7
Xylene	3.01	3.06	mg/Kg	10	0.300	<0.0300	100	2	80.6 - 119	10.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.817	0.839	mg/Kg	10	0.100	82	84	60.7 - 130
4-Bromofluorobenzene (4-BFB)	0.806	0.836	mg/Kg	10	0.100	81	84	75.3 - 114

Laboratory Control Spike (LCS-1) QC Batch: 14743

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0893	0.0906	mg/Kg	1	0.100	<0.00153	89	1	71.9 - 117	9.4
Toluene	0.0889	0.0907	mg/Kg	1	0.100	<0.000954	89	2	74.1 - 115	8.2
Ethylbenzene	0.0953	0.0966	mg/Kg	1	0.100	<0.000954	95	1	77.8 - 115	9.7
Xylene	0.313	0.316	mg/Kg	1	0.300	<0.00300	104	1	80.6 - 119	10.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0860	0.0871	mg/Kg	1	0.100	86	87	60.7 - 130
4-Bromofluorobenzene (4-BFB)	0.0870	0.0868	mg/Kg	1	0.100	87	87	75.3 - 114

Laboratory Control Spike (LCS-1) QC Batch: 14801

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.946	0.952	mg/Kg	10	0.100	<0.0333	95	1	79.8 - 114	9.4
Toluene	0.924	0.933	mg/Kg	10	0.100	<0.0353	92	1	79.7 - 115	7.5
Ethylbenzene	0.963	0.973	mg/Kg	10	0.100	<0.0339	96	1	78.7 - 116	8
Xylene	2.71	2.75	mg/Kg	10	0.300	<0.103	90	1	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.953	0.982	mg/Kg	10	0.100	95	98	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.893	0.926	mg/Kg	10	0.100	89	93	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14893

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	22.6	23.1	mg/Kg	1	12.5	10.7	95	2	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14893

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	24.7	24.7	mg/Kg	1	12.5	12.5	98	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14894

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	24.3	24.5	mg/Kg	1	12.5	10.8	108	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14894

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	24.7	24.9	mg/Kg	1	12.5	12.6	97	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14928

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	29.4	29.4	mg/Kg	1	12.5	17.3	97	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14928

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	28.5	28.5	mg/Kg	1	12.5	16.2	98	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14950

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Calcium	12400	11400	mg/Kg	100	100	<64.2	124	8	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14950

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Potassium	10300	9690	mg/Kg	100	100	<166	103	6	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14950

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Magnesium	10900	10700	mg/Kg	100	100	<642	109	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14950

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Sodium	10500	9910	mg/Kg	100	100	<174	105	6	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14951

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Calcium	12400	11400	mg/Kg	100	100	<64.2	124	8	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14951

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Potassium	10300	9690	mg/Kg	100	100	<166	103	6	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14951

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Magnesium	10900	10700	mg/Kg	100	100	<642	109	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14951

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Sodium	10500	9910	mg/Kg	100	100	<174	105	6	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14998

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Silver	1.24	1.25	mg/L	1	1.25	<0.00780	99	1	91.1 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 14998

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Silver	1.24	1.25	mg/L	1	1.25	<0.00780	99	1	91.1 - 118	20
TCLP Arsenic	5.06	5.14	mg/L	1	5.00	<0.0590	101	2	81.1 - 123	20
TCLP Barium	10.1	10.1	mg/L	1	10.0	<0.00340	101	0	86 - 122	20
TCLP Cadmium	2.54	2.56	mg/L	1	2.50	<0.00270	102	1	84.8 - 124	20
TCLP Chromium	1.07	1.08	mg/L	1	1.00	<0.00660	107	1	81.7 - 120	20
TCLP Lead	5.06	5.17	mg/L	1	5.00	<0.0370	101	2	86.4 - 123	20
TCLP Selenium	4.65	4.68	mg/L	1	5.00	<0.100	93	1	84.4 - 111	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 15001

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Silver	1.24	1.25	mg/L	1	1.25	<0.00780	99	1	91.1 - 118	20
TCLP Arsenic	5.06	5.14	mg/L	1	5.00	<0.0590	101	2	81.1 - 123	20
TCLP Barium	10.1	10.1	mg/L	1	10.0	<0.00340	101	0	86 - 122	20
TCLP Cadmium	2.54	2.56	mg/L	1	2.50	<0.00270	102	1	84.8 - 124	20
TCLP Chromium	1.07	1.08	mg/L	1	1.00	<0.00660	107	1	81.7 - 120	20
TCLP Lead	5.06	5.17	mg/L	1	5.00	<0.0370	101	2	86.4 - 123	20
TCLP Selenium	4.65	4.68	mg/L	1	5.00	<0.100	93	1	84.4 - 111	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 15030

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Mercury	0.0546	0.0543	mg/L	1	0.0500	<0.00177	109	0	82.3 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 15031

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Mercury	0.0546	0.0543	mg/L	1	0.0500	<0.00177	109	0	82.3 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14682 Spiked Sample: 50524

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TRPHC	175	176	mg/Kg	1	250	<7.12	70	0	50 - 142	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-2) QC Batch: 14682 Spiked Sample: 50537

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TRPHC	174	176	mg/Kg	1	250	<7.12	70	1	50 - 142	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14739 Spiked Sample: 50511

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene ⁵⁶	0.752	0.744	mg/Kg	10	0.100	0.254	50	1	63.5 - 98.6	12
Toluene ⁷⁸	0.783	0.763	mg/Kg	10	0.100	0.281	50	2	65.8 - 102	11.4
Ethylbenzene ⁹¹⁰	0.854	0.842	mg/Kg	10	0.100	0.368	49	1	66.6 - 106	10.5
Xylene ¹¹¹²	2.42	2.39	mg/Kg	10	0.300	1.04	46	1	67.4 - 108	10.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.796	0.784	mg/Kg	10	0.1	80	78	60.1 - 104
4-Bromofluorobenzene (4-BFB)	0.851	0.840	mg/Kg	10	0.1	85	84	63.1 - 105

Matrix Spike (MS-1) QC Batch: 14742 Spiked Sample: 50533

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	1.07	1.05	mg/Kg	10	0.100	<0.0153	107	2	45.5 - 124	17.9
Toluene	1.10	1.07	mg/Kg	10	0.100	<0.00954	109	3	50.2 - 119	16.9
Ethylbenzene ¹³	1.17	1.13	mg/Kg	10	0.100	<0.00954	117	3	51.9 - 115	18.2
Xylene ¹⁴	3.78	3.69	mg/Kg	10	0.300	<0.0300	126	2	49.2 - 125	15.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.19	0.992	mg/Kg	10	0.1	119	99	47.1 - 124
4-Bromofluorobenzene (4-BFB)	1.13	1.11	mg/Kg	10	0.1	113	111	51.7 - 123

Matrix Spike (MS-1) QC Batch: 14743 Spiked Sample: 50536

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.924	1.02	mg/Kg	10	0.100	<0.0153	92	10	45.5 - 124	17.9
Toluene	0.940	1.03	mg/Kg	10	0.100	<0.00954	93	9	50.2 - 119	16.9

continued ...

⁵Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

⁶Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

⁷Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

⁸Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

⁹Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

¹⁰Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

¹¹Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

¹²Value and RPD falls within acceptable range. LCS/LCSD shows analysis to be under control.

¹³High analyte recovery due to peak interference. LCS and LCSD show the method to be in control.

¹⁴High analyte recovery due to peak interference. LCS and LCSD show the method to be in control.

matrix spikes continued...

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Ethylbenzene	0.994	1.10	mg/Kg	10	0.100	<0.00954	99	10	51.9 - 115	18.2
Xylene	3.25	3.60	mg/Kg	10	0.300	<0.0300	108	10	49.2 - 125	15.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.985	1.15	mg/Kg	10	0.1	98	115	47.1 - 124
4-Bromofluorobenzene (4-BFB)	1.03	1.13	mg/Kg	10	0.1	103	113	51.7 - 123

Matrix Spike (MS-1) QC Batch: 14893 Spiked Sample: 50526

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	967	962	mg/Kg	50	12.5	372	95	0	69.4 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14893 Spiked Sample: 50526

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	1070	1060	mg/Kg	50	12.5	452	99	1	89.8 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14894 Spiked Sample: 50536

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride ¹⁵¹⁶	131	123	mg/Kg	5	12.5	46.1	136	6	69.4 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14894 Spiked Sample: 50536

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	109	109	mg/Kg	5	12.5	43.6	105	0	89.8 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14928 Spiked Sample: 50537

continued...

¹⁵Matrix spike due to matrix effects. LCS shows the method to be in control.

¹⁶Matrix spike due to matrix effects. LCS shows the method to be in control.

matrix spikes continued ...

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	163	159	mg/Kg	5	12.5	93.7	111	2	69.4 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14928 Spiked Sample: 50537

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	95.2	92.8	mg/Kg	5	12.5	31.5	102	2	89.8 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14950 Spiked Sample: 50524

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Calcium	24300	24800	mg/Kg	100	100	13500	108	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14950 Spiked Sample: 50524

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Potassium	12700	12000	mg/Kg	100	100	2810	99	6	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14950 Spiked Sample: 50524

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Magnesium	13400	12600	mg/Kg	100	100	3630	98	6	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14950 Spiked Sample: 50524

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Sodium	10500	10000	mg/Kg	100	100	762	97	5	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14951 Spiked Sample: 50533

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Calcium	122000	136000	mg/Kg	100	100	124000	20	11	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14951 Spiked Sample: 50533

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Potassium	12000	12700	mg/Kg	100	100	1620	104	6	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14951 Spiked Sample: 50533

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Magnesium	14100	14300	mg/Kg	100	100	4060	100	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14951 Spiked Sample: 50533

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Sodium	11000	11800	mg/Kg	100	100	663	103	7	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14998 Spiked Sample: 50343

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Silver	1.22	1.25	mg/L	1	1.25	<0.00780	98	2	91.1 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 14998 Spiked Sample: 50343

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Silver	1.22	1.25	mg/L	1	1.25	<0.00780	98	2	91.1 - 118	20
TCLP Arsenic	5.05	5.09	mg/L	1	5.00	<0.0590	101	1	81.1 - 123	20
TCLP Barium	10.9	11.1	mg/L	1	10.0	1.53	94	2	86 - 122	20
TCLP Cadmium	2.46	2.51	mg/L	1	2.50	<0.00270	98	2	84.8 - 124	20
TCLP Chromium	1.06	1.07	mg/L	1	1.00	<0.00660	106	1	81.7 - 120	20
TCLP Lead	4.89	4.94	mg/L	1	5.00	<0.0370	98	1	86.4 - 123	20
TCLP Selenium	4.56	4.60	mg/L	1	5.00	<0.100	91	1	84.4 - 111	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

¹⁷No matrix spike recovery due to matrix effect, LCS/LCSD shows process under control.

Matrix Spike (MS-1) QC Batch: 15001 Spiked Sample: 50533

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Silver	1.21	1.23	mg/L	1	1.25	<0.00780	97	2	91.1 - 118	20
TCLP Arsenic	4.85	4.96	mg/L	1	5.00	<0.0590	97	2	81.1 - 123	20
TCLP Barium	11.8	11.9	mg/L	1	10.0	2.29	95	1	86 - 122	20
TCLP Cadmium	2.44	2.48	mg/L	1	2.50	<0.00270	98	2	84.8 - 124	20
TCLP Chromium	1.03	1.04	mg/L	1	1.00	<0.00660	103	1	81.7 - 120	20
TCLP Lead	4.92	4.98	mg/L	1	5.00	<0.0370	98	1	86.4 - 123	20
TCLP Selenium	4.58	4.63	mg/L	1	5.00	<0.100	92	1	84.4 - 111	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 15030 Spiked Sample: 51598

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Mercury	0.0510	0.0504	mg/L	1	0.0500	<0.00177	102	1	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 15031 Spiked Sample: 50528

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TCLP Mercury	0.0499	0.0507	mg/L	1	0.0500	<0.00177	100	2	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1) QC Batch: 14682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	91.5	92	80 - 120	2004-12-16

Standard (CCV-2) QC Batch: 14682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	91.2	91	80 - 120	2004-12-16

Standard (CCV-3) QC Batch: 14682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	90.7	91	80 - 120	2004-12-16

Standard (ICV-2) QC Batch: 14682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	91.1	91	80 - 120	2004-12-16

Standard (CCV-4) QC Batch: 14682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	92.9	93	80 - 120	2004-12-16

Standard (ICV-1) QC Batch: 14739

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0982	98	85 - 115	2004-12-17
Toluene		mg/Kg	0.100	0.0959	96	85 - 115	2004-12-17
Ethylbenzene		mg/Kg	0.100	0.0990	99	85 - 115	2004-12-17
Xylene		mg/Kg	0.300	0.278	93	85 - 115	2004-12-17

Standard (CCV-1) QC Batch: 14739

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0971	97	85 - 115	2004-12-17
Toluene		mg/Kg	0.100	0.0952	95	85 - 115	2004-12-17
Ethylbenzene		mg/Kg	0.100	0.0986	99	85 - 115	2004-12-17
Xylene		mg/Kg	0.300	0.278	93	85 - 115	2004-12-17

Standard (CCV-2) QC Batch: 14739

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0962	96	85 - 115	2004-12-17
Toluene		mg/Kg	0.100	0.0950	95	85 - 115	2004-12-17
Ethylbenzene		mg/Kg	0.100	0.0983	98	85 - 115	2004-12-17
Xylene		mg/Kg	0.300	0.280	93	85 - 115	2004-12-17

Standard (ICV-1) QC Batch: 14742

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0871	87	85 - 115	2004-12-18
Toluene		mg/Kg	0.100	0.0864	86	85 - 115	2004-12-18
Ethylbenzene		mg/Kg	0.100	0.0933	93	85 - 115	2004-12-18
Xylene		mg/Kg	0.300	0.307	102	85 - 115	2004-12-18

Standard (CCV-1) QC Batch: 14742

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0888	89	85 - 115	2004-12-18
Toluene		mg/Kg	0.100	0.0914	91	85 - 115	2004-12-18
Ethylbenzene		mg/Kg	0.100	0.0976	98	85 - 115	2004-12-18
Xylene		mg/Kg	0.300	0.320	107	85 - 115	2004-12-18

Standard (CCV-2) QC Batch: 14742

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0877	88	85 - 115	2004-12-18
Toluene		mg/Kg	0.100	0.0899	90	85 - 115	2004-12-18
Ethylbenzene		mg/Kg	0.100	0.0961	96	85 - 115	2004-12-18
Xylene		mg/Kg	0.300	0.315	105	85 - 115	2004-12-18

Standard (ICV-1) QC Batch: 14743

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0851	85	85 - 115	2004-12-18
Toluene		mg/Kg	0.100	0.0874	87	85 - 115	2004-12-18
Ethylbenzene		mg/Kg	0.100	0.0948	95	85 - 115	2004-12-18
Xylene		mg/Kg	0.300	0.311	104	85 - 115	2004-12-18

Standard (CCV-1) QC Batch: 14743

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0865	86	85 - 115	2004-12-18
Toluene		mg/Kg	0.100	0.0881	88	85 - 115	2004-12-18
Ethylbenzene		mg/Kg	0.100	0.0928	93	85 - 115	2004-12-18
Xylene		mg/Kg	0.300	0.305	102	85 - 115	2004-12-18

Standard (CCV-1) QC Batch: 14801

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0951	95	85 - 115	2004-12-20
Toluene		mg/Kg	0.100	0.0933	93	85 - 115	2004-12-20
Ethylbenzene		mg/Kg	0.100	0.0976	98	85 - 115	2004-12-20
Xylene		mg/Kg	0.300	0.275	92	85 - 115	2004-12-20

Standard (CCV-2) QC Batch: 14801

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0966	97	85 - 115	2004-12-20
Toluene		mg/Kg	0.100	0.0946	95	85 - 115	2004-12-20
Ethylbenzene		mg/Kg	0.100	0.0989	99	85 - 115	2004-12-20
Xylene		mg/Kg	0.300	0.278	93	85 - 115	2004-12-20

Standard (ICV-1) QC Batch: 14893

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	11.9	95	90 - 110	2004-12-22

Standard (ICV-1) QC Batch: 14893

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/Kg	12.5	12.2	98	90 - 110	2004-12-22

Standard (CCV-1) QC Batch: 14893

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.6	101	90 - 110	2004-12-22

Standard (CCV-1) QC Batch: 14893

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/Kg	12.5	12.2	98	90 - 110	2004-12-22

Standard (ICV-1) QC Batch: 14894

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.6	101	90 - 110	2004-12-22

Standard (ICV-1) QC Batch: 14894

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/Kg	12.5	12.2	98	90 - 110	2004-12-22

Standard (CCV-1) QC Batch: 14894

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.7	102	90 - 110	2004-12-22

Standard (CCV-1) QC Batch: 14894

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/Kg	12.5	12.4	99	90 - 110	2004-12-22

Standard (ICV-1) QC Batch: 14899

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μ MHOS/cm	1410	1430	101	90 - 110	2004-12-22

Standard (CCV-1) QC Batch: 14899

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μ MHOS/cm	1410	1440	102	90 - 110	2004-12-22

Standard (ICV-1) QC Batch: 14900

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μ MHOS/cm	1410	1430	101	90 - 110	2004-12-22

Standard (CCV-1) QC Batch: 14900

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μ MHOS/cm	1410	1440	102	90 - 110	2004-12-22

Standard (ICV-1) QC Batch: 14901

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μ MHOS/cm	1410	1440	102	90 - 110	2004-12-22

Standard (CCV-1) QC Batch: 14901

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		µMHOS/cm	1410	1450	103	90 - 110	2004-12-22

Standard (ICV-1) QC Batch: 14902

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	7.11	102	98 - 102	2004-12-22

Standard (CCV-1) QC Batch: 14902

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	7.09	101	98 - 102	2004-12-22

Standard (ICV-1) QC Batch: 14903

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	7.11	102	98 - 102	2004-12-22

Standard (CCV-1) QC Batch: 14903

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	7.08	101	98 - 102	2004-12-22

Standard (ICV-1) QC Batch: 14904

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	7.10	101	98 - 102	2004-12-22

Standard (CCV-1) QC Batch: 14904

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	7.08	101	98 - 102	2004-12-22

Standard (ICV-1) QC Batch: 14928

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.7	102	90 - 110	2004-12-23

Standard (ICV-1) QC Batch: 14928

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/Kg	12.5	12.5	100	90 - 110	2004-12-23

Standard (CCV-1) QC Batch: 14928

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.2	98	90 - 110	2004-12-23

Standard (CCV-1) QC Batch: 14928

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/Kg	12.5	12.4	99	90 - 110	2004-12-23

Standard (ICV-1) QC Batch: 14950

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Calcium		mg/Kg	25.0	27.2	109	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14950

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Potassium		mg/Kg	25.0	25.1	100	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14950

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Magnesium		mg/Kg	25.0	26.9	108	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14950

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	25.0	26.1	104	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14950

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Calcium		mg/Kg	25.0	25.8	103	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14950

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Potassium		mg/Kg	25.0	26.3	105	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14950

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Magnesium		mg/Kg	25.0	25.5	102	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14950

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	25.0	26.7	107	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14951

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Calcium		mg/Kg	25.0	27.2	109	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14951

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Potassium		mg/Kg	25.0	25.1	100	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14951

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Magnesium		mg/Kg	25.0	26.9	108	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14951

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	25.0	26.1	104	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14951

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Calcium		mg/Kg	25.0	24.5	98	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14951

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Potassium		mg/Kg	25.0	26.7	107	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14951

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Magnesium		mg/Kg	25.0	24.4	98	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14951

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/Kg	25.0	26.1	104	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14967

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/Kg as CaCo3	250	240	96	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14967

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/Kg as CaCo3	250	246	98	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14968

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/Kg as CaCo3	250	246	98	90 - 110	2004-12-27

Standard (CCV-1) QC Batch: 14968

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/Kg as CaCo3	250	242	97	90 - 110	2004-12-27

Standard (ICV-1) QC Batch: 14998

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Silver		mg/L	0.125	0.125	100	90 - 110	2004-12-29

Standard (ICV-1) QC Batch: 14998

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Silver		mg/L	0.125	0.125	100	90 - 110	2004-12-29
TCLP Arsenic		mg/L	1.00	0.996	100	90 - 110	2004-12-29
TCLP Barium		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Cadmium		mg/L	1.00	1.00	100	90 - 110	2004-12-29
TCLP Chromium		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Lead		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Selenium		mg/L	1.00	0.996	100	90 - 110	2004-12-29

Standard (CCV-1) QC Batch: 14998

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Silver		mg/L	0.125	0.125	100	90 - 110	2004-12-29

Standard (CCV-1) QC Batch: 14998

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Silver		mg/L	0.125	0.125	100	90 - 110	2004-12-29
TCLP Arsenic		mg/L	1.00	0.997	100	90 - 110	2004-12-29
TCLP Barium		mg/L	1.00	1.00	100	90 - 110	2004-12-29
TCLP Cadmium		mg/L	1.00	1.00	100	90 - 110	2004-12-29
TCLP Chromium		mg/L	1.00	1.00	100	90 - 110	2004-12-29
TCLP Lead		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Selenium		mg/L	1.00	0.990	99	90 - 110	2004-12-29

Standard (ICV-1) QC Batch: 15001

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Silver		mg/L	0.125	0.125	100	90 - 110	2004-12-29
TCLP Arsenic		mg/L	1.00	0.996	100	90 - 110	2004-12-29
TCLP Barium		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Cadmium		mg/L	1.00	1.00	100	90 - 110	2004-12-29
TCLP Chromium		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Lead		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Selenium		mg/L	1.00	0.996	100	90 - 110	2004-12-29

Standard (CCV-1) QC Batch: 15001

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Silver		mg/L	0.125	0.126	101	90 - 110	2004-12-29
TCLP Arsenic		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Barium		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Cadmium		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Chromium		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Lead		mg/L	1.00	1.01	101	90 - 110	2004-12-29
TCLP Selenium		mg/L	1.00	1.01	101	90 - 110	2004-12-29

Standard (ICV-1) QC Batch: 15030

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.00500	0.00493	99	90 - 110	2004-12-30

Standard (CCV-1) QC Batch: 15030

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.00500	0.00468	94	80 - 120	2004-12-30

Standard (ICV-1) QC Batch: 15031

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.00500	0.00493	99	90 - 110	2004-12-30

Standard (CCV-1) QC Batch: 15031

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.00500	0.00469	94	80 - 120	2004-12-30

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TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

Company Name: Gandy Marley Inc.
Address: PO Box 1658 Roswell, NM 86202-1658
Contact Person: Mike Marley or Larry Gandy
Phone #: 505-347-0434
Fax #: 505-347-0435
Lab #: 505-309-5721

Project #: Annual Sampling (NM-711-1-0020)
Project Name: Gandy Marley Land Farm
Project Location: Chavis Co. PM SW 1/4 Sec. 4, SE 1/4 Sec. 5, NE 1/4 Sec. 8, NW 1/4 Sec. 9 T.11S. R. 31E
Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX						PRESERVATIVE METHOD						DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE				
50523	OC-D Cell #1	2	2/400	X												12/14/04	14:15
24	OC-D Cell #2	2	2/400	X												12/14/04	15:00
25	OC-D Cell #3	2	2/400	X												12/14/04	15:25
26	OC-D Cell #4	2	2/400	X												12/14/04	15:45
27	OC-D Cell #5	2	2/400	X												12/14/04	09:51
28	OC-D Cell #6	2	2/400	X												12/14/04	10:04
29	OC-D Cell #7	2	2/400	X												12/14/04	10:18
30	OC-D Cell #8	2	2/400	X												12/14/04	10:42
31	OC-D Cell #9	2	2/400	X												12/14/04	11:02
32	OC-D Cell #10	2	2/400	X												12/14/04	11:18
33	OC-D Cell #11	2	2/400	X												12/14/04	11:35

Relinquished by: [Signature] Date: 12/13/04 Time: 10:16
Relinquished by: [Signature] Date: 12/13/04 Time: 10:16
Relinquished by: [Signature] Date: 12/13/04 Time: 10:16
Relinquished by: [Signature] Date: 12/13/04 Time: 10:16

Received by: [Signature] Date: 12/14/04 Time: 14:15
Received by: [Signature] Date: 12/14/04 Time: 15:00
Received by: [Signature] Date: 12/14/04 Time: 15:25
Received by: [Signature] Date: 12/14/04 Time: 15:45
Received by: [Signature] Date: 12/14/04 Time: 09:51
Received by: [Signature] Date: 12/14/04 Time: 10:04
Received by: [Signature] Date: 12/14/04 Time: 10:18
Received by: [Signature] Date: 12/14/04 Time: 10:42
Received by: [Signature] Date: 12/14/04 Time: 11:02
Received by: [Signature] Date: 12/14/04 Time: 11:18
Received by: [Signature] Date: 12/14/04 Time: 11:35

LAB USE ONLY
Intact Y N
Headspace Y N
Temp 22°C
Log-In Review NR

REMARKS: Bill Gandy Marley Inc direct for analysis only. Please send copy of results to NM 86202 Box 2307 Roswell, NM 86202 or email: Cmbenavioe@dm.com

Check if Special Reporting Limits Are Needed ☐

Carrier: INMWD 903 293-0230

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ORIGINAL COPY

Page 2 of 2

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296		155 McCuehew, Suite 14 El Paso, Texas 79932 Tel (915) 585-3443 Fax (915) 585-4944 1 (800) 588-3443		TraceAnalysis, Inc.		Company Name: <u>Gandy Marley, Inc.</u> Address: <u>(Street, City, Zip)</u> <u>PO Box 1658</u> Contact Person: <u>Mike Marley or Larry Gandy</u> Invoice to: <u>(if different from above)</u> Project #: <u>Annual Sampling (NM-711-1-0020)</u> Project Location: <u>Charles Co., NM</u> <u>SW 1/4 Sec 4, T11S, R31E, NE 1/4 Sec 5, NE 1/4 Sec 8, NW 1/4 Sec 9, T11S, R31E</u>		Phone #: <u>505-347-0434</u> Fax #: <u>505-347-0435</u>		LAB Order ID # <u>4121407</u>		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST						
LAB #	FIELD CODE	# CONTAINERS	VOLUME/AMOUNT	MATRIX	PRESERVATIVE METHOD	SAMPLING DATE	TIME	ANALYSIS REQUEST (Circle or Specify Method No.)				LAB USE ONLY						
505 34	OC Cell # 12	2	4oz	WATER	HCl	12/16/04	12:12	PAH 8270C	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Semivolatiles	TCLP Pesticides	RCI	GCMS Vol 8260B/624	GCMS Semi Vol 8270C/625	PCBs 8082/608	Pesticides 8081A/608	BOD TSS pH	Turn Around Time if different from standard
35	OC Cell # 13	2	4oz	AIR	H ₂ SO ₄	12/16/04	12:12	TPH 418 1/TX1005	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Semivolatiles	TCLP Pesticides	RCI	GCMS Vol 8260B/624	GCMS Semi Vol 8270C/625	PCBs 8082/608	Pesticides 8081A/608	BOD TSS pH	Turn Around Time if different from standard
36	OC Cell # 14	2	4oz	SOIL	HNO ₃	12/16/04	12:50	MTBE 80218/602	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Semivolatiles	TCLP Pesticides	RCI	GCMS Vol 8260B/624	GCMS Semi Vol 8270C/625	PCBs 8082/608	Pesticides 8081A/608	BOD TSS pH	Turn Around Time if different from standard
37	OC Cell # 15	2	4oz	SLUDGE	ICE	12/16/04	13:21	MTBE 80218/602	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Semivolatiles	TCLP Pesticides	RCI	GCMS Vol 8260B/624	GCMS Semi Vol 8270C/625	PCBs 8082/608	Pesticides 8081A/608	BOD TSS pH	Turn Around Time if different from standard
Temp Blank														REMARKS: Bill Gandy Marley Land Farm Directly for Analysis Send Copy of Results to CMAA PO Box 2314 Roswell NM 88102-2314 or email: CMAA@earthlink.net				
Relinquished by: <u>[Signature]</u>	Date: <u>12/16/04</u>	Time: <u>10:16</u>	Received by:	Date:	Time:	LAB USE ONLY Intact <u>Y/N</u> Headspace <u>Y/N</u> Temp <u>20°C</u> Log-in Review <u>MK</u>			Check if Special Reporting Limits Are Needed ☐									
Relinquished by: <u>[Signature]</u>	Date: <u>12/16/04</u>	Time: <u>10:16</u>	Received by:	Date:	Time:	Relinquished by: <u>[Signature]</u>			Date: <u>12/16/04</u>	Time: <u>10:24</u>	Carner # <u>TN MTD 903 293-0236</u>							

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6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

**155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443**

Company Name: Gandy Marley, Inc.

Phone #: 505-347-0434

Address: (Street, City, Zip)
D9 Box 1658

Fax #: 505-347-0435

Contact Person: Mike Marley or Larry Gandy

Invoice to:
(If different from above)

Project #: Annual Sampling (NM-711-1-0020) Project Name: Gandy Mackey Long Farm
Project Location: Chaves Co., NM - Sampler Signature: _____

Sampler Signature: Samuel D. G. 11/11/11

SW/4 Sec 4, SE/4 Sec 5, NE/4 Sec 8 NW/4 Sec 9 T11S. R31E

[illegible]

Ref: Acquired by 10/12/04 10:16
 Date: 10/12/04 Time: 10:16

Relinquished by: _____ Date: _____ Time: _____

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

Received at Laboratory by: W. L. Dunn Date: 12-14-64 Time: 10:24

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ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

LAB USE ONLY

Impact (Y/N)
Headspace Y/N
Temp 22°
Log-in/Review MP

REMARKS: Bill Gandy Marking
Directly For Analysis Costs.
Send Copy of Results to
CMB PO Box 2304 Russell NM
86202-2304 or CMO, P.
CMBearvine dfa.
☐ Check If Special Reporting
Limits Are Needed

Carrier # TN M40 903 293 - 0236



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

April 8, 2002

CERTIFIED MAIL
RETURN RECEIPT NO. 7001-1940-0004-7923-4047

Mr. Mike Marley
Gandy Marley, Inc.
P.O. Box 1658
Roswell, NM 88202

RE: Approval for additional lifts
Gandy Marley, Inc., NM-01-0028 ²⁰¹⁹
Sections 4, 5, 8, and 9, Township 11 South, Range 31 East, NMPM,
Chaves County, New Mexico

Dear Mr. Gandy:

The New Mexico Oil Conservation Division (OCD) has received Gandy Marley, Inc. (GMI) request and analytical results dated April 1, 2002 for authorization to apply another lift to Cell 1. Based on the information provided, **Cell 1 is hereby approved** for the addition of a successive lift.

Note that with the addition of successive lifts GMI must continue maintenance and treatment zone monitoring at 2 to 3 feet below the original ground surface. If GMI wants to move the soils from the facility separate OCD authorization must be granted.

Please be advised that OCD approval does not relieve GMI of liability should their operation result in pollution of the ground water, surface water or the environment. In addition, OCD approval does not relieve GMI of the responsibility for compliance with other federal, state and/or local regulations.

If you have any questions please do not hesitate to contact me at (505) 476-3488.

Sincerely,

Martyne J. Kaeling
Environmental Geologist

xc: OCD Hobbs Office



COMMERCIAL LAND FARMS
A New Mexico Enterprise
Serving New Mexico's Needs

RECEIVED

APR 03 2002

Environmental Bureau
Oil Conservation Division

April 1, 2002

Re: NM-711-1-0020

Ms. Martyne J. Kieling
Environmental Geologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Dear Ms. Kieling:

Please find enclosed copies of quarterly analysis of the OCD land farm, and a copy of the analysis for OCD cell 1. Gandy Marley, Inc. is requesting approval to begin applying contaminated soils over the remediated cell 1.

Thank you, for your consideration in this matter.

Sincerely,

Mike Marley
Gandy Marley, Inc.



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

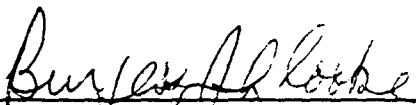
ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
ATTN: L. GANDY
P.O. BOX 1658
ROSWELL, NM 8802
FAX TO: (505) 398-6887

Receiving Date: 01/15/02
Reporting Date: 01/16/02
Project Number: NOT GIVEN
Project Name: REMEDIATION STANDARDS
Project Location: OCD CELL #1

Sampling Date: 01/15/02
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		01/15/02	01/15/02	01/15/02	01/15/02	01/15/02
H6437-1	20102	1890	<0.005	<0.005	<0.005	<0.015
H6437-2	20103	1980	<0.005	<0.005	<0.005	<0.015
Quality Control		241	0.099	0.102	0.106	0.307
True Value QC		240	0.100	0.100	0.100	0.300
% Recovery		100	99.3	102	106	102
Relative Percent Difference		5.1	5.5	9.1	7.5	5.3

METHODS: TRPHC - EPA 600/7-79-020, 418.1; BTEX - EPA SW-846-8020


Burgess J. A. Cooke, Ph. D.

1/16/02
Date

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H6437.XLS



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2111 Beechwood, Abilene, TX 79603

(915) 673-7001 Fax (915) 673-7020

101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

ANALYSIS REQUEST

Company Name: Gandy Molding Inc

Project Manager: 1 Gandy

Address: 1200 N. 11th St

City: Roswell State: NM Zip: 88202

Phone #: 505-398-4960

Fax #: 505-4887

Project #: Project Owner:

Project Name: Remediation Shindler

Project Location: OOD cell #1

FOR LAB USE ONLY

BILL TO PO #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

LAB I.D. Sample I.D.

H457-1
-2

20102
20103

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID:
ICE / COOL
OTHER:

MATRIX

PRES.

SAMPLING

DATE TIME

1-15-02 10 AM
1-15-02 10 AM

X X
X X

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Sampler Relinquished:

Date: 1-15-02

Received By:

Relinquished By: 1 Gandy

Date: 1-15-02

Received By: (Lab Staff)

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition: Good

CHECKED BY: (Initials)

Cool Intact

☒ Yes ☐ No

REMARKS:

Phone Result: ☐ Yes ☐ No Additional Fax #: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

* Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



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

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
ATTN: LARRY GANDY
P.O. BOX 1658
ROSWELL, NM 88202
FAX TO: (505) 398-6887

Receiving Date: 01/15/02
Reporting Date: 01/18/02
Project Number: NOT GIVEN
Project Name: QTRLY REPORTS
Project Location: OCD LANDFARM

Sampling Date: 01/15/02
Sample Type: SOIL
Sample Condition: COOL AND INTACT
Sample Received By: BC
Analyzed By: AH

RCRA METALS

LAB NUMBER	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	01/18/02	01/17/02	01/17/02	01/17/02	01/17/02	01/17/02	01/17/02	01/17/02	01/18/02
H6438-1 10202	1.26	0.95	72	2.85	5.80	<1	<0.2	0.218	
H6438-2 10302	1.27	0.80	52	2.95	9.00	<1	<0.2	0.175	
H6438-3 10402	1.07	0.75	40	2.85	6.10	<1	<0.2	0.082	
H6438-4 10502	1.51	0.90	139	3.30	8.10	<1	<0.2	0.174	
H6438-5 10602	1.54	1.20	103	3.20	8.35	<1	<0.2	0.168	
H6438-6 10702	1.32	1.05	123	3.40	7.20	<1	<0.2	0.103	
H6438-7 10802	2.32	1.30	173	3.80	7.40	<1	<0.2	0.267	
H6438-8 10902	1.90	1.30	171	4.05	6.75	<1	<0.2	0.209	
H6438-9 11002	2.43	1.40	129	3.75	6.35	<1	<0.2	0.206	
H6438-10 11102	1.14	1.20	137	3.90	5.05	<1	<0.2	0.081	
H6438-11 11202	1.97	1.50	200	3.90	5.85	<1	<0.2	0.205	
H6438-12 11302	2.68	1.75	308	4.55	8.15	<1	<0.2	0.258	
Quality Control	0.140	5.005	27.17	0.551	4.936	4.776	0.0106	0.056	
True Value QC	0.150	5.000	25.00	0.500	5.000	5.000	0.0100	0.050	
% Recovery	93.3	100	109	110	98.7	95.5	106	112	
Relative Percent Difference	2.3	0.2	5.5	0.9	0.1	0.7	6.0	2.0	

METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740

Chemist

Date

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

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
ATTN: LARRY GANDY
P.O. BOX 1658
ROSWELL, NM 88202
FAX TO: (505) 398-6887

Receiving Date: 01/15/02
Reporting Date: 01/22/02
Project Number: NOT GIVEN
Project Name: QTRLY REPORTS
Project Location: OCD LANDFARM

Sampling Date: 01/15/02
Sample Type: SOIL
Sample Condition: COOL AND INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/Kg)	Ca (mg/Kg)	Mg (mg/Kg)	K (mg/Kg)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /Kg)
ANALYSIS DATE:		01/22/02	01/21/02	01/21/02	01/22/02	01/22/02	01/21/02
H6438-1	10202	38	128	4	64	483	373
H6438-2	10302	57	77	31	51	438	426
H6438-3	10402	212	71	54	112	351	426
H6438-4	10502	105	83	35	31	875	373
H6438-5	10602	72	83	23	30	838	266
H6438-6	10702	59	71	23	48	454	373
Quality Control		NR	55	49	5.27	1489	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	110	97.2	105	105	NR
Relative Percent Difference		NR	0	6.0	0	0.3	NR

METHODS:	SM3500-Ca-D3500-Mg E	8049	120.1	310.1
----------	----------------------	------	-------	-------

	Cl ⁻ (mg/Kg)	SO ₄ (mg/Kg)	CO ₃ (mg/Kg)	HCO ₃ (mg/Kg)	pH (s.u.)
ANALYSIS DATE:	01/21/02	01/22/02	01/21/02	01/21/02	01/22/02
H6438-1	80	15	0	455	8.68
H6438-2	48	15	0	520	8.66
H6438-3	112	404	0	520	8.54
H6438-4	48	172	0	455	8.28
H6438-5	64	134	0	325	8.36
H6438-6	32	43	0	455	8.48
Quality Control	1030	52.66	NR	948	6.89
True Value QC	1000	50.00	NR	1000	7.00
% Recovery	103	105	NR	94.8	98.4
Relative Percent Difference	1.0	0.6	NR	0.4	0.5

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1
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Chemist

Date

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H6438a



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

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
ATTN: LARRY GANDY
P.O. BOX 1658
ROSWELL, NM 88202
FAX TO: (505) 398-6887

Receiving Date: 01/15/02
Reporting Date: 01/22/02
Project Number: NOT GIVEN
Project Name: QTRLY REPORTS
Project Location: OCD LANDFARM

Sampling Date: 01/15/02
Sample Type: SOIL
Sample Condition: COOL AND INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/Kg)	Ca (mg/Kg)	Mg (mg/Kg)	K (mg/Kg)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /Kg)
ANALYSIS DATE:		01/22/02	01/21/02	01/21/02	01/22/02	01/22/02	01/21/02
H6438-7	10802	280	103	35	3.80	446	835
H6438-8	10902	241	90	54	4.52	471	888
H6438-9	11002	309	96	62	3.12	396	1066
H6438-10	11102	93	109	43	45	429	391
H6438-11	11202	96	96	97	5.12	413	764
H6438-12	11302	83	103	47	53	1028	320
Quality Control		NR	55	49	5.27	1489	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	110	97.2	105	105	NR
Relative Percent Difference		NR	0	6.0	0	0.3	NR

METHODS:	SM3500-Ca-D3500-Mg E	8049	120.1	310.1
----------	----------------------	------	-------	-------

	Cl ⁻ (mg/Kg)	SO ₄ (mg/Kg)	CO ₃ (mg/Kg)	HCO ₃ (mg/Kg)	pH (s.u.)
ANALYSIS DATE:	01/21/02	01/22/02	01/21/02	01/21/02	01/22/02
H6438-7	96	44	0	1018	8.73
H6438-8	48	20	0	1083	8.48
H6438-9	64	15	0	1300	8.52
H6438-10	32	262	0	477	8.43
H6438-11	48	21	0	932	8.63
H6438-12	80	257	0	390	8.27
Quality Control	1030	52.66	NR	948	6.89
True Value QC	1000	50.00	NR	1000	7.00
% Recovery	103	105	NR	94.8	98.4
Relative Percent Difference	1.0	0.6	NR	0.4	0.5

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1
----------	-------------	-------	-------	-------	-------

Chemist

Date

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H6438b



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

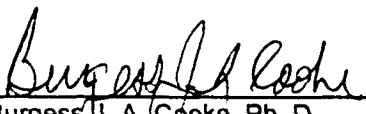
ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
ATTN: L. GANDY
P.O. BOX 1658
ROSWELL, NM 8802
FAX TO: (505) 398-6887

Receiving Date: 01/15/02
Reporting Date: 01/15/02
Project Number: NOT GIVEN
Project Name: QTRLY. REPORTS
Project Location: OCD LANDFARM

Sampling Date: 01/15/02
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		01/15/02	01/15/02	01/15/02	01/15/02	01/15/02
H6438-1	10202	51.3	<0.005	<0.005	<0.005	<0.015
H6438-2	10302	19.5	<0.005	<0.005	<0.005	<0.015
H6438-3	10402	67.4	<0.005	<0.005	<0.005	<0.015
H6438-4	10502	145	<0.005	<0.005	<0.005	<0.015
H6438-5	10602	137	<0.005	<0.005	<0.005	<0.015
H6438-6	10702	121	<0.005	<0.005	<0.005	<0.015
H6438-7	10802	136	<0.005	<0.005	<0.005	<0.015
H6438-8	10902	362	<0.005	<0.005	<0.005	<0.015
H6438-9	11002	190	<0.005	<0.005	<0.005	<0.015
H6438-10	11102	24.9	<0.005	<0.005	<0.005	<0.015
H6438-11	11202	33.4	<0.005	<0.005	<0.005	<0.015
H6438-12	11302	528	<0.005	<0.005	<0.005	<0.015
Quality Control		241	0.099	0.102	0.106	0.307
True Value QC		240	0.100	0.100	0.100	0.300
% Recovery		100	99.3	102	106	102
Relative Percent Difference		5.1	5.5	9.1	7.5	5.3

METHODS: TRPHC - EPA 600/7-79-020, 418.1; BTEX - EPA SW-846-8020


Burgess J. A. Cooke, Ph. D.

1/15/02
Date

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H6438A.XLS



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: <u>Cardinal Modeling Inc.</u>		BILL TO PO #:																							
Project Manager: <u>L. Gandy</u>		Company:																							
Address: <u>Box 1658</u>		Attn:																							
City: <u>Poswell</u> State: <u>NM</u> Zip: <u>88202</u>		Address:																							
Phone #: <u>505-398-1194</u>		City:																							
Fax #: <u>598-4887</u>		State:																							
Project #: <u>Project Owner:</u>		Zip:																							
Project Name: <u>City Reports</u>		Phone #:																							
Project Location: <u>12D Landfill</u>		Fax #:																							
FOR LAB USE ONLY		MATRIX PRES. SAMPLING																							
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME	ANALYSIS REQUEST										
46438-1	10202	C	1			X							1-5-02	8:30	418.1										
-2	10302	C	1			X								8:45	BTEx										
-3	104102	C	1			X								8:50	WQCC Metals										
-4	10502	C	1			X								8:55	major ions & cations										
-5	10602	C	1			X								9:00											
-6	10702	C	1			X								9:10											
-7	10802	C	1			X								9:15											
-8	10902	C	1			X								9:25											
-9	11002	C	1			X								9:30											
-10	11102	C	1			X																			
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Sampler Relinquished By: <u>Cardinal</u>		Date: <u>1-15-02</u>		Time: <u>1-15</u>		Received By: <u>Cardinal</u>		Date: <u>1-15-02</u>		Time: <u>1-15</u>		Sample Condition: <u>Good</u>		Checked By: <u>Cardinal</u>		REMARKS:									
Relinquished By: <u>Cardinal</u>		Date: <u>1-15-02</u>		Time: <u>1-15</u>		Received By: <u>Cardinal</u>		Date: <u>1-15-02</u>		Time: <u>1-15</u>		Sample Condition: <u>Good</u>		Checked By: <u>Cardinal</u>		REMARKS:									
Delivered By: (Circle One)		Fax Result: ☐ Yes ☐ No		Additional Fax #:																					
Sampler - UPS - Bus - Other:		Fax Result: ☐ Yes ☐ No		Additional Fax #:																					

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

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Page 2 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

February 19, 2001

Lori Wrotenberg

Director

Oil Conservation Division

CERTIFIED MAIL

RETURN RECEIPT NO. 7099-3220-0000-5051-2030

Mr. Larry Gandy
Gandy Marley, Inc.
P.O. Box 1658
Roswell, NM 88202

**RE: Approval for additional lifts
Gandy Marley, Inc., NM-01-0020
Sections 4, 5, 8, and 9, Township 11 South, Range 31 East, NMPM,
Chaves County, New Mexico**

Dear Mr. Gandy:

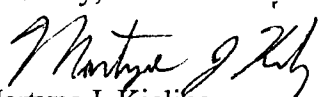
The New Mexico Oil Conservation Division (OCD) has received Gandy Marley, Inc.(GMI) request and analytical results dated December 21, 2000 for authorization to apply another lift to Cells 2 and 4. Based on the information provided, **Cells 2 and 4 are hereby approved** for the addition of a successive lift.

Note that with the addition of successive lifts GMI must continue maintenance and treatment zone monitoring at 2 to 3 feet below the original ground surface. If GMI wants to move the soils from the facility separate OCD authorization must be granted.

Please be advised that OCD approval does not relieve GMI of liability should their operation result in pollution of the ground water, surface water or the environment. In addition, OCD approval does not relieve GMI of the responsibility for compliance with other federal, state and/or local regulations.

If you have any questions please do not hesitate to contact me at (505) 476-3488. Please note our address change.

Sincerely,

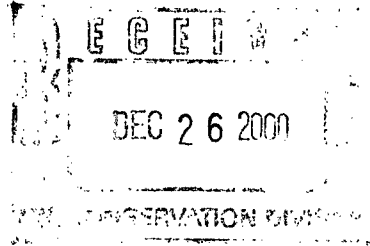

Martyne J. Kieling
Environmental Geologist

xc: OCD Hobbs Office



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December 21, 2000

Re: NM-711-1-0020 Soil Analysis

Ms. Martyne J. Kieling
Environmental Geologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Ms. Kieling:

Please find enclosed copies of quarterly analysis of the OCD land farm, and a copy of the analysis for OCD cells 2 and 4. Gandy Marley, Inc. is requesting approval to begin applying contaminated soils over the remediated cells 2 and 4.

Thank you, for your consideration in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Mike Marley".

Mike Marley
Gandy Marley, Inc.



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

ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
ATTN: L. GANDY
P.O. BOX 1658
ROSWELL, NM 88267
FAX TO: (505) 625-9706

Receiving Date: 11/29/00
Reporting Date: 12/04/00
Project Owner: L. GANDY
Project Name: REMEDIATION STANDARDS
Project Location: OCD CELL #2 & #4

Sampling Date: 11/29/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

RCRA METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	12/01/00	12/01/00	12/04/00	12/01/00	12/04/00	12/01/00	12/01/00	12/01/00	
H5383-1 CELL #2 N. REM. STD.	0.962	6.55	25.8	<0.10	19.80	6.00	0.006	0.159	
H5383-2 CELL #2 S. REM. STD.	1.55	6.00	17.0	<0.10	26.45	5.850	0.028	0.122	
H5383-3 CELL #4 N. REM. STD.	2.11	7.00	61.6	0.10	23.30	22.05	0.018	0.248	
H5383-4 CELL #4 S. REM. STD.	1.77	6.05	32.2	0.10	21.40	10.80	0.024	0.146	
Quality Control	0.052	4.763	47.88	0.951	5.117	5.019	0.00948	0.051	
True Value QC	0.050	5.000	50.00	1.000	5.000	5.000	0.01000	0.050	
% Recovery	104	95.3	95.8	95.1	102	100	94.8	102	
Relative Percent Difference	1.7	1.8	4.9	0.7	0.6	1.1	5.5	8.0	

METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2	
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740	


Chemist

12/04/2000
Date

H5383M.XLS

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ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
ATTN: L. GANDY
P.O. BOX 1658
ROSWELL, NM 88267
FAX TO: (505) 625-9706

Receiving Date: 11/29/00
Reporting Date: 12/01/00
Project Owner: L. GANDY
Project Name: REMEDIATION STANDARDS
Project Location: OCD CELL #2 & #4

Sampling Date: 11/29/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/JA

LAB NO.	SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		11/30/00	11/30/00	11/30/00	11/30/00	11/30/00
H5383-1	CELL #2 N. REM. STD.	769	<0.005	<0.005	<0.005	<0.015
H5383-2	CELL #2 S. REM. STD.	1150	<0.005	<0.005	<0.005	<0.015
H5383-3	CELL #4 N. REM. STD.	886	<0.005	<0.005	<0.005	<0.015
H5383-4	CELL #4 S. REM. STD.	578	<0.005	<0.005	<0.005	<0.015
Quality Control		239	0.090	0.104	0.091	0.280
True Value QC		240	0.100	0.100	0.100	0.300
% Recovery		99.8	90.3	104	90.9	93.2
Relative Percent Difference		1.2	7.3	0	6.2	6.3

METHODS: TRPHC - EPA 600/4-79-020, 418.1; BTEX - EPA SW-846 8260


Chemist

12/1/00
Date

H5383BT.XLS

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Page of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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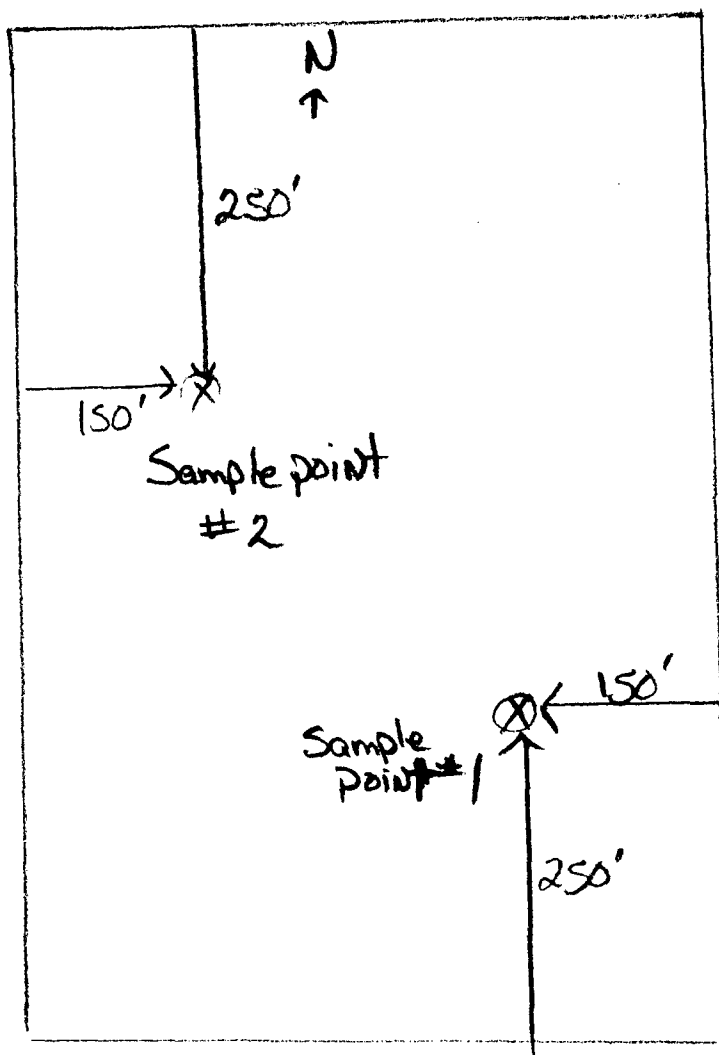
+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



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OCD Cell #4

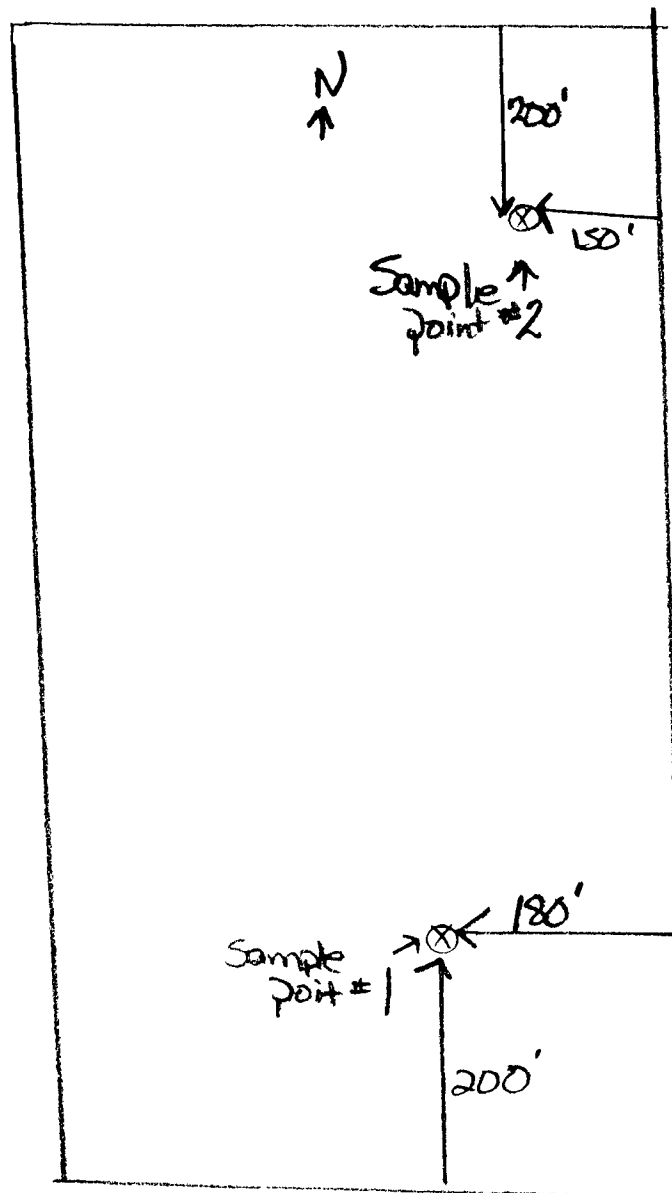




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QCD Cell #2



Approx 2 1/2 acres.



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ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
ATTN: L. GANDY
P.O. BOX 1658
ROSWELL, NM 88267
FAX TO: (505) 625-9706

Receiving Date: 11/29/00
Reporting Date: 12/04/00
Project Owner: L. GANDY
Project Name: REMEDIATION STANDARDS
Project Location: OCD CELL #2 & #4

Sampling Date: 11/29/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

RCRA METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	12/01/00	12/01/00	12/04/00	12/01/00	12/04/00	12/01/00	12/01/00	12/01/00
H5383-1 CELL #2 N. REM. STD.	0.962	6.55	25.8	<0.10	19.80	6.00	0.006	0.159
H5383-2 CELL #2 S. REM. STD.	1.55	6.00	17.0	<0.10	26.45	5.850	0.028	0.122
H5383-3 CELL #4 N. REM. STD.	2.11	7.00	61.6	0.10	23.30	22.05	0.018	0.248
H5383-4 CELL #4 S. REM. STD.	1.77	6.05	32.2	0.10	21.40	10.80	0.024	0.146
Quality Control	0.052	4.763	47.88	0.951	5.117	5.019	0.00948	0.051
True Value QC	0.050	5.000	50.00	1.000	5.000	5.000	0.01000	0.050
% Recovery	104	95.3	95.8	95.1	102	100	94.8	102
Relative Percent Difference	1.7	1.8	4.9	0.7	0.6	1.1	5.5	8.0

METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740


Chemist

12/04/2000
Date

H5383M.XLS

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ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
ATTN: L. GANDY
P.O. BOX 1658
ROSWELL, NM 88267
FAX TO: (505) 625-9706

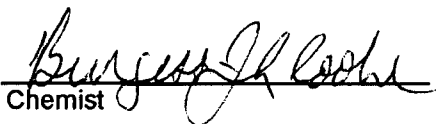
Receiving Date: 11/29/00
Reporting Date: 12/01/00
Project Owner: L. GANDY
Project Name: REMEDIATION STANDARDS
Project Location: OCD CELL #2 & #4

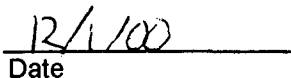
Sampling Date: 11/29/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/JA

LAB NO.	SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
---------	-----------	----------------	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:	11/30/00	11/30/00	11/30/00	11/30/00	11/30/00
H5383-1 CELL #2 N. REM. STD.	769	<0.005	<0.005	<0.005	<0.015
H5383-2 CELL #2 S. REM. STD.	1150	<0.005	<0.005	<0.005	<0.015
H5383-3 CELL #4 N. REM. STD.	886	<0.005	<0.005	<0.005	<0.015
H5383-4 CELL #4 S. REM. STD.	578	<0.005	<0.005	<0.005	<0.015
Quality Control	239	0.090	0.104	0.091	0.280
True Value QC	240	0.100	0.100	0.100	0.300
% Recovery	99.8	90.3	104	90.9	93.2
Relative Percent Difference	1.2	7.3	0	6.2	6.3

METHODS: TRPHC - EPA 600/4-79-020, 418.1; BTEX - EPA SW-846 8260


Chemist


Date

H5383BT.XLS

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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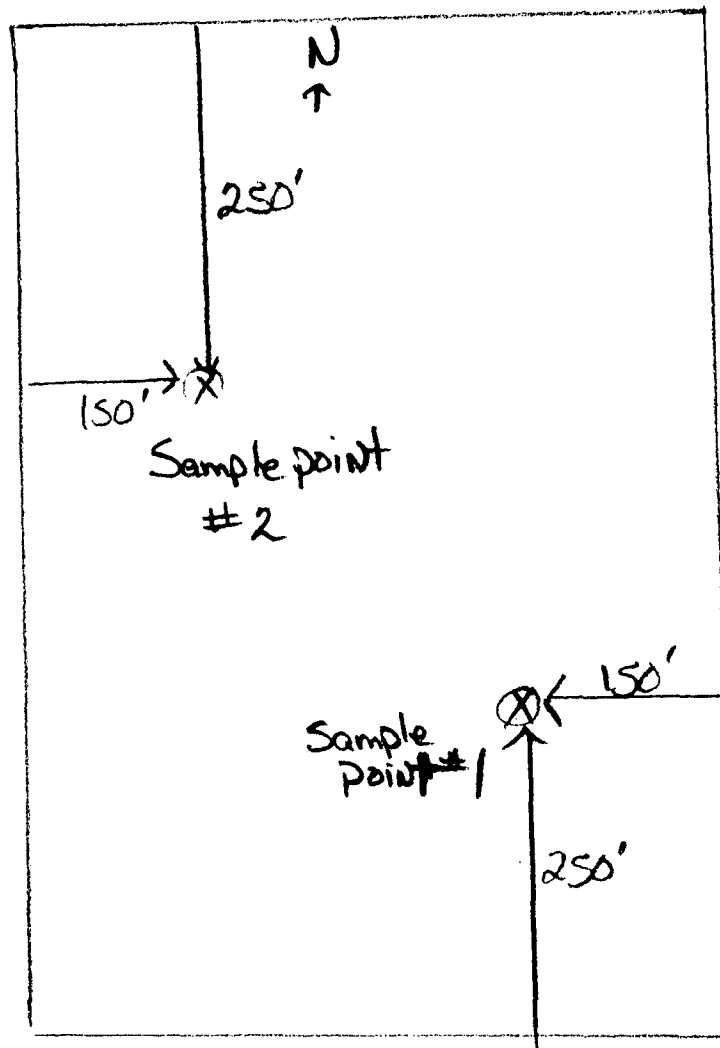
*** Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.**

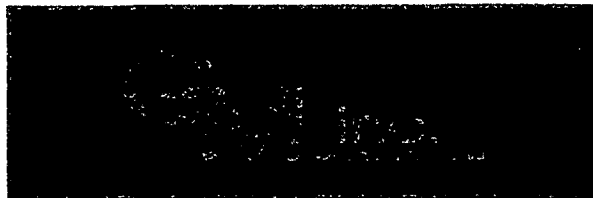


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OCD Cell #4

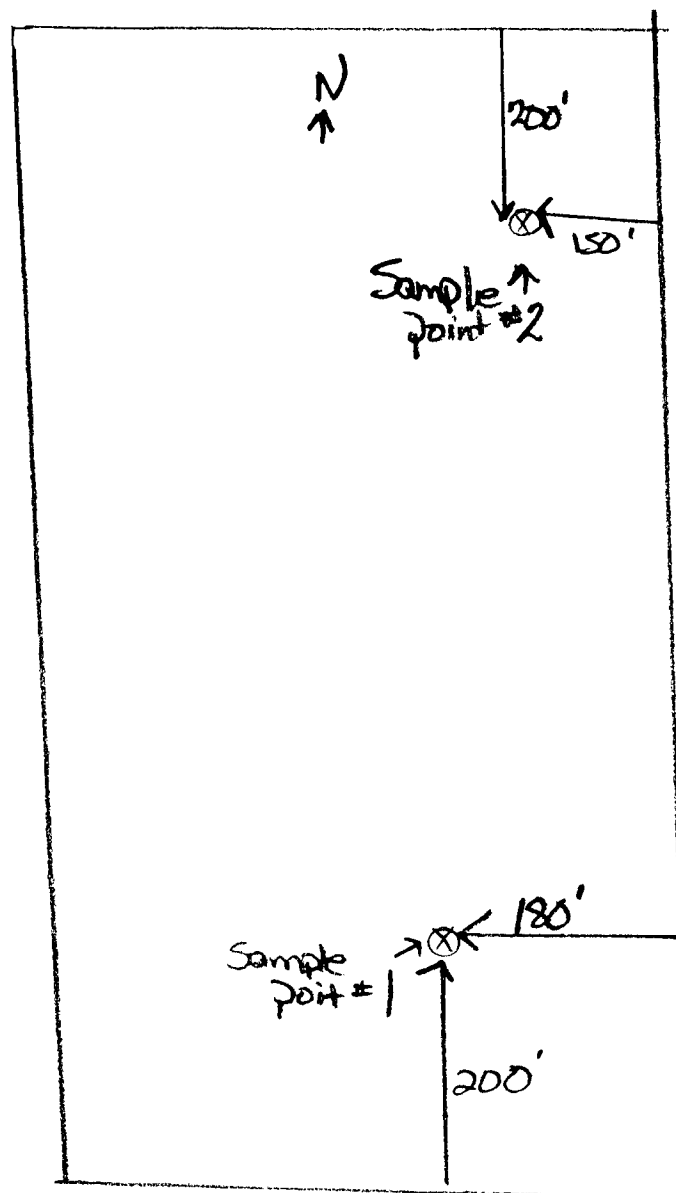




COMMERCIAL LAND FARMS

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OCD Cell # 2



Approx 2 1/2 acres.



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ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
ATTN: L. GANDY
P.O. BOX 1658
ROSWELL, NM 88267
FAX TO: (505) 625-9706

Receiving Date: 11/29/00
Reporting Date: 12/04/00
Project Owner: L. GANDY
Project Name: 4TH QTRLY BACKGROUND
Project Location: OCD LANDFARM

Sampling Date: 11/29/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH/GP

RCRA METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	12/01/00	12/01/00	12/04/00	12/01/00	12/04/00	12/01/00	12/01/00	12/01/00
H5385-1 OCD CELL #1 4TH QTR	0.938	5.55	4.25	<0.10	18.60	<0.10	0.013	0.107
H5385-2 OCD CELL #2 4TH QTR	0.435	5.70	1.50	<0.10	24.15	<0.10	0.004	0.074
H5385-3 OCD CELL #3 4TH QTR	0.822	17.65	3.75	<0.10	25.85	<0.10	0.016	0.110
H5385-4 OCD CELL #4 4TH QTR	0.923	6.00	2.85	0.20	26.35	<0.10	0.025	0.074
H5385-5 OCD CELL #5 4TH QTR	0.561	5.80	6.20	0.30	25.25	<0.10	0.027	0.066
H5385-6 OCD CELL #6 4TH QTR	1.07	5.70	7.20	0.20	22.95	1.30	0.016	0.116
H5385-7 OCD CELL #7 4TH QTR	1.12	5.40	8.35	0.55	23.70	1.30	0.007	0.078
H5385-8 OCD CELL #8 4TH QTR	0.794	5.45	5.55	0.45	26.45	<0.10	0.004	0.077
H5385-9 OCD CELL #9 4TH QTR	0.670	5.25	1.05	0.50	27.80	<0.10	0.023	0.026
H5385-10 OCD CELL #10 4TH QTR	1.12	5.55	1.16	0.55	25.20	0.55	0.024	0.077
H5385-11 OCD CELL #11 4TH QTR	1.18	4.85	9.60	0.60	30.15	2.50	0.017	0.053
H5385-12 OCD CELL #12 4TH QTR	0.783	5.15	9.30	0.75	30.10	<0.10	0.016	0.042
Quality Control	0.052	4.763	47.88	0.951	5.117	5.019	0.00948	0.051
True Value QC	0.050	5.000	50.00	1.000	5.000	5.000	0.01000	0.050
% Recovery	104	95.3	95.8	95.1	102	100	94.8	102
Relative Percent Difference	1.7	1.8	4.9	0.7	0.6	1.1	5.5	8.0

METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740

Gayle H. Potter
Chemist

12/04/2000
Date

H5385M.XLS

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ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
ATTN: L. GANDY
P.O. BOX 1658
ROSWELL, NM 88267
FAX TO: (505) 625-9706

Receiving Date: 11/29/00
Reporting Date: 12/01/00
Project Owner: L. GANDY
Project Name: 4th QTRLY. BACKGROUND
Project Location: OCD LANDFARM

Sampling Date: 11/29/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/JA

LAB NO.	SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		11/30/00	11/30/00	11/30/00	11/30/00	11/30/00
H5385-1	4th QTRLY. CELL #1	<10	<0.005	<0.005	<0.005	<0.015
H5385-2	4th QTRLY. CELL #2	<10	<0.005	<0.005	<0.005	<0.015
H5385-3	4th QTRLY. CELL #3	<10	<0.005	<0.005	<0.005	<0.015
H5385-4	4th QTRLY. CELL #4	<10	<0.005	<0.005	<0.005	<0.015
H5385-5	4th QTRLY. CELL #5	<10	<0.005	<0.005	<0.005	<0.015
H5385-6	4th QTRLY. CELL #6	<10	<0.005	<0.005	<0.005	<0.015
H5385-7	4th QTRLY. CELL #7	<10	<0.005	<0.005	<0.005	<0.015
H5385-8	4th QTRLY. CELL #8	<10	<0.005	<0.005	<0.005	<0.015
H5385-9	4th QTRLY. CELL #9	<10	<0.005	<0.005	<0.005	<0.015
H5385-10	4th QTRLY. CELL #10	<10	<0.005	<0.005	<0.005	<0.015
H5385-11	4th QTRLY. CELL #11	<10	<0.005	<0.005	<0.005	<0.015
H5385-12	4th QTRLY. CELL #12	<10	<0.005	<0.005	<0.005	<0.015
Quality Control		252	0.093	0.102	0.091	0.281
True Value QC		240	0.100	0.100	0.100	0.300
% Recovery		105	92.6	102	91.1	93.7
Relative Percent Difference		0.8	1.8	0.0	1.1	0.1

METHODS: TRPHC - EPA 600/4-79-020, 418.1; BTEX - EPA SW-846 8021b


Chemist

12/04/2000
Date

H5385BT.XLS

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: Gandy Marley Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST																							
Project Manager: LGandy		Company:																											
Address: PO Box 1658		Attn: DMC																											
City: Roswell		State: NM		Zip: 88205																									
Phone #: 605-9206		Fax #: 605-9206		Address:																									
Project #: 4th OHLY Background		City:		State:		Zip:																							
Project Location: OCD Land farm		Phone #:		Fax #:																									
Sampler Name: LGandy		FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		CRUDE OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
45385-1		1st OHLY 4th OHLY		C 1		1		+		+		+		+		+		+		+		+		+		11-29-06		10:4m	
-2		4th OHLY 1st OHLY cell #2		C 1		1		+		+		+		+		+		+		+		+		+					
-3		1st OHLY cell #3		C 1		1		+		+		+		+		+		+		+		+		+					
-4		1st OHLY cell #4		C 1		1		+		+		+		+		+		+		+		+		+					
-5		1st OHLY cell #5		C 1		1		+		+		+		+		+		+		+		+		+					
-6		1st OHLY cell #6		C 1		1		+		+		+		+		+		+		+		+		+					
-7		1st OHLY cell #7		C 1		1		+		+		+		+		+		+		+		+		+					
-8		1st OHLY cell #8		C 1		1		+		+		+		+		+		+		+		+		+					
-9		1st OHLY cell #9		C 1		1		+		+		+		+		+		+		+		+		+					
-10		1st OHLY cell #10		C 1		1		+		+		+		+		+		+		+		+		+					
REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:	
Relinquished By: LGandy		Date: 11-29-06		Time: 11:4m		Received By: DMC		Date: 11-29-06		Time: 11:4m		Sample Condition: Intact		Cool: Yes		Intact: Yes		CHECKED BY: DMC		Phone Result: Yes		Fax Result: Yes		Add'l Phone #: 		Add'l Fax #: 			
Delivered By: (Circle One)		Sampler - UPS - Bus - Other:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:	

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



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Page 2 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A

Lubbock, Texas 79424
El Paso, Texas 79922

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888•588•3443

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Larry Gandy
Gandy Marley
PO BOX 1658
Tatum, NM 88202

Report Date: 5/26/00

Project Number: 5-2000
Project Name: Background
Project Location: OCD UST

Order ID Number: A00051617

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
146246	UST Cell #1	Soil	5/11/00	-	5/16/00
146247	UST Cell #2	Soil	5/11/00	-	5/16/00
146248	UST Cell #3	Soil	5/11/00	-	5/16/00
146249	OCD Cell #1	Soil	5/11/00	-	5/16/00
146250	OCD Cell #2	Soil	5/11/00	-	5/16/00
146251	OCD Cell #3	Soil	5/11/00	-	5/16/00
146252	OCD Cell #4	Soil	5/11/00	-	5/16/00
146253	OCD Cell #5	Soil	5/11/00	-	5/16/00
146254	OCD Cell #6	Soil	5/11/00	-	5/16/00
146255	OCD Cell #7	Soil	5/11/00	-	5/16/00
146256	OCD Cell #8	Soil	5/11/00	-	5/16/00
146257	OCD Cell #9	Soil	5/11/00	-	5/16/00
146258	OCD Cell #10	Soil	5/11/00	-	5/16/00
146259	OCD Cell #11	Soil	5/11/00	-	5/16/00

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Report Date: 5/26/00
5-2000

Order ID Number: A00051617
Background

Page Number: 2 of 13
OCD UST

Analytical Results Report

Sample Number: 146246
Description: UST Cell #1

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	6.19	50	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
4-BFB	6.18	50	0.1	124	72 - 128	ML	PB02272	QC02673	
TPH (mg/Kg)									
TRPHC	53.6	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02758	10

Sample Number: 146247
Description: UST Cell #2

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	5.75	50	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
4-BFB	5.83	50	0.1	115	72 - 128	ML	PB02272	QC02673	
TPH (mg/Kg)									
TRPHC	65.3	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146248
Description: UST Cell #3

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	0.321	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	0.321	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	5.75	50	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
4-BFB	5.92	50	0.1	115	72 - 128	ML	PB02272	QC02673	

Report Date: 5/26/00
5-2000

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Background

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OCD UST

TPH (mg/Kg)									
TRPHC	30.8	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146249
Description: OCD Cell #1

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	5.78	50	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
4-BFB	5.85	50	0.1	116	72 - 128	ML	PB02272	QC02673	

TPH (mg/Kg)									
TRPHC	47.2	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146250
Description: OCD Cell #2

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	0.066	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	0.066	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	5.68	50	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
4-BFB	5.8	50	0.1	116	72 - 128	ML	PB02272	QC02673	

TPH (mg/Kg)									
TRPHC	81.9	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146251
Description: OCD Cell #3

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	5.56	50	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
4-BFB	5.67	50	0.1	111	72 - 128	ML	PB02272	QC02673	

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OCD UST

TPH (mg/Kg)									
TRPHC	19.9	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146252
Description: OCD Cell #4

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	5.86	50	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
4-BFB	5.76	50	0.1	117	72 - 128	ML	PB02272	QC02673	
TPH (mg/Kg)									
TRPHC	356	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146253
Description: OCD Cell #5

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	5.44	50	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
4-BFB	5.57	50	0.1	109	72 - 128	ML	PB02272	QC02673	
TPH (mg/Kg)									
TRPHC	<10.0	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146254
Description: OCD Cell #6

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	5.82	50	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
4-BFB	5.74	50	0.1	116	72 - 128	ML	PB02272	QC02673	

Report Date: 5/26/00
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OCD UST

TPH (mg/Kg)									
TRPHC	51.7	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146255
Description: OCD Cell #7

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
TFT	5.8	50	0.1	116	72 - 128	ML	PB02272	QC02673
4-BFB	5.94	50	0.1	119	72 - 128	ML	PB02272	QC02673

TPH (mg/Kg)									
TRPHC	104	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146256
Description: OCD Cell #8

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
TFT	5.94	50	0.1	119	72 - 128	ML	PB02272	QC02673
4-BFB	6.02	50	0.1	120	72 - 128	ML	PB02272	QC02673

TPH (mg/Kg)									
TRPHC	90.5	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02759	10

Sample Number: 146257
Description: OCD Cell #9

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
TFT	5.74	50	0.1	115	72 - 128	ML	PB02272	QC02673
4-BFB	5.94	50	0.1	119	72 - 128	ML	PB02272	QC02673

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TPH (mg/Kg)									
TRPHC	73.1	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02760	10

Sample Number: 146258
Description: OCD Cell #10

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Toluene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Ethylbenzene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Total BTEX	< 0.05	50	S 8021B	5/16/00	5/16/00	ML	PB02272	QC02673	0.001
Surrogate (mg/Kg)									
TFT	5.77	50	Spike Amount 0.1	% Rec. 115	% Rec. Limit 72 - 128	Analyst ML	Prep Batch # PB02272	QC Batch # QC02673	
4-BFB	5.94	50	Spike Amount 0.1	% Rec. 119	% Rec. Limit 72 - 128	Analyst ML	Prep Batch # PB02272	QC Batch # QC02673	
TPH (mg/Kg)									
TRPHC	46.2	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02760	10

Sample Number: 146259
Description: OCD Cell #11

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
BTEX (mg/Kg)									
Benzene	<0.05	50	S 8021B	5/22/00	5/22/00	RC	PB02360	QC02766	0.001
Toluene	<0.05	50	S 8021B	5/22/00	5/22/00	RC	PB02360	QC02766	0.001
Ethylbenzene	<0.05	50	S 8021B	5/22/00	5/22/00	RC	PB02360	QC02766	0.001
M,P,O-Xylene	<0.05	50	S 8021B	5/22/00	5/22/00	RC	PB02360	QC02766	0.001
Total BTEX	<0.05	50	S 8021B	5/22/00	5/22/00	RC	PB02360	QC02766	0.001
Surrogate (mg/Kg)									
TFT	5.15	1	Spike Amount 0.1	% Rec. 103	% Rec. Limit 72 - 128	Analyst RC	Prep Batch # PB02360	QC Batch # QC02766	
4-BFB	5.2	1	Spike Amount 0.1	% Rec. 104	% Rec. Limit 72 - 128	Analyst RC	Prep Batch # PB02360	QC Batch # QC02766	
TPH (mg/Kg)									
TRPHC	75.0	1	E 418.1	5/19/00	5/22/00	MA	PB02354	QC02760	10

Quality Control Report

Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Benzene (mg/Kg)		<0.05	0.001	5/16/00	PB02272	QC02673
Toluene (mg/Kg)		<0.05	0.001	5/16/00	PB02272	QC02673
Ethylbenzene (mg/Kg)		<0.05	0.001	5/16/00	PB02272	QC02673
M,P,O-Xylene (mg/Kg)		<0.05	0.001	5/16/00	PB02272	QC02673
Total BTEX (mg/Kg)		< 0.001	0.001	5/16/00	PB02272	QC02673
Surrogate		Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
TFT (mg/Kg)		5.35	0.1	107	72 - 128	QC02673
4-BFB (mg/Kg)		5.4	0.1	108	72 - 128	QC02673
Benzene (mg/Kg)		<0.05	0.05	5/22/00	PB02360	QC02766
Toluene (mg/Kg)		<0.05	0.05	5/22/00	PB02360	QC02766
Ethylbenzene (mg/Kg)		<0.05	0.05	5/22/00	PB02360	QC02766
M,P,O-Xylene (mg/Kg)		<0.05	0.05	5/22/00	PB02360	QC02766
Total BTEX (mg/Kg)		<0.05	0.05	5/22/00	PB02360	QC02766
Surrogate		Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
TFT (mg/Kg)		5.05	0.1	101	72 - 128	QC02766
4-BFB (mg/Kg)		5.2	0.1	104	72 - 128	QC02766
Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TRPHC (mg/Kg)		<10.0	10	5/22/00	PB02354	QC02758
TRPHC (mg/Kg)		<10.0	10	5/22/00	PB02354	QC02759
TRPHC (mg/Kg)		<10.0	10	5/22/00	PB02354	QC02760

Quality Control Report Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Benzene (mg/Kg)	0.072	1	0.1	5.78	114		80 - 120	-	QC02673
MS	Toluene (mg/Kg)	0.148	1	0.1	5.8	113		80 - 120	-	QC02673
MS	Ethylbenzene (mg/Kg)	<0.05	1	0.1	5.69	114		80 - 120	-	QC02673
MS	M,P,O-Xylene (mg/Kg)	0.064	1	0.3	17	113		80 - 120	-	QC02673

Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.	% Rec. Limit	Prep Batch #	QC Batch #
MS	TFT (mg/Kg)	5.68	1	0.1	ML	114	72 - 128	PB02272	QC02673
MS	4-BFB (mg/Kg)	5.86	1	0.1	ML	117	72 - 128	PB02272	QC02673

MSD	Benzene (mg/Kg)	0.072	1	0.1	5.8	115	0	-	0 - 20	QC02673
MSD	Toluene (mg/Kg)	0.148	1	0.1	5.96	116	3	-	0 - 20	QC02673
MSD	Ethylbenzene (mg/Kg)	<0.05	1	0.1	5.73	115	1	-	0 - 20	QC02673
MSD	M,P,O-Xylene (mg/Kg)	0.064	1	0.3	17.1	114	1	-	0 - 20	QC02673

Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.	% Rec. Limit	Prep Batch #	QC Batch #
MSD	TFT (mg/Kg)	5.98	1	0.1	ML	120	72 - 128	PB02272	QC02673
MSD	4-BFB (mg/Kg)	5.82	1	0.1	ML	116	72 - 128	PB02272	QC02673

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	TRPHC (mg/Kg)	53.6	1	833	1,020	116		70 - 130	-	QC02758
MSD	TRPHC (mg/Kg)	53.6	1	833	1,050	120	3	-	0 - 20	QC02758

Standard	Param	Sample Result	Dil.	Spike	Matrix	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
				Amount Added	Spike Result					
MS	Benzene (mg/Kg)	<0.05	50	0.1	4.85	97	11	-	0 - 20	QC02766
MS	Toluene (mg/Kg)	<0.05	50	0.1	4.98	100	13	-	0 - 20	QC02766
MS	Ethylbenzene (mg/Kg)	<0.05	50	0.1	4.94	99	15	-	0 - 20	QC02766
MS	M,P,O-Xylene (mg/Kg)	<0.05	50	0.3	14.5	97	15	-	0 - 20	QC02766
Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.		% Rec. Limit	Prep Batch #	QC Batch #
MS	TFT (mg/Kg)	4.64	50	0.1	RC	93		72 - 128	PB02360	QC02766
MS	4-BFB (mg/Kg)	4.7	50	0.1	RC	94		72 - 128	PB02360	QC02766
MSD	Benzene (mg/Kg)	<0.05	50	0.1	4.56	91	6	-	0 - 20	QC02766
MSD	Toluene (mg/Kg)	<0.05	50	0.1	4.76	95	5	-	0 - 20	QC02766
MSD	Ethylbenzene (mg/Kg)	<0.05	50	0.1	4.65	93	6	-	0 - 20	QC02766
MSD	M,P,O-Xylene (mg/Kg)	<0.05	50	0.3	13.6	91	6	-	0 - 20	QC02766

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Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.	% Rec. Limit	Prep Batch #	QC Batch #
MSD	TFT (mg/Kg)	4.59	50	0.1	RC	92	72 - 128	PB02360	QC02766
MSD	4-BFB (mg/Kg)	4.61	50	0.1	RC	92	72 - 128	PB02360	QC02766

Quality Control Report Lab Control Spikes and Duplicate Spike

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS MTBE (mg/Kg)	<0.05	1	0.1	5.26	105		80 - 120	-	QC02673
LCS Benzene (mg/Kg)	<0.05	1	0.1	5.5	110		80 - 120	-	QC02673
LCS Toluene (mg/Kg)	<0.05	1	0.1	5.5	110		80 - 120	-	QC02673
LCS Ethylbenzene (mg/Kg)	<0.05	1	0.1	5.48	110		80 - 120	-	QC02673
LCS M,P,O-Xylene (mg/Kg)	<0.05	1	0.3	16.4	109		80 - 120	-	QC02673
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCS TFT (mg/Kg)		1	0.1	5.62	112		72 - 128		QC02673
LCS 4-BFB (mg/Kg)		1	0.1	5.58	112		72 - 128		QC02673
LCSD MTBE (mg/Kg)	<0.05	1	0.1	5.18	104	2	-	0 - 20	QC02673
LCSD Benzene (mg/Kg)	<0.05	1	0.1	5.45	109	1	-	0 - 20	QC02673
LCSD Toluene (mg/Kg)	<0.05	1	0.1	5.48	110	0	-	0 - 20	QC02673
LCSD Ethylbenzene (mg/Kg)	<0.05	1	0.1	5.48	110	0	-	0 - 20	QC02673
LCSD M,P,O-Xylene (mg/Kg)	<0.05	1	0.3	16.4	109	0	-	0 - 20	QC02673
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCSD TFT (mg/Kg)		1	0.1	5.35	107		72 - 128		QC02673
LCSD 4-BFB (mg/Kg)		1	0.1	5.41	108		72 - 128		QC02673

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS MTBE (mg/Kg)	<0.05	50	0.1	5.17	103		80 - 120	-	QC02766
LCS Benzene (mg/Kg)	<0.05	50	0.1	4.98	100		80 - 120	-	QC02766
LCS Toluene (mg/Kg)	<0.05	50	0.1	5.13	103		80 - 120	-	QC02766
LCS Ethylbenzene (mg/Kg)	<0.05	50	0.1	5	100		80 - 120	-	QC02766
LCS M,P,O-Xylene (mg/Kg)	<0.05	50	0.3	14.7	98		80 - 120	-	QC02766
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCS TFT (mg/Kg)		50	0.1	4.84	97		72 - 128		QC02766
LCS 4-BFB (mg/Kg)		50	0.1	4.85	97		72 - 128		QC02766
LCSD MTBE (mg/Kg)	<0.05	50	0.1	4.6	92	12	-	0 - 20	QC02766
LCSD Benzene (mg/Kg)	<0.05	50	0.1	4.44	89	11	-	0 - 20	QC02766
LCSD Toluene (mg/Kg)	<0.05	50	0.1	4.52	90	13	-	0 - 20	QC02766
LCSD Ethylbenzene (mg/Kg)	<0.05	50	0.1	4.31	86	15	-	0 - 20	QC02766
LCSD M,P,O-Xylene (mg/Kg)	<0.05	50	0.3	12.6	84	15	-	0 - 20	QC02766
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCSD TFT (mg/Kg)		50	0.1	4.5	90		72 - 128		QC02766
LCSD 4-BFB (mg/Kg)		50	0.1	4.55	91		72 - 128		QC02766

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Param			Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	TRPHC	(mg/Kg)	<10.0	1	833	957	115		70 - 130	-	QC02758
LCSD	TRPHC	(mg/Kg)	<10.0	1	833	933	112	3	-	0 - 20	QC02758

Param			Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	TRPHC	(mg/Kg)	<10.0	1	833	957	115		70 - 130	-	QC02759
LCSD	TRPHC	(mg/Kg)	<10.0	1	250	933	112	3	-	0 - 20	QC02759

Param			Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	TRPHC	(mg/Kg)	<10.0	1	833	957	115		70 - 130	-	QC02760
LCSD	TRPHC	(mg/Kg)	<10.0	1	833	933	112	3	-	0 - 20	QC02760

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Benzene (mg/Kg)		0.1	0.108	108	80 - 120	5/16/00	QC02673
ICV	Toluene (mg/Kg)		0.1	0.11	110	80 - 120	5/16/00	QC02673
ICV	Ethylbenzene (mg/Kg)		0.1	0.109	109	80 - 120	5/16/00	QC02673
ICV	M,P,O-Xylene (mg/Kg)		0.3	0.329	110	80 - 120	5/16/00	QC02673
CCV 1	Benzene (mg/Kg)		0.1	0.088	88	80 - 120	5/16/00	QC02673
CCV 1	Toluene (mg/Kg)		0.1	0.086	86	80 - 120	5/16/00	QC02673
CCV 1	Ethylbenzene (mg/Kg)		0.1	0.088	88	80 - 120	5/16/00	QC02673
CCV 1	M,P,O-Xylene (mg/Kg)		0.3	0.263	88	80 - 120	5/16/00	QC02673

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Benzene (mg/Kg)		0.1	0.097	97	80 - 120	5/22/00	QC02766
ICV	Toluene (mg/Kg)		0.1	0.099	99	80 - 120	5/22/00	QC02766
ICV	Ethylbenzene (mg/Kg)		0.1	0.097	97	80 - 120	5/22/00	QC02766
ICV	M,P,O-Xylene (mg/Kg)		0.3	0.284	95	80 - 120	5/22/00	QC02766
CCV 1	Benzene (mg/Kg)		0.1	0.094	94	80 - 120	5/22/00	QC02766
CCV 1	Toluene (mg/Kg)		0.1	0.096	96	80 - 120	5/22/00	QC02766
CCV 1	Ethylbenzene (mg/Kg)		0.1	0.094	94	80 - 120	5/22/00	QC02766
CCV 1	M,P,O-Xylene (mg/Kg)		0.3	0.278	93	80 - 120	5/22/00	QC02766
CCV 2	Benzene (mg/Kg)		0.1	0.094	94	80 - 120	5/22/00	QC02766
CCV 2	Toluene (mg/Kg)		0.1	0.098	98	80 - 120	5/22/00	QC02766
CCV 2	Ethylbenzene (mg/Kg)		0.1	0.095	95	80 - 120	5/22/00	QC02766
CCV 2	M,P,O-Xylene (mg/Kg)		0.3	0.28	93	80 - 120	5/22/00	QC02766

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TRPHC (mg/Kg)		100	95.0	95	70 - 130	5/22/00	QC02758
CCV 1	TRPHC (mg/Kg)		100	96.0	96	70 - 130	5/22/00	QC02758

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TRPHC (mg/Kg)		100	96.0	96	70 - 130	5/22/00	QC02759
CCV 1	TRPHC (mg/Kg)		100	96.2	96	70 - 130	5/22/00	QC02759

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TRPHC (mg/Kg)		100	96.2	96	70 - 130	5/22/00	QC02760

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Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	TRPHC (mg/Kg)		100	97.9	98	70 - 130	5/22/00	QC02760

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Analytical and Quality Control Report

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Report Date: 5/26/00

Project Number: 5-2000
Project Name: Background
Project Location: OCD UST

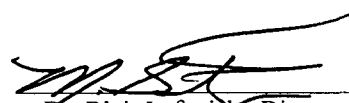
Order ID Number: A00051617

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
146246	UST Cell #1	Soil	5/11/00	-	5/16/00
146247	UST Cell #2	Soil	5/11/00	-	5/16/00
146248	UST Cell #3	Soil	5/11/00	-	5/16/00
146249	OCD Cell #1	Soil	5/11/00	-	5/16/00
146250	OCD Cell #2	Soil	5/11/00	-	5/16/00
146251	OCD Cell #3	Soil	5/11/00	-	5/16/00
146252	OCD Cell #4	Soil	5/11/00	-	5/16/00
146253	OCD Cell #5	Soil	5/11/00	-	5/16/00
146254	OCD Cell #6	Soil	5/11/00	-	5/16/00
146255	OCD Cell #7	Soil	5/11/00	-	5/16/00
146256	OCD Cell #8	Soil	5/11/00	-	5/16/00
146257	OCD Cell #9	Soil	5/11/00	-	5/16/00
146258	OCD Cell #10	Soil	5/11/00	-	5/16/00
146259	OCD Cell #11	Soil	5/11/00	-	5/16/00

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

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Dr. Blair Leftwich, Director

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Analytical Results Report

Sample Number: 146246
Description: UST Cell #1

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Barium	72	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2
Total Chromium	5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Lead	7.2	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2

Sample Number: 146247
Description: UST Cell #2

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Barium	95	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2
Total Chromium	5.4	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2

Sample Number: 146248
Description: UST Cell #3

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Barium	121	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2
Total Chromium	5.4	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2

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Sample Number: 146249

Description: OCD Cell #1

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Barium	125	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2
Total Chromium	6.9	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Lead	12	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2

Sample Number: 146250

Description: OCD Cell #2

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Barium	101	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2
Total Chromium	5.3	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2

Sample Number: 146251

Description: OCD Cell #3

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Barium	128	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2
Total Chromium	5.3	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2

Sample Number: 146252

Description: OCD Cell #4

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19

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Total Metals (mg/Kg)

Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Barium	99	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2
Total Chromium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2

Sample Number: 146253
Description: OCD Cell #5

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Barium	60	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2
Total Chromium	5.4	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Lead	8.4	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2

Sample Number: 146254
Description: OCD Cell #6

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Barium	109	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2
Total Chromium	5.4	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02823	2

Sample Number: 146255
Description: OCD Cell #7

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02410	QC02822	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Barium	94	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2
Total Chromium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2

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Sample Number: 146256
Description: OCD Cell #8

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02411	QC02821	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Barium	90	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2
Total Chromium	5.8	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Lead	7.9	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2

Sample Number: 146257
Description: OCD Cell #9

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02411	QC02821	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Barium	94	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2
Total Chromium	6.2	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2

Sample Number: 146258
Description: OCD Cell #10

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02411	QC02821	0.19
Total Metals (mg/Kg)									
Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Barium	105	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2
Total Chromium	6.4	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2

Sample Number: 146259
Description: OCD Cell #11

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Hg, Total (mg/Kg)									
Total Mercury	<0.19	1	S 7471A	5/17/00	5/18/00	JM	PB02411	QC02821	0.19

Total Metals (mg/Kg)

Total Arsenic	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Barium	110	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Cadmium	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2
Total Chromium	6.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Lead	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Selenium	<5.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	5
Total Silver	<2.0	1	S 6010B	5/17/00	5/22/00	RR	PB02269	QC02824	2

Quality Control Report

Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Mercury (mg/Kg)		<0.19	0.19	5/18/00	PB02411	QC02821
Total Mercury (mg/Kg)		<0.19	0.19	5/18/00	PB02410	QC02822

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Arsenic (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02823
Total Barium (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02823
Total Cadmium (mg/Kg)		<2.0	2	5/22/00	PB02269	QC02823
Total Chromium (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02823
Total Lead (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02823
Total Selenium (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02823
Total Silver (mg/Kg)		<2.0	2	5/22/00	PB02269	QC02823
Total Arsenic (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02824
Total Barium (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02824
Total Cadmium (mg/Kg)		<2.0	2	5/22/00	PB02269	QC02824
Total Chromium (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02824
Total Lead (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02824
Total Selenium (mg/Kg)		<5.0	5	5/22/00	PB02269	QC02824
Total Silver (mg/Kg)		<2.0	2	5/22/00	PB02269	QC02824

Quality Control Report Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Mercury (mg/Kg)	<0.19	1	2.5	2.47	99		80 - 120	-	QC02821
MSD	Total Mercury (mg/Kg)	<0.19	1	2.5	2.46	98	0	-	0 - 20	QC02821

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Mercury (mg/Kg)	<0.19	1	2.5	2.39	96		80 - 120	-	QC02822
MSD	Total Mercury (mg/Kg)	<0.19	1	2.5	2.43	97	2	-	0 - 20	QC02822

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Arsenic (mg/Kg)	<5.0	1	200	196	98		75 - 125	-	QC02823
MS	Total Barium (mg/Kg)	72	1	200	262	95		75 - 125	-	QC02823
MS	Total Cadmium (mg/Kg)	<2.0	1	200	189	95		75 - 125	-	QC02823
MS	Total Chromium (mg/Kg)	5.0	1	200	192	94		75 - 125	-	QC02823
MS	Total Lead (mg/Kg)	7.2	1	200	184	88		75 - 125	-	QC02823
MS	Total Selenium (mg/Kg)	<5.0	1	200	190	95		75 - 125	-	QC02823
MS	Total Silver (mg/Kg)	<2.0	1	20	17	85		75 - 125	-	QC02823
MSD	Total Arsenic (mg/Kg)	<5.0	1	200	194	97	1	-	0 - 20	QC02823
MSD	Total Barium (mg/Kg)	72	1	200	256	92	3	-	0 - 20	QC02823
MSD	Total Cadmium (mg/Kg)	<2.0	1	200	186	93	2	-	0 - 20	QC02823
MSD	Total Chromium (mg/Kg)	5.0	1	200	190	93	1	-	0 - 20	QC02823
MSD	Total Lead (mg/Kg)	7.2	1	200	182	87	1	-	0 - 20	QC02823
MSD	Total Selenium (mg/Kg)	<5.0	1	200	188	94	1	-	0 - 20	QC02823
MSD	Total Silver (mg/Kg)	<2.0	1	20	19	95	11	-	0 - 20	QC02823

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Arsenic (mg/Kg)	<5.0	1	200	194	97		75 - 125	-	QC02824
MS	Total Barium (mg/Kg)	94	1	200	275	91		75 - 125	-	QC02824
MS	Total Cadmium (mg/Kg)	<2.0	1	200	182	91		75 - 125	-	QC02824
MS	Total Chromium (mg/Kg)	<5.0	1	200	188	94		75 - 125	-	QC02824
MS	Total Lead (mg/Kg)	<5.0	1	200	178	89		75 - 125	-	QC02824
MS	Total Selenium (mg/Kg)	<5.0	1	200	185	93		75 - 125	-	QC02824
MS	Total Silver (mg/Kg)	<2.0	1	20	17	85		75 - 125	-	QC02824
MSD	Total Arsenic (mg/Kg)	<5.0	1	200	203	101	5	-	0 - 20	QC02824

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MSD	Total Barium (mg/Kg)	94	1	200	321	114	23	-	0 - 20	QC02824
MSD	Total Cadmium (mg/Kg)	<2.0	1	200	183	92	1	-	0 - 20	QC02824
MSD	Total Chromium (mg/Kg)	<5.0	1	200	188	94	0	-	0 - 20	QC02824
MSD	Total Lead (mg/Kg)	<5.0	1	200	178	89	0	-	0 - 20	QC02824
MSD	Total Selenium (mg/Kg)	<5.0	1	200	183	92	1	-	0 - 20	QC02824
MSD	Total Silver (mg/Kg)	<2.0	1	20	15	75	13	-	0 - 20	QC02824

Quality Control Report Lab Control Spikes and Duplicate Spike

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS Total Mercury (mg/Kg)	<0.19	1	2.5	2.38	95		80 - 120	-	QC02821
LCSD Total Mercury (mg/Kg)	<0.19	1	2.5	2.34	94	2	-	0 - 20	QC02821

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS Total Mercury (mg/Kg)	<0.19	1	2.5	2.38	95		80 - 120	-	QC02822
LCSD Total Mercury (mg/Kg)	<0.19	1	2.5	2.34	94	2	-	0 - 20	QC02822

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS Total Arsenic (mg/Kg)	<5.0	1	200	200	100		75 - 125	-	QC02823
LCS Total Barium (mg/Kg)	<5.0	1	200	200	100		75 - 125	-	QC02823
LCS Total Cadmium (mg/Kg)	<2.0	1	200	196	98		75 - 125	-	QC02823
LCS Total Chromium (mg/Kg)	<5.0	1	200	196	98		75 - 125	-	QC02823
LCS Total Lead (mg/Kg)	<5.0	1	200	190	95		75 - 125	-	QC02823
LCS Total Selenium (mg/Kg)	<5.0	1	200	193	97		75 - 125	-	QC02823
LCS Total Silver (mg/Kg)	<2.0	1	40	32	80		75 - 125	-	QC02823
LCSD Total Arsenic (mg/Kg)	<5.0	1	200	203	101	1	-	0 - 20	QC02823
LCSD Total Barium (mg/Kg)	<5.0	1	200	203	101	1	-	0 - 20	QC02823
LCSD Total Cadmium (mg/Kg)	<2.0	1	200	200	100	2	-	0 - 20	QC02823
LCSD Total Chromium (mg/Kg)	<5.0	1	200	199	100	2	-	0 - 20	QC02823
LCSD Total Lead (mg/Kg)	<5.0	1	200	195	98	3	-	0 - 20	QC02823
LCSD Total Selenium (mg/Kg)	<5.0	1	200	196	98	2	-	0 - 20	QC02823
LCSD Total Silver (mg/Kg)	<2.0	1	40	35	88	9	-	0 - 20	QC02823

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS Total Arsenic (mg/Kg)	<5.0	1	200	200	100		75 - 125	-	QC02824
LCS Total Barium (mg/Kg)	<5.0	1	200	200	100		75 - 125	-	QC02824
LCS Total Cadmium (mg/Kg)	<2.0	1	200	196	98		75 - 125	-	QC02824
LCS Total Chromium (mg/Kg)	<5.0	1	200	196	98		75 - 125	-	QC02824
LCS Total Lead (mg/Kg)	<5.0	1	200	190	95		75 - 125	-	QC02824
LCS Total Selenium (mg/Kg)	<5.0	1	200	193	97		75 - 125	-	QC02824
LCS Total Silver (mg/Kg)	<2.0	1	40	32	80		75 - 125	-	QC02824

Report Date: 5/26/00

Order ID Number: A00051617

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5-2000

Background

OCD UST

LCSD Total Arsenic (mg/Kg)	<5.0	1	200	203	101	1	-	0 - 20	QC02824
LCSD Total Barium (mg/Kg)	<5.0	1	200	203	101	1	-	0 - 20	QC02824
LCSD Total Cadmium (mg/Kg)	<2.0	1	200	200	100	2	-	0 - 20	QC02824
LCSD Total Chromium (mg/Kg)	<5.0	1	200	199	100	2	-	0 - 20	QC02824
LCSD Total Lead (mg/Kg)	<5.0	1	200	195	98	3	-	0 - 20	QC02824
LCSD Total Selenium (mg/Kg)	<5.0	1	200	196	98	2	-	0 - 20	QC02824
LCSD Total Silver (mg/Kg)	<2.0	1	40	35	88	9	-	0 - 20	QC02824

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Mercury (mg/Kg)		0.005	0.00518	104	80 - 120	5/18/00	QC02821
CCV 1	Total Mercury (mg/Kg)		0.005	0.00530	106	80 - 120	5/18/00	QC02821

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Mercury (mg/Kg)		0.005	0.00518	104	80 - 120	5/18/00	QC02822
CCV 1	Total Mercury (mg/Kg)		0.005	0.00525	105	80 - 120	5/18/00	QC02822

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Arsenic (mg/Kg)		1	1.03	103	75 - 125	5/22/00	QC02823
ICV	Total Barium (mg/Kg)		1	1.02	102	75 - 125	5/22/00	QC02823
ICV	Total Cadmium (mg/Kg)		1	1.03	103	75 - 125	5/22/00	QC02823
ICV	Total Chromium (mg/Kg)		1	1.02	102	75 - 125	5/22/00	QC02823
ICV	Total Lead (mg/Kg)		1	1.02	102	75 - 125	5/22/00	QC02823
ICV	Total Selenium (mg/Kg)		1	1.00	100	75 - 125	5/22/00	QC02823
ICV	Total Silver (mg/Kg)		0.2	0.202	101	75 - 125	5/22/00	QC02823
CCV 1	Total Arsenic (mg/Kg)		1	0.99	99	75 - 125	5/22/00	QC02823
CCV 1	Total Barium (mg/Kg)		1	1.01	101	75 - 125	5/22/00	QC02823
CCV 1	Total Cadmium (mg/Kg)		1	1.01	101	75 - 125	5/22/00	QC02823
CCV 1	Total Chromium (mg/Kg)		1	1.01	101	75 - 125	5/22/00	QC02823
CCV 1	Total Lead (mg/Kg)		1	1.01	101	75 - 125	5/22/00	QC02823
CCV 1	Total Selenium (mg/Kg)		1	1.00	100	75 - 125	5/22/00	QC02823
CCV 1	Total Silver (mg/Kg)		0.2	0.200	100	75 - 125	5/22/00	QC02823

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Arsenic (mg/Kg)		1	0.99	99	75 - 125	5/22/00	QC02824
ICV	Total Barium (mg/Kg)		1	1.01	101	75 - 125	5/22/00	QC02824
ICV	Total Cadmium (mg/Kg)		1	1.01	101	75 - 125	5/22/00	QC02824
ICV	Total Chromium (mg/Kg)		1	1.01	101	75 - 125	5/22/00	QC02824
ICV	Total Lead (mg/Kg)		1	1.01	101	75 - 125	5/22/00	QC02824
ICV	Total Selenium (mg/Kg)		1	1.00	100	75 - 125	5/22/00	QC02824
ICV	Total Silver (mg/Kg)		0.2	0.200	100	75 - 125	5/22/00	QC02824
CCV 1	Total Arsenic (mg/Kg)		1	0.99	99	75 - 125	5/22/00	QC02824
CCV 1	Total Barium (mg/Kg)		1	1.00	100	75 - 125	5/22/00	QC02824
CCV 1	Total Cadmium (mg/Kg)		1	1.00	100	75 - 125	5/22/00	QC02824
CCV 1	Total Chromium (mg/Kg)		1	0.99	99	75 - 125	5/22/00	QC02824

Report Date: 5/26/00
5-2000

Order ID Number: A00051617
Background

Page Number: 12 of 12
OCD UST

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Total Lead (mg/Kg)		1	1.00	100	75 - 125	5/22/00	QC02824
CCV 1	Total Selenium (mg/Kg)		1	0.99	99	75 - 125	5/22/00	QC02824
CCV 1	Total Silver (mg/Kg)		0.2	0.198	99	75 - 125	5/22/00	QC02824

146246-57

Page ____ of ____

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Trace Analysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name:

Gandy Marley Inc

Phone #:

505-625-9206

Address:

(Street, City, Zip)
Box 1458

Fax #:

Russell NM 88202

Contact Person:

625-9706

Invoice to:
(If different from above)

Project #:

5-2000

Project Name:

Y444 back ground

Project Location:

OCD1 UST

Sampler Signature:

Lam Conrad

LAB #
(LAB USE ONLY)

FIELD CODE

CONTAINERS
Volume/AmountWATER
SOIL
AIR
SLUDGE

MATRIX

PRESERVATIVE
METHODHCL
HNO3
ICE
NONE

DATE

TIME

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1 TX1005

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC-MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Turn Around Time if different from standard

Hold

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

A000 516 17

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX	PRESERVATIVE METHOD	SAMPLING	DATE	TIME
146246	UST Cell #1	1	402	X			5-11	5pm
47	UST Cell #2	1	402	X			5-11	5pm
48	UST Cell #3	1	402	X			5-11	5pm
49	OCD Cell #1	1	402	X			5-11	5pm
50	"	1	"	X			"	"
51	"	1	"	X			"	"
52	"	1	"	X			"	"
53	"	1	"	X			"	"
54	"	1	"	X			"	"
55	"	1	"	X			"	"
56	"	1	"	X			"	"

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

Relinquished by: Lam Conrad Date: 5-16-00 Time: 5pm

Received by: Date: Time:

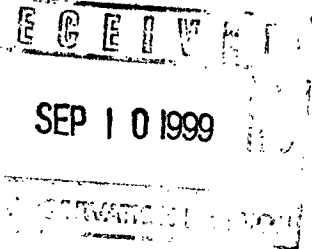
Relinquished by: Date: Time: Received at Laboratory by: Date: Time:

Relinquished by: Cell Mean Date: 5-16-00 Time: 12:45 pm

LAB USE ONLY

REMARKS:

5/30/00



COMMERCIAL LAND FARMS

*A New Mexico Enterprise
Serving New Mexico's Needs*

September 9, 1999

Re: NM-711-I-0020 Quarterly Soil Analysis

Ms. Martyne J. Kieling
Environmental Geologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Ms. Kieling:

Please find enclosed a copy of Gandy Marley, Inc. land farm quarterly background analysis reports.

This report is respectfully submitted as required.

Sincerely,

Mike Marley
Gandy Marley, Inc.



Hall Environmental Analysis Laboratory

Client: Gandy Marley Inc.
Project: Qtrly Background
Project Manager: Larry Gandy
Project Number: -

Date Collected: 7/12/99
Date Received: 7/27/99
Sample Matrix: Soil
Date Extracted: 7/27/99

EPA Method - 8021

Units: PPM mg/kg

HEAL LAB ID	Sample ID	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	BFB % Recovery	Dilution Factor	Date Analyzed
9907123-1	315 OCD #1	ND	ND	ND	ND	ND	97	1	7/28/99
9907123-2	280 OCD #2	ND	ND	ND	ND	ND	95	1	7/28/99
9907123-3	307 OCD #3	ND	ND	ND	ND	ND	92	1	7/28/99
9907123-4	308 OCD #4	ND	ND	ND	ND	ND	95	1	7/28/99
9907123-5	305 OCD #5	ND	ND	ND	ND	ND	95	1	7/29/99
9907123-6	309 OCD #6	ND	ND	ND	ND	ND	95	1	7/29/99
9907123-7	310 OCD #7	ND	ND	ND	ND	ND	94	1	7/29/99
9907123-8	269 OCD #8	ND	ND	ND	ND	ND	92	1	7/29/99
9907123-9	277 OCD #9	ND	ND	ND	ND	ND	93	1	7/29/99
9907123-10	UST Cell #1	ND	ND	ND	ND	ND	95	1	7/29/99
Extraction Blank	-	ND	ND	ND	ND	ND	93	1	7/28/99

MRL	0.1	0.05	0.05	0.05	0.05
-----	-----	------	------	------	------

TRACE ANALYSIS, INC.

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 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Gandy Marley
 Attention Larry Gandy
 PO BOX 1658
 Tatum NM 88202

Date: Apr 05, 1999

Project: GMI 42

Proj Name: Qtrly Background

Proj Loc: Landfarm

Lab Receiving # : 99040507

Date Rec: 4/5/99

Sampling Date: 4/1/99

Sample Condition: See note on COC

Sample Received By: VW

TA#	Field Code	MATRIX	TRPHC (mg/Kg)
122197	UST Cell #1	Soil	<10.0
122198	OCD Cell #1	Soil	<10.0
122199	OCD Cell #2	Soil	<10.0
122200	OCD Cell #3	Soil	<10.0
122201	OCD Cell #4	Soil	<10.0
122202	OCD Cell #5	Soil	<10.0
122203	OCD Cell #6	Soil	<10.0
122204	OCD Cell #7	Soil	<10.0
122205	OCD Cell #8	Soil	<10.0
122206	OCD Cell #9	Soil	<10.0
Method Blank			<10.0
Reporting Limit			10.00
LCS			228
LCSD			235
MS			216
MSD			218
ICV			96.9
CCV	1		95.1
CCV	2		94.4

RPD 1
 % Instrument Accuracy 95
 % Extraction Accuracy 86

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
TRPHC	E 3550B	4/5/99	E 418.1	4/5/99	MF	100	250

Director, Dr. Blair Leftwich

Date

TRACE ANALYSIS, INC.

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El Paso, Texas 79922 888•588•3443
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FAX 915•585•4944

ANALYTICAL RESULTS FOR

Gandy Marley
Attention Larry Gandy
PO BOX 1658
Tatum NM 88202

Lab Receiving # : 99040507
Date Rec: 4/5/99
Sampling Date: 4/1/99
Sample Condition: See note on COC
Sample Received By: VW

Date: Apr 08, 1999
Project: GMI 42
Proj Name: Qtrly Background
Proj Loc: Landfarm

TA#	Field Code	MATRIX	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL- BENZENE mg/Kg	M, P, O XYLENE mg/Kg	TOTAL BTX mg/Kg
122197	UST Cell #1	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
122198	OCD Cell #1	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
122199	OCD Cell #2	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
122200	OCD Cell #3	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
122201	OCD Cell #4	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
Method Blank							
Reporting Limit							
LCS			0.050	0.050	0.050	0.050	
LCSD			0.106	0.106	0.106	0.308	
ICV			0.104	0.104	0.103	0.301	
CCV 1			0.091	0.091	0.093	0.267	
CV Average			0.097	0.097	0.098	0.282	
			0.094	0.094	0.095	0.274	

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: mg/Kg
BTX	5035	4/7/99	S 8021B	4/7/99	SO	5.000 ea	5.000 ea

Director, Dr. Blair Leftwich

Date

4-8-99

TRACE ANALYSIS, INC.

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 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Gandy Marley
 Attention Larry Gandy
 PO BOX 1658
 Tatum NM 88202

Date: Apr 08, 1999
 Project: GMI 42
 Proj Name: Qtrly Background
 Proj Loc: Landfarm

Lab Receiving #: 99040507
 Date Rec: 4/5/99
 Sampling Date: 4/1/99
 Sample Condition: See note on COC
 Sample Received By: VW

TA#	Field Code	MATRIX	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL- BENZENE mg/Kg	M, P, O XYLENE mg/Kg	TOTAL BTX mg/Kg
122202	OCD Cell #5	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
122203	OCD Cell #6	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
122204	OCD Cell #7	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
122205	OCD Cell #8	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
122206	OCD Cell #9	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
Method Blank							
Reporting Limit							
LCS			0.050	0.050	0.050	0.050	
LCSD			0.106	0.106	0.106	0.308	
ICV			0.104	0.104	0.103	0.301	
CCV 1			0.091	0.091	0.093	0.267	
CV Average			0.097	0.097	0.098	0.282	
			0.094	0.094	0.095	0.274	

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: mg/Kg
BTEX	5035	4/7/99	S 8021B	4/7/99	SO	5.000 ea	5.000 ea

BL

Director, Dr. Blair Leftwich

4-8-99

Date

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888-588-3443 915-585-3443 FAX 915-585-4944

April 9, 1999

Receiving Date: 04/05/99

Sample Type: Soil

Project #: GMI 42

Pro Name: Qtrly Background

ANALYTICAL RESULTS FOR

GANDY MARLEY INC.

Attention: Larry Gandy

P. O. Box 1658

Roswell, NM 88202

Sampling Date: 04/01/99

Sample Condition: I & C

Sample Received by: VW

Project Loc: Land Farm

TA#	FIELD CODE	TOTAL As (mg/kg)	TOTAL Se (mg/kg)	TOTAL Cd (mg/kg)	TOTAL Cr (mg/kg)	TOTAL Pb (mg/kg)	TOTAL Ag (mg/kg)	TOTAL Ba (mg/kg)	TOTAL Hg (mg/kg)
-----	------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------

T122202	OCD Cell #5	<5.0	<5.0	<2.0	2.5	<5.0	<2.0	15	<0.25
T122203	OCD Cell #6	<5.0	<5.0	<2.0	2.8	<5.0	<2.0	25	<0.25
T122204	OCD Cell #7	<5.0	<5.0	<2.0	2.2	<5.0	<2.0	11	<0.25
T122205	OCD Cell #8	<5.0	<5.0	<2.0	2.5	<5.0	<2.0	17	<0.25
T122206	OCD Cell #9	<5.0	<5.0	<2.0	2.2	<5.0	<2.0	13	<0.25

ICV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	4.8
CCV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	4.5

REPORTING LIMIT		5.0	5.0	2.0	2.0	5.0	2.0	5.0	0.25
-----------------	--	-----	-----	-----	-----	-----	-----	-----	------

RPD	2	2	0	1	1	0	0	0	5
% Extraction Accuracy	103	100	101	104	103	97	107	107	90
% Instrument Accuracy	100	100	100	100	100	100	100	100	92

PREP DATE	04/05/99	04/05/99	04/05/99	04/05/99	04/05/99	04/05/99	04/05/99	04/05/99	04/07/99
ANALYSIS DATE	04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	04/08/99

METHODS: EPA SW-846 6010B, 3050B

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METAL SPIKE: As, Se, Cd, Cr, Pb, Ba: 200 mg/kg Ag: 10 mg/kg Hg: 2.5 mg/kg

TOTAL METAL CV: As, Se, Cd, Cr, Pb, Ba: 1.0 mg/L Ag: 0.20 mg/L Hg: 5.0 mg/L

Director, Dr. Blair Leftwich

Date

4-9-99

TRACE ANALYSIS, INC.

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April 9, 1999
 Receiving Date: 04/05/99
 Sample Type: Soil
 Project #: GMI 42
 Pro Name: Qtrly Background

Sampling Date: 04/01/99
 Sample Condition: I & C
 Sample Received by: VW
 Project Loc: Land Farm

ANALYTICAL RESULTS FOR
 GANDY MARLEY INC.
 Attention: Larry Gandy
 P. O. Box 1658
 Roswell, NM 88202

TA#	FIELD CODE	TOTAL As (mg/kg)	TOTAL Se (mg/kg)	TOTAL Cd (mg/kg)	TOTAL Cr (mg/kg)	TOTAL Pb (mg/kg)	TOTAL Ag (mg/kg)	TOTAL Ba (mg/kg)	TOTAL Hg (mg/kg)
T122197	UST Cell #1	<5.0	<5.0	<2.0	3.6	<5.0	<2.0	12	<0.25
T122198	OCD Cell #1	<5.0	<5.0	<2.0	3.1	<5.0	<2.0	14	<0.25
T122199	OCD Cell #2	<5.0	<5.0	<2.0	2.5	<5.0	<2.0	41	<0.25
T122200	OCD Cell #3	<5.0	<5.0	<2.0	3.0	<5.0	<2.0	13	<0.25
T122201	OCD Cell #4	<5.0	<5.0	<2.0	2.8	<5.0	<2.0	13	<0.25
ICV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	4.8
CCV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	4.5
REPORTING LIMIT		5.0	5.0	2.0	2.0	5.0	2.0	5.0	0.25
RPD		2	2	0	1	1	0	0	5
% Extraction Accuracy		103	100	101	104	103	97	107	90
% Instrument Accuracy		100	100	100	100	100	100	100	92
PREP DATE		04/05/99	04/05/99	04/05/99	04/05/99	04/05/99	04/05/99	04/05/99	04/07/99
ANALYSIS DATE		04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	04/08/99

METHODS: EPA SW-846 6010B, 3050B
 CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP
 TOTAL METAL SPIKE: As, Se, Cd, Cr, Pb, Ba: 200 mg/kg Ag: 10 mg/kg Hg: 2.5 mg/kg
 TOTAL METAL CV: As, Se, Cd, Cr, Pb, Ba: 1.0 mg/L Ag: 0.20 mg/L Hg: 5.0 mg/L

4-9-99

Director, Dr. Blair Leftwich

Date



COMMERCIAL LAND FARMS

*A New Mexico Enterprise
Serving New Mexico's Needs*

RECEIVED

SEP 23 1998

September 21, 1998

Re: NM-711-1-0020 Quarterly Soil Analysis

Ms. Martyne J. Kieling
Environmental Geologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Ms. Kieling:

Please find enclosed a copy of Gandy Marley, Inc. land farm quarterly sample analysis reports for the 2ND quarter 1998.

This report is respectfully submitted as required.

Sincerely,

A handwritten signature in cursive script that reads "Mike Marley".

Mike Marley
Gandy Marley, Inc.

myh
10-6-98

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Gandy Marley
 Attention Larry Gandy
 PO BOX 1658

Date: Aug 05, 1998

Date Rec: 7/31/98

Project: GM 7-98

Proj Name: Quarterly Background

Proj Loc: UST & OCD Landfarms

Tatum

NM 88202

Lab Receiving # : 9807000553

Sampling Date: 7/22/98

Sample Condition: Intact and Cool

Sample Received By: VW

TA#	Field Code	MATRIX	C6-C10 (mg/Kg)	>C10-C28 (mg/Kg)	C6-C28 (mg/Kg)
103775	UST Cell #1	Soil	<50	<50	<50
103776	OCD Cell #1	Soil	<50	<50	<50
103777	OCD Cell #2	Soil	<50	<50	<50
103778	OCD Cell #3	Soil	<50	<50	<50
103779	OCD Cell #4	Soil	<50	<50	<50
103780	OCD Cell #5	Soil	<50	<50	<50
103781	OCD Cell #6	Soil	<50	<50	<50
103782	OCD Cell #7	Soil	<50	<50	<50
103783	OCD Cell #8	Soil	<50	<50	<50
Method Blank			<50	<50	<50
Reporting Limit			50	50	50
QC			284	265	549

RPD	6	6	6
% Extraction Accuracy	97	74	86
% Instrument Accuracy	114	106	110

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
TX1005	N/A	7/31/98	TX1005	7/31/98	MS	250 each	250 each

Director, Dr. Blair Leftwich

05446-98
 Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944

E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Gandy Marley

Attention Larry Gandy

PO BOX 1658

Tatum

Date: Aug 06, 1998

Date Rec: 7/31/98

Project: GM 7-98

Proj Name: Quarterly Background

Proj Loc: UST & OCD Landfarms

NM 88202

Lab Receiving # : 9807000553

Sampling Date: 7/22/98

Sample Condition: Intact and Cool

Sample Received By: VW

TA# Field Code

TA#	Field Code	MATRIX	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M, P, O XYLENE (mg/Kg)	TOTAL BTX (mg/Kg)
103775	UST Cell #1	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
103776	OCD Cell #1	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
103777	OCD Cell #2	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
103778	OCD Cell #3	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
103779	OCD Cell #4	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
103780	OCD Cell #5	Soil	<0.050	<0.050	<0.050	<0.050	<0.050

Method Blank

Reporting Limit

QC

RPD

% Extraction Accuracy

% Instrument Accuracy

4	4	4	4
99	99	100	98
98	98	100	98

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
BTEX	EPA 5030	8/5/98	EPA 8021B	8/5/98	JG	0.100 ea	5 ea

Director, Dr. Blair Leftwich

Date

06 AUG 98

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888-588-3443 915-585-3443 FAX 915-585-4944

E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Gandy Marley

Attention Larry Gandy

PO BOX 1658

Tatum

Date: Aug 05, 1998

Date Rec: 7/31/98

Project: GM 7-98

Proj Name: Quarterly Background

Proj Loc: UST & OCD Landfarms

NM 88202

Lab Receiving # : 9807000553

Sampling Date: 7/22/98

Sample Condition: Intact and Cool

Sample Received By: VW

TA# Field Code

MATRIX

BENZENE
(mg/Kg)

TOLUENE
(mg/Kg)

ETHYL-
BENZENE
(mg/Kg)

M, P, O
XYLENE
(mg/Kg)

TOTAL
BTX
(mg/Kg)

103781 OCD Cell #6

103782 OCD Cell #7

103783 OCD Cell #8

Method Blank

Reporting Limit

QC

Soil

Soil

Soil

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

<0.050

RPD

% Extraction Accuracy

% Instrument Accuracy

2

3

3

3

91

91

89

99

90

89

89

98

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
BTEX	EPA 5030	8/3/98	EPA 8021B	8/3/98	JG	0.100 ea	5 ea

Director, Dr. Blair Leftwich

Date

05 AUG 98

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

553

Company Name:

Gandy Marley Inc.

SCS 398 4966

Address:

Box 1658 Russell NM 88202

Fax #:

505-398-6287

Contact Person:

Larry Gordy

Invoice to:
(If different)

Project #: CM 7-98

Project Name:

Project Name: Quarterly Background

Project Location:

UST & CCD Landforms

Sampler Signature:

[illegible]

Relinquished by:

Date: _____ Time: _____

Received by:

Date: _____ Time: _____

10

REMARKS:

LAB USE ONLY

Relinquished by:

Date: _____ Time: _____

Received by:

Date: _____ Time: _____

Relinquished by:

Date: _____ Time: _____

Received at

Date: _____ Time: _____

Intact

 $\mathbb{Z}$

Headspace	Y / N
1	Y
2	Y
3	Y
4	Y
5	Y
6	Y
7	Y
8	Y
9	Y
10	Y
11	Y
12	Y
13	Y
14	Y
15	Y
16	Y
17	Y
18	Y
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69	Y
70	Y
71	Y
72	Y
73	Y
74	Y
75	Y
76	Y
77	Y
78	Y
79	Y
80	Y
81	Y
82	Y
83	Y
84	Y
85	Y
86	Y
87	Y
88	Y
89	Y
90	Y
91	Y
92	Y
93	Y
94	Y
95	Y
96	Y
97	Y
98	Y
99	Y
100	Y

ace
Y / N

Temp 28 °

78

Log-in Review

Review and

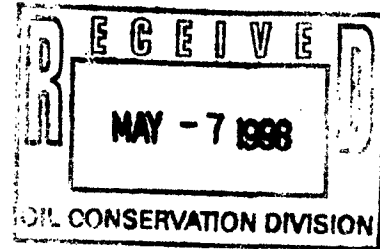
Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C

Carrier # 418 12 791 651 031 001 533



COMMERCIAL LAND FARMS

*A New Mexico Enterprise
Serving New Mexico's Needs*



May 5, 1998

Re: NM-711-1-0020 Quarterly Soil Analysis

Ms. Martyne J. Kieling
Environmental Geologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Ms. Kieling:

Please find enclosed a copy of Gandy Marley, Inc. land farm quarterly sample analysis reports for the 4th quarter, 1997 and first quarter 1998.

This report is respectfully submitted as required.

Sincerely,

Mike Marley
Gandy Marley, Inc.

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424
ANALYTICAL RESULTS FOR

806•794•1296 FAX 806•794•1298

Gandy Marley
Attention Larry Gandy
PO BOX 1658
ROSWELL

Date: Feb 24, 1998
Date Rec: 2/18/98
Project: GM0298
Proj Name: Qtrly Background
Proj Loc: OCD Landfarm

Lab Receiving #: 9802000324
Sampling Date: 2/17/98
Sample Condition: Intact and Cool
Sample Received By: VW

NM 88202

TA#	Field Code	MATRIX	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M, P, O XYLENE (mg/Kg)	TOTAL BTX mg/Kg)
T 91359	OCD Cell #1	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
T 91360	OCD Cell #2	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
T 91361	OCD Cell #3	Soil	<0.050	<0.050	<0.050	<0.050	<0.050
Method Blank							
Reporting Limit							
QC							
			0.05	0.05	0.05	0.05	
			0.097	0.096	0.095	0.288	

RPD	4	4	5	5
% Extraction Accuracy	97	97	97	99
% Instrument Accuracy	97	96	95	96

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: mg/Kg)
BTX	EPA 5030	2/23/98	EPA 8021B	2/23/98	JG	0.100 ea	5 ea

BB

Director, Dr. Blair Leitch

2-24-98

Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR

Gandy Marley
Attention Larry Gandy
PO BOX 1658
ROSWELL NM 88202

Date: Feb 20, 1998

Date Rec: 2/18/98

Project: GM0298

Proj Name: Qtrly Background

Proj Loc: OCD Landfarm

Lab Receiving # : 9802000324

Sampling Date: 2/17/98

Sample Condition: Intact and Cool

Sample Received By: VW

TA#	Field Code	MATRIX	TRPHC (mg/Kg)
T 91359	OCD Cell #1	Soil	<10.0
T 91360	OCD Cell #2	Soil	<10.0
T 91361	OCD Cell #3	Soil	<10.0
Method Blank			<10.0
Reporting Limit			10
QC			105

RPD	2
% Extraction Accuracy	110
% Instrument Accuracy	105

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
TRPHC	EPA 3550	2/18/98	EPA 418.1	2/20/98	MS	100	250

Director, Dr. Blair Leftwich

Date

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

LAB Order ID # 21

Phone #:

505-398-4960

Fax #:

Box ~~2~~ 1658 Kossell nm8262 SOS-398-6887

Invoice to:

(If different from above)

Project Name:

Project Location:

~~Back ground~~ 91M0298
OCD Landfarm

Sampler Signature:

Love you

MTBE	8020/602
BTEX	8020/602
TPH	418.1
PAH	8270
Total Metals	Ag As Ba Cd Cr Pb Hg Se
TCLP Metals	Ag As Ba Cd Cr Pb Hg Se
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol.	8240/8260/624
GC/MS Semi. Vol.	8270/625
PCB's	8080/608
Pest.	8080/608
BOD, TSS, PH	
Turn Around Time if different from standard	
Hold	

REMARKS:

Relinquish ~~ed~~ by

Date: 2-17-98

Date: _____ Time: _____

Received by:

Date: _____ Time: _____

Intact Y N

Relinquished by

Date: _____
Time: _____

Reviewed at Laboratory by:

Date: _____ Time: _____

Temp --- *d* --- *d*

Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C O C.

Carrier #	245	9019019081
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TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

ANALYTICAL RESULTS FOR

Date: Nov 24, 1997
 Date Rec: 11/21/97
 Project: GM 11-13
 Proj Name: 3rd Quarterly Background
 Proj Loc: OCD & UST Farms

Gandy Marley
 Attention Larry Gandy
 PO BOX 1658
 ROSWELL NM 88202

Lab Receiving # : 9711000311
 Sampling Date: 11/13/97
 Sample Condition: Intact and Cool
 Sample Received By: NG

TA#	Field Code	MATRIX	TRPHC (mg/Kg)	MTBE (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M, P, O XYLENE (mg/Kg)	TOTAL BTX (mg/Kg)
T85736	OCD Cell #1	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T85737	OCD Cell #2	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T85738	OCD Cell #3	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T85739	UST Cell #1	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Method Blank			<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Reporting Limit			10	0.05	0.05	0.05	0.05	0.05	0.05
QC			100	0.104	0.103	0.106	0.107	0.312	

RPD
 % Extraction Accuracy 9 2 2 4 3 5
 % Instrument Accuracy 122 104 103 106 108 103
 100 104 103 106 107 104

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
BTEX	EPA 5030	11/24/97	EPA 8020	11/21/97	AG	0.100 ea	5 ea
TRPHC	EPA 3550	11/21/97	EPA 418.1	11/23/97	MS	100	250

Director, Dr. Blair Leftwich

Date

13

11-24-97

6701 Aberdeen Avenue Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: 553 318 4966

Very kindly

751

ANALYSIS REQUEST

**SPECIAL
HANDLING**

any Name & Address:

Project Name :

GM 11-15

Liberty Bell

Sampler Signature:

UG-151-Form

1

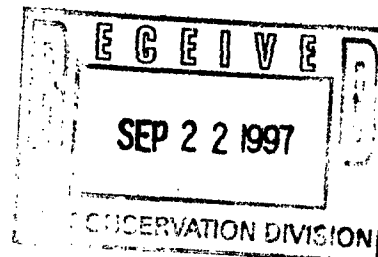
[illegible]

35 AB



COMMERCIAL LAND FARMS

*A New Mexico Enterprise
Serving New Mexico's Needs*



September 18, 1997

Re: NM-711-1-0020 Quarterly Soil Analysis

Ms. Martyne J. Kieling
Environmental Geologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Ms. Kieling:

Please find enclosed a copy of Gandy Marley, Inc. land farm quarterly sample analysis reports for the second quarter, 1997.

This report is respectfully submitted as required.

Sincerely, .

A handwritten signature in cursive script that reads "Mike Marley".

Mike Marley
Gandy Marley, Inc.

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

ANALYTICAL RESULTS FOR

Gandy Marley

Attention Larry Gandy

PO BOX 1658

ROSWELL

NM 88202

Date: Aug 13, 1997

Date Rec: 8/7/97

Project: N/A

Proj Name: Quarterly Background

Proj Loc: Landfarms

Lab Receiving # : 9708000134

Sampling Date: 8/4/97

Sample Condition: Intact and Cool

Sample Received By: JH

TA#	Field Code	MATRIX	TRPHC (mg/Kg)	MTBE (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M, P, O XYLENE (mg/Kg)	TOTAL BTX (mg/Kg)
T79167	OCD Cell #1	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T79168	OCD Cell #2	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T79169	OCD Cell #3	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T79170	UST Cell #1	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
QC			104	0.104	0.099	0.099	0.100	0.307	

RPD			10	4	3	2	1	1	
% Extraction Accuracy			104	114	111	110	112	115	
% Instrument Accuracy			104	104	99	99	100	102	

Reporting Limit:

10 0.05 0.05 0.05 0.05 0.05

0.05

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
MTBE/BTEX	EPA 5030	8/11/97	EPA 8020	8/11/97	AG	0.100 ea	5 ea
TRPHC	EPA 3550	8/8/97	EPA 418.1	8/11/97	MS	100	250

Director, Dr. Blair Leftwich

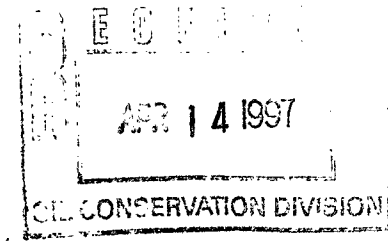
Date

8-13-97



COMMERCIAL LAND FARMS

*A New Mexico Enterprise
Serving New Mexico's Needs*



April 11, 1997

Re: NM-711-1-0020 Quarterly Soil Analysis

Mr. Roger Anderson
Bureau Chief
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Mr. Anderson,

Please find enclosed a copy of Gandy Marley, Inc. land farm quarterly sample analysis reports for the fourth quarter of 1996, and the first quarter of 1997.

This report is respectfully submitted as required.

Sincerely,

Mike Marley
Gandy Marley, Inc.

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

ANALYTICAL RESULTS FOR

Gandy Marley

Attention Larry Gandy

PO BOX 1658

ROSWELL

NM 88202

Date: Mar 19, 1997

Date Rec: 3/15/97

Project: N/A

Proj Name: Quarterly Background

Proj Loc: Landfarms

Lab Receiving #: 9703000256

Sampling Date: 3/12/97

Sample Condition: Intact and Cool

Sample Received By: BL

TA#	Field Code	MATRIX	TRPHC (mg/Kg)	MTBE (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P,O XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)
T 69218	OCD Cell #1	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T 69219	OCD Cell #2	Soil	<10.0	<0.050	<0.050	<0.050	<0.050	0.071	0.071
QC			102	0.109	0.103	0.103	0.105	0.328	
RPD			2	4	4	4	4	5	
% Extraction Accuracy			102	99	93	96	102	106	
% Instrument Accuracy			102	109	103	103	105	109	

Reporting Limit:

10 0.05 0.05 0.05 0.05 0.05

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
MTBE/BTEX	EPA 5030	3/17/97	EPA 8020	3/17/97	RW	0.100 ea	5 ea
TRPHC	EPA 3550	3/16/97	EPA 418.1	3/17/97	AG	100	250

[Signature]

3-19-97

Director, Dr. Blair Leftwich

Date

250

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

FAX #: 506 398-8322

Project Name: 154 Qtr background. 97

Sampler Signature: hang Candy

3E

Received by:

Received by:

Received by Laboratory:

REMARKS

3-19

5656

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

ANALYTICAL RESULTS FOR

GANDY MARLEY, INC.

Attention: Larry Gandy

Box 1658

Roswell, NM 88202

November 19, 1996

Receiving Date: 11/01/96

Sample Type: Soil

Project No: NA

Project Location: Land Farm

Prep Date: 11/05/96

Analysis Date: 11/05/96

Sampling Date: 10/31/96

Sample Condition: Intact & Cool

Sample Received by: ML

Project Name: Yearly Background

TA#	FIELD CODE	SPECIFIC		ALKALINITY		pH
		CONDUCTANCE (uMHOS/cm)	CHLORIDE (mg/kg)	SULFATE (mg/kg)	(mg/L as CaCO3) HCO3 CO3	

T61446 OCD Yearly Background Cell #1

T61447 OCD Yearly Background Cell #2

QC Quality Control

RPD

% Extraction Accuracy

% Instrument Accuracy

REPORTING LIMIT

METHODS: EPA 120.1, 300.0, 310.1, 150.1.

CHEMIST: Specific Conductance/Chloride/Sulfate: MS

SPIKE: 1,000 mg/kg CHLORIDE, SULFATE.

QC: 25 mg/L CHLORIDE, SULFATE.

Alkalinity: RCD

pH: JT

Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonnell

Date

11-19-96

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

ANALYTICAL RESULTS FOR

GANDY MARLEY, INC.

Attention: Larry Gandy

Box 1658

Roswell, NM 88202

November 19, 1996

Receiving Date: 11/01/96

Sample Type: Soil

Project No: NA

Project Location: Land Farm

Prep Date: 11/02/96

Analysis Date: 11/12/96

Sampling Date: 10/31/96

Sample Condition: Intact & Cool

Sample Received by: ML

Project Name: Yearly Background

TA#	Field Code	POTASSIUM (mg/kg)	MAGNESIUM (mg/kg)	CALCIUM (mg/kg)	SODIUM (mg/kg)
T61446	OCD Yearly Background Cell #1	1,200	770	1,400	130
T61447	OCD Yearly Background Cell #2	1,100	810	1,700	57
QC	Quality Control	25.65	25.4	25.2	25.55

Reporting Limit

30

1

1

40

RPD

% Extraction Accuracy

% Instrument Accuracy

1

105

103

1

99

102

2

100

101

0

98

102

METHODS: EPA 200.7.

CHEMIST: RR

SPIKE: 20,000 mg/kg POTASSIUM, MAGNESIUM, SODIUM, CALCIUM.

QC: 25 mg/L POTASSIUM, MAGNESIUM, CALCIUM, SODIUM.

Director, Dr. Blair Leftwich

Director, Dr. Bruce McDonnell

Date

11-19-96

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

ANALYTICAL RESULTS FOR

GANDY MARLEY, INC.

Attention: Larry Gandy

Box 1658

Roswell, NM 88202

November 19, 1996

Receiving Date: 11/01/96

Sample Type: Soil

Project No: NA

Project Location: Land Farm

Extraction Date: 11/10/96

Analysis Date: 11/10/96

Sampling Date: 10/31/96

Sample Condition: I & C

Sample Received by: ML

Project Name: Yearly Back-ground

TOTAL METALS (mg/kg)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
T61446	OCD Yearly Background Cell #1	<10.0	<10.0	<2.0	<5.0	<10.0	<5.0	25.0	<0.25
T61447	OCD Yearly Background Cell #2	<10.0	<10.0	<2.0	<5.0	<10.0	<5.0	29.0	<0.25
QC	Quality Control	5.08	5.11	5.06	5.03	5.14	0.99	5.11	0.005
Reporting Limit		10.0	10.0	2.0	5.0	10.0	5.0	20.0	0.25
RPD		5	3	0	5	0	0	3	8
% Extraction Accuracy		96	89	77	91	75	98	95	104
% Instrument Accuracy		102	102	101	101	103	100	102	100

METHODS: EPA SW 846-3051, 6010, 7471.

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: CB

TOTAL METALS SPIKE: 100.0 mg/kg As, Se, Cd, Cr, Pb; 30.0 mg/kg Ag; 250 mg/kg Ba; 2.5 mg/kg Hg.

TOTAL METALS QC: 5.0 mg/L As, Se, Cd, Cr, Pb, Ba; 1.0 mg/L Ag; 0.005 mg/L Hg.

BS

11-19-96

Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonell

Date



COMMERCIAL LAND FARMS

*A New Mexico Enterprise
Serving New Mexico's Needs*

CONSERVATION DIV
RECEIVED
96 NOV 14 AM 8

November 15, 1996

Mr. Roger Anderson
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Re: Quarterly soil analysis

Mr. Roger Anderson

Please find enclosed a copy of Gandy Marley, Inc. land farm quarterly sample analysis reports for the second and third quarters. This report is respectfully submitted as required

Sincerely,

Mike Marley
Gandy Marley, Inc..

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

TRACE ANALYSIS, INC.

ANALYTICAL RESULTS FOR

GANDY MARLEY

P. O. Box 1658

Roswell, NM 88202

Prep Date: 10/03/96

Analysis Date: 10/03/96

Sampling Date: 09/29/96

Sample Condition: Intact & Cool

Sample Received by: ML

Project Name: Quarterly

Background

October 07, 1996

Receiving Date: 10/02/96

Sample Type: Soil

Project No: NA

Project Location: OCD & UST Land Farms

TA#	Field Code	TRPHC (mg/kg)	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	M, P, O XYLENE (mg/kg)	TOTAL BTX (mg/kg)
-----	------------	------------------	-----------------	--------------------	--------------------	------------------------------	------------------------------	-------------------------

T59640	OCD Cell #1	12.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
--------	-------------	------	--------	--------	--------	--------	--------	--------

T59641	OCD Cell #2	12.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
--------	-------------	------	--------	--------	--------	--------	--------	--------

T59642	UST Cell #1	24.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
--------	-------------	------	--------	--------	--------	--------	--------	--------

QC	Quality Control	97	0.102	0.109	0.109	0.108	0.333	
----	-----------------	----	-------	-------	-------	-------	-------	--

REPORTING LIMIT

10

0.050

0.050

0.050

0.050

0.050

RPD

% Instrument Accuracy	3	2	1	1	1	1	1	1
-----------------------	---	---	---	---	---	---	---	---

% Instrument Accuracy	110	108	101	105	106	108	109	111
-----------------------	-----	-----	-----	-----	-----	-----	-----	-----

METHODS: EPA SW 846-8020, 5030, 3550 HIGH LEVEL; EPA 418.1.

CHEMIST: TRPHC: AG MTBE/BTEX: RW

TRPHC SPIKE: 250 mg/kg TRPHC.

MTBE/BTEX SPIKE: 5.000 mg/kg MTBE/BTEX.

TRPHC QC: 100 mg/L TRPHC.

MTBE/BTEX QC: 0.100 mg/L MTBE/BTEX.

Director, Dr. Blair Leftwich

Director, Dr. Bruce McDonnell

Date

10-7-96

[illegible]

6Am 40s.XC576AC-

(394)

14

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
GANDY MARLEY
Attention: Bill Marley
P. O. Box 1658
Roswell, NM 88202

July 19, 1996
Receiving Date: 07/16/96
Sample Type: Soil
Project No: Land Farm
Project Location: Chaves Co.

Extraction Date: 07/18/96
Analysis Date: 07/18/96
Sampling Date: 07/15/96
Sample Condition: Intact & Cool
Sample Received by: ML
Project Name: NA

TA#	FIELD CODE	TRPHC (mg/kg)
T55699	OCD Background	<10
T55700	UST Background	<10
QC	Quality Control	98

REPORTING LIMIT 10

RPD 6
% Extraction Accuracy 101
% Instrument Accuracy 99

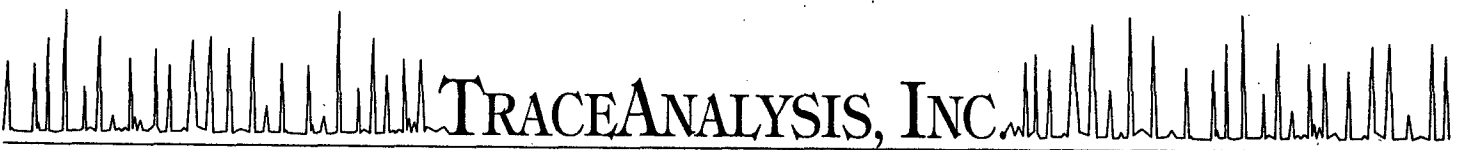
METHODS: EPA SW 846-3550 HIGH LEVEL; EPA 418.1.
CHEMIST: MB
TRPHC SPIKE: 250 mg/kg TRPHC.
TRPHC QC: 100 mg/L TRPHC.



Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonell

7-19-96

DATE


TRACE ANALYSIS, INC.

A Laboratory for Advanced Environmental Research and Analysis

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
GANDY MARLEY
Attention: Bill Marley
P. O. Box 1658
Roswell, NM 88202

July 19, 1996
Receiving Date: 07/16/96
Sample Type: Soil
Project No: Land Farm
Project Location: Chaves Co.

Prep Date: 07/16/96
Analysis Date: 07/16/96
Sampling Date: 07/15/96
Sample Condition: Intact & Cool
Sample Received by: ML
Project Name: NA

FIELD CODE: OCD Background
TA#: T55699

8240 Compounds	Concentration (ug/kg)	Reporting Limit
Benzene	ND	25
Toluene	ND	25
Ethylbenzene	ND	25
m & p-Xylene	ND	25
o-Xylene	ND	25

SURROGATES

RECOVERY

Dibromofluoromethane	99
Toluene-d8	95
4-Bromofluorobenzene	84

ND = Not Detected

METHODS: EPA SW 846-5030; EPA 8260.
CHEMIST: RP

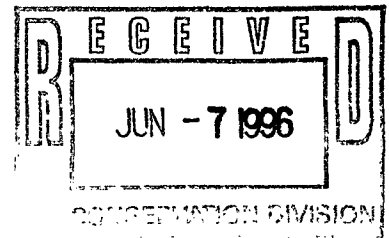


Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonell

7-19-96
Date


TRACE ANALYSIS, INC.

A Laboratory for Advanced Environmental Research and Analysis



COMMERCIAL LAND FARMS

*A New Mexico Enterprise
Serving New Mexico's Needs*

May 31, 1996

Mr. Chris Eustice
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Chris Eustice,

Please find enclosed a copy of Gandy Marley, Inc. landfarm quarterly soil sample analysis report. This report is respectfully submitted to the terms of the landfarm permit.

Any further information will be gladly provided.

Sincerely,


Mike Marley
Gandy Marley

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

Gravel
Background Sample

ANALYTICAL RESULTS FOR GMI, INC.

April 26, 1996

Receiving Date: 04/04/96

Sample Type: Soil

Project No: NA

Project Location: Chaves Co. NM

Attention: Bill Marley

P. O. Box 1658

Roswell, NM 88201

Prep Date: 04/04/96

Analysis Date: 04/04/96

Sampling Date: 04/03/96

Sample Condition: Intact & Cool

Sample Received by: SH

Project Name: Landy Farm

TA#	FIELD CODE	(NO3-N02)-N			FLUORIDE		SULFATE		ALKALINITY		TOTAL
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg as CaCO3)	CO3 (mg/kg as CaCO3)	
T50562	OCD Cell #1	10.3	15	0.3	<10.0	20	312	20	332		
QC	Quality Control	1.05	499	1.00	9.3						
RPD		0	1	7	9	4	4	4	4		4
% Extraction Accuracy		91	101	89	92						
% Instrument Accuracy		105	100	100	98						
REPORTING LIMIT		0.01	0.5	0.1	10.0	10	10	10	10		10

METHODS: EPA 353.3, 375.4, 310.1, 340.2; 4500 Cl-B.

CHEMIST: (NO3-N02)-N: SG; Chloride, Fluoride, Sulfate: MS; Alkalinity: JT

SPIKE: 1.00 mg/kg (NO3-N02)-N; 100 mg/kg CHLORIDE; 1.0 mg/kg FLUORIDE; 10.0 mg/kg SULFATE.

QC: 1.0 mg/L (NO3-N02)-N; 500 mg/L CHLORIDE; 1.0 mg/L FLUORIDE; 10.0 mg/L SULFATE.

RB

4-26-96

Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonnell

Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

ANALYTICAL RESULTS FOR

GMI, INC.

Attention: Bill Marley

P. O. Box 1658

Roswell, NM 88201

April 26, 1996

Receiving Date: 04/04/96

Sample Type: Soil

Project No: NA

Project Location: Chaves Co. NM

Extraction Date: 04/05/96

Analysis Date: 04/08/96

Sampling Date: 04/03/96

Sample Condition: Intact & Cool

Sample Received by: SH

Project Name: Landy Farm

TOTAL METALS (mg/kg)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
T50561	UST Cell #1	<10.0	<10.0	<2.0	<5.0	31.0	<0.5	77.8	<0.25
T50562	OCD Cell #1	<10.0	<10.0	<2.0	<5.0	17.0	<0.5	186.0	1.88
QC	Quality Control	7.5	5.71	3.19	0.26	10.85	0.6	2.71	2.49
Reporting Limit		10.0	10.0	2.0	5.0	10.0	0.5	20.0	0.25
RPD		6	1	2	3	3	2	15	4
% Extraction Accuracy		88	80	92	89	88	107	114	96
Instrument Accuracy		107	95	105	106	103	109	108	100

METHODS: EPA SW 846-3051, 6010, 7471.

CHEMIST: RR

TOTAL METALS SPIKE: 800.0 mg/kg As, Se, Ba; 80.0 mg/kg Cr; 20.0 mg/kg Cd, Ag; 200.0 mg/kg Pb; 2.50 mg/kg Hg.

TOTAL METALS QC: 7.0 mg/L As; 6.0 mg/L Se; 3.05 mg/L Cd; 0.25 mg/L Cr; 10.5 mg/L Pb; 0.55 mg/L Ag; 2.5 mg/L Ba; 2.50 mg/L Hg.

Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonnell

Date

4-26-96

TRACE ANALYSIS, INC.

FAX 806•794•1298

806•794•1298

Lubbock, Texas 79424

6701 Aberdeen Avenue

ANALYTICAL RESULTS FOR

GMI, INC.
Attention: Bill Marley
P. O. Box 1658
Roswell, NM 88201

Prep Date: 04/04/96
Analysis Date: 04/03/96
Sampling Date: 04/03/96
Sample Condition: Intact & Cool
Sample Received by: SH
Sample Received by: SH
Project Name: Landy Farm

April 5, 1996

Receiving Date: 04/04/96

Sample Type: Soil

Project No: NA

Project Location: Chaves Co. NM

MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	M,P,O XYLENE (mg/kg)	TOTAL BTX (mg/kg)
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
0.104	0.104	0.104	0.103	0.206	

Field Code

TA#	UST Cell #1	Quality Control
T50561		
QC		

Reporting Limit

RPD
% Extraction Accuracy
% Instrument Accuracy

METHODS: EPA SW 846-8020, 5030, 3550 HIGH LEVEL.

MTBE/BTEX SPIKE: 2.500 mg/kg MTBE/BTEX.

MTBE/BTEX QC: 0.100 mg/L MTBE/BTEX.

4-5-96

Date

Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonnell

50561-62

Fixed

TraceAnalysis, Inc.

6701 Aberdeen Avenue Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Bill Marley

Phone #: 505-675-9204

FAX #: 505-425-9709

Company Name & Address:

Gandy Morley, Inc.

Landform

100101

Project Name :

Project Location:

Sampler Signature:

Charles Co. New Mexico

[illegible]

95A2

95A2

Reinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

REMARKS

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received at Laboratory by/

2

Cl⁻, SO₄²⁻, NO₃⁻, F⁻,
Ca²⁺, Mg²⁺, K⁺, Na⁺, Alk⁺

GMB 74S
342)

4



MAR 11 1996

COMMERCIAL LAND FARMS

*A New Mexico Enterprise
Serving New Mexico's Needs*

March 6, 1996

Mr. Chris Eustice
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

Dear Chris,

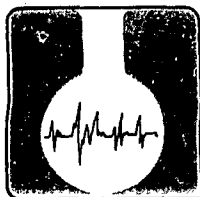
Please find enclosed a copy of Gandy Marley, Inc. landfarm quarterly soil sample analysis report. This report is submitted quarterly as to the terms of the landfarm permit.

Any further information will be gladly provided.

Sincerely,

A handwritten signature in cursive script that reads "Mike Marley".

Mike Marley
office manager



ASSAIGAI ANALYTICAL LABORATORIES

7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:

February 1, 1996 08:40

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT ATKINS ENGINEERING ASSOCIATES WORKORDER # : 9601142
TO: P.O. BOX 3156 WORK ID : GANDY-MARLEY INC.
2904 W. 2ND CLIENT CODE : ATK01
ROSWELL, NM 88201 DATE RECEIVED : 01/18/96
ATTN: JACK ATKINS

Page: 1

Lab ID: 9601142-01A
Sample ID: UST CELL #1

Collected: 01/17/96 13:42:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101
Toluene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101
Ethylbenzene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101
Xylene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101

Lab ID: 9601142-01B
Sample ID: UST CELL #1

Collected: 01/17/96 13:42:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ND	mg/Kg	0.10	1.0	01/29/96	SLFTG047

Lab ID: 9601142-02A
Sample ID: ODC CELL #1

Collected: 01/17/96 14:00:00
Matrix: SOIL

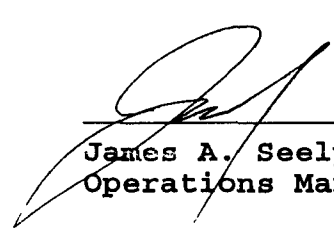
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101
Toluene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101
Ethylbenzene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101
O-Xylene	ND	mg/Kg	0.0010	5.0	01/19/96	SBTXME101



Lab ID: 9601142-02B
Sample ID: ODC CELL #1

Collected: 01/17/96 14:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs GAS/HDSPCE/CALDHS8015M HCs (Gasoline by Headspace)	ND	mg/Kg	0.10	1.0	01/29/96	SLFTG047



James A. Seely
Operations Manager

WORKORDER COMMENTS

DATE : 02/01/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

- ND = Analyte "not detected" in analysis at the sample specific detection limit.
- D_F = Sample "dilution factor"
- NT = Analyte "not tested" per client request.
- B = Analyte was also detected in laboratory method QC blank.
- E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
- LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS



**THE REPRODUCTION OF
THE
FOLLOWING
DOCUMENT (S)
CANNOT BE IMPROVED
DUE TO
THE CONDITION OF
THE ORIGINAL**

CC: JERRY SEXTON
CHRIS EUSTICE
LARRY GANDY

OIL CONSERVATION DIVISION
RECEIVED
NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

INSPECTION
CLASSIFICATION
FACILITY
HOURS
QUARTER
HOURS

05 SEP 29 AM 8 52
NAME WAYNE PRICE

Date 9/21/75 Miles 120 District I
Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [Signature]

GANDY-MARLEY LAND FARM

PERMITS (NM-711-1-0020)

WITNESSED TAKING SAMPLE IN CELL #1
BILL MARLEY, LARRY GANDY, L.W. PRICE

RESULTS WILL BE SENT TO CHRIS EUSTICE
NMOCd SANTA FE & 1 COPY TO L.W. PRICE
DISTRICT.

TOOK PICTURES, 18 HOLE SAMPLE
WITH BENTONITE PELLETS - LOCATION OF
SAMPLE MARKED ON C-O-C.

LARRY GANDY WILL PLACE SIGN OF NMOCd SIDE.

Mileage	Per Diem	Hours
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION
PERFORMED

INSPECTION
CLASSIFICATION

NATURE OF SPECIFIC WELL
OR FACILITY INSPECTED

- H = Housekeeping
- P = Plugging
- C = Plugging Cleanup
- T = Well Test
- R = Repair/Workover
- F = Waterflow
- M = Mishap or Spill
- W = Water Contamination
- O = Other

- U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
- R = Inspections relating to Reclamation Fund Activity
- O = Other - Inspections not related to injection or The Reclamation Fund

- D = Drilling
- P = Production
- I = Injection
- C = Combined prod. inj. operations
- S = SWD
- U = Underground Storage
- G = General Operation
- F = Facility or location
- N = Nesting
- O = Other

X = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)



Lovington Office
(505) 396-4948
FAX 396-6887

Tatum Office
(505) 398-4960
FAX 398-6887

Chris,

Here are the Background
Analyses for your file.

If this is not enough
Please call me.

Thanks for all your help

Larry Candy



ARDINAL
LABORATORIES

CONSERVATION DIVISION
RECEIVED

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

BACKGROUND

TPH/BTEX ANALYSIS REPORT

Company: Gandy Marley, Inc.
Address: P.O. Box 827
City, State: Tatum, NM 88267

Date: 2/22/95
Lab #: H1964

Project Name: Gandy Marley, Inc.
Location: 4 Mi. West Caprock

Sampled by: LG Date: not given Time: not given
Analyzed by: MF, HM Date: 2/15-16/95 Time: various
Sample Type: Soil Sample Condition: Intact

Units: mg/kg

Samp #	Field Code	TRPHC	BENZENE	TOLUENE	ETHYL BENZENE	PARA-XYLENE	META-XYLENE	ORTHO-XYLENE
1	Cell #1	86.7	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
2	Cell #2	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

QC Recovery	392.2	0.927	0.818	0.921	0.896	0.910	0.937
QC Spike	405.9	0.881	0.865	0.869	0.866	0.860	0.886
Accuracy	96.6%	105.2%	94.6%	106.0%	103.5%	105.8%	105.8%
Air Blank	***	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Methods - GAS CHROMATOGRAPHY, INFRARED SPECTROSCOPY
- EPA SW-846; 8020, 418.1, 3540 OR 3510

Michael R. Fowler

2-22-95
Date



ARDINAL
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

FINAL ANALYSIS REPORT

Company: Gandy Marley, Inc.
Address: P.O. Box 827
City, State: Tatum, NM 88267

Date: 3/2/95
Lab #: H1977

Project Name: Gandy Marley, Inc.
Location: 4 Miles West Caprock

Sampled by: LG
Analyzed by: HM
Sample Type: Soil

Date: not given Time: not given
Date: 3/2/95 Time: 9:00

Sample Condition: Intact Units: mg/kg

Samp
#

FIELD CODE

TRPHC

1	GNI #1 Cell #1	44.3
---	----------------	------

QC Recovery	419.1
QC Spike	405.9
Accuracy	103.3%

Methods - INFRARED SPECTROSCOPY
- EPA SW-846; 418.1, 3540 OR 3510

Hope Moreno
Hope Moreno

3-2-95
Date



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

TCLP ANALYSIS REPORT

Company: Gandy Marley, Inc.
Address: P.O. Box 827
City, State: Tatum, NM 88267

Date: 2/22/95
Lab #: H1964-2

Project Name: Gandy Marley, Inc.
Location: 4 Mi. West Caprock
Sampled by: LG
Sample Type: Soil

Date: not given
Sample Condition: Intact

Sample ID: Cell #2

TCLP INORGANICS (Leachate)

<u>PARAMETER</u>	<u>RESULT</u>	<u>EPA LIMIT</u>	<u>UNITS</u>
Silver	<0.1	5	ppm
Arsenic	<0.01	5	ppm
Barium	2.42 ✓	100	ppm
Cadmium	<0.1	1	ppm
Chromium	<0.1	5	ppm
Mercury	<0.001	0.2	ppm
Lead	<0.1	5	ppm
Selenium	<0.01	1	ppm

METHODS: TCLP INORGANICS (Leachate) - EPA 1311/7000

Michael R. Fowler

2-22-95
Date



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

TCLP ANALYSIS REPORT

Company: Gandy Marley, Inc.
Address: P.O. Box 827
City, State: Tatum, NM 88267

Date: 2/22/95
Lab #: H1964-1

Project Name: Gandy Marley, Inc.
Location: 4 Mi. West Caprock
Sampled by: LG
Sample Type: Soil

Date: not given
Sample Condition: Intact

Sample ID: Cell #1

TCLP INORGANICS (Leachate)

<u>PARAMETER</u>	<u>RESULT</u>	<u>EPA LIMIT</u>	<u>UNITS</u>
Silver	<0.1	5	ppm
Arsenic	<0.01	5	ppm
Barium	2.36	100	ppm
Cadmium	<0.1	1	ppm
Chromium	<0.1	5	ppm
Mercury	<0.001	0.2	ppm
Lead	<0.1	5	ppm
Selenium	<0.01	1	ppm

METHODS: TCLP INORGANICS (Leachate) - EPA 1311/7000

Michael R. Fowler

2 22 85
Date