

RECEIVED

MAR 24 2003

**ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION**

MARALO SITE

SECTION 36, TWS. 25 S., RNG. 36 E.

JAL, NM

MARCH 2003

**Before the OCC
Case 13142 - *De Novo*
OCD Ex. 6**

1

March 14, 2003

William Olson
NMOCD Environmental
Box 6429
1220 S. Saint Francis Drive
Santa Fe, NM 87504

RE: Maralo site
Anthony Ranch

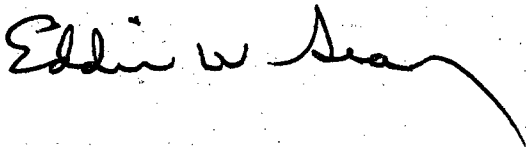
Mr. Olson:

I was requested by Mr. Jay Anthony to conduct a preliminary site investigation of an abandoned tank battery site, which belonged to Maralo Oil Co.

The request was to drill soil borings at the site to determine the extent of contamination. This investigation was not to delineate the extent of the contamination, but to investigate if contamination existed above OCD guidelines. Two soil borings were advanced at the site, one up gradient and one down gradient of an existing water well.

Within is information obtained. If you have any questions, please call.

Sincerely,



Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88242
(505)392-2236

**Maralo Site
Anthony Ranch
Jal, New Mexico**

The site is an abandoned oil and gas production facility which was taken out of service and all equipment removed. The site was not remediated, the facility covered approximately three acres of surface and the remains of pits and hydrocarbon soil are visible. On the lease road adjacent to this site is an abandoned water well, the analytical from the water sample taken from this well shows elevated chloride.

The investigation consisted of installing two soil borings, one up gradient and one down gradient and testing the soil for BTEX, TPH and chloride. Both borings were advanced to 80', taking samples at various depths. The two borings were identified by MA 1 and MA 2, attached are logs, analytical, photos and maps.

Investigation

A rotary rig was used and operated by Phoenix Environmental. Samples were taken with split spoon sampling tool, deconing equipment between samples. After sampling was completed, the borings were plugged with bentonite and holes were marked for future reference.

Sampling:

MA 1-1	8 to 10 ft. oily strong odor
MA 1-2	20 ft. oily strong odor
MA 1-3	40 ft. strong odor, discolored caliche
MA 1-4	60 ft. slight odor, staining
MA 1-5	80 ft. slight odor

TD 80 ft.

0'-10' top soil rock, very oily
10'-35' sand, rock, oily
35'-50' caliche, rock, oil stained
50'-65' sand, small gravel
65'-80' sand, clay

MA 2-1	8' to 10' black oily, strong odor
MA 2-2	20' oily, strong odor
MA 2-3	40' stained caliche, slight odor
MA 2-4	60' slight odor
MA 2-5	80' slight odor

0'-15' black very oily top soil
15'-26' sand, rock, oily, strong odor
26'-32' caliche, charcoal gray, strong odor
32'-38' caliche white in color, odor
38'-48' caliche, sand, rock, odor
48'-57' sand, caliche, rock
57'-80' sand, clay, rock
TD 80 ft.

Conclusion

From the analytical data provided on the soil borings, it is obvious that an extensive investigation and remediation plan needs to be undertaken by the responsible party. The analytical exceeds the guidelines set forth by the NMOCD for cleanup and remediation. Given the depth of contamination in the soil borings, it will just be a matter of time before we have major impact to the groundwater.

103°14'00" W

TOPO! map printed on 03/12/03 from "New Mexico.tpo" and "Untitled.tpo"

103°13'00" W

WGS84 103°12'00" W

32°07'00" N

32°06'00" N

32°05'00" N

32°04'00" N

32°07'00" N

32°06'00" N

32°05'00" N

32°04'00" N

103°14'00" W

103°13'00" W

WGS84 103°12'00" W

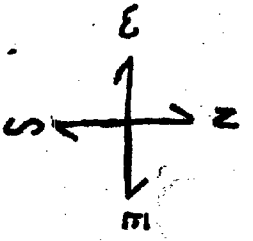
N
84°

0 1000 FEET 0 500 1000 METERS
MILE
Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

5

Tank Battery Area

MA #2



city of Fall Water Line

TMP - 500' Pipeline

Lease Road

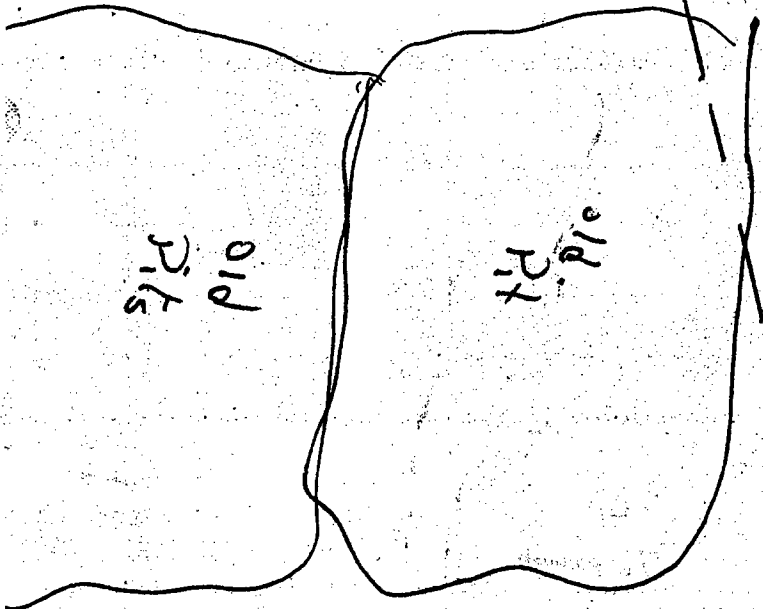
water well

Tank Battery Area

MA #1

old pit

old pits



ANALYTICAL RESULTS FOR
 EDDIE SEAY CONSULTING
 ATTN: EDDIE SEAY
 601 W. ILLINOIS
 HOBBS, NM 88242
 FAX TO: (505) 392-6949

Receiving Date: 03/05/03
 Reporting Date: 03/10/03
 Project Owner: J. ANTHONY
 Project Name: MARALO-ANTHONY
 Project Location: JAL, NM

Sampling Date: 03/04/03
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE:		03/06/03	03/06/03
H7515-1	MA 1-1	5480	160
H7515-2	MA 1-2	5670	80
H7515-3	MA 1-3	8250	80
H7515-4	MA 1-4	2580	80
H7515-5	MA 1-5	2860	144
H7515-6	MA 2-1	16600	48
H7515-7	MA 2-2	1700	48
H7515-8	MA 2-3	5690	112
H7515-9	MA 2-4	999	80
H7515-10	MA 2-5	1370	48
Quality Control		241	1080
True Value QC		240	1000
% Recovery		100	108
Relative Percent Difference		1.1	8.0

METHODS: TPH-EPA 600/4-79-020 418.1; CI-Std. Methods 4500-CI/B

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

Buyer's Signature
 Chemist

3/10/03
 Date

H7515A.XLS

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

8

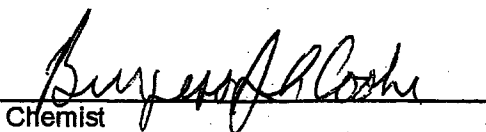
ANALYTICAL RESULTS FOR
 EDDIE SEAY CONSULTING
 ATTN: EDDIE SEAY
 601 W. ILLINOIS
 HOBBS, NM 88242
 FAX TO: (505) 392-6949

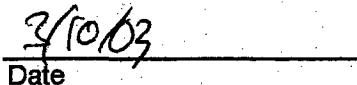
Receiving Date: 03/05/03
 Reporting Date: 03/10/03
 Project Owner: J. ANTHONY
 Project Name: MARALO-ANTHONY
 Project Location: JAL, NM

Sampling Date: 03/04/03
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		03/07/03	03/07/03	03/07/03	03/07/03
H7515-1	MA 1-1	<0.005	<0.005	<0.005	<0.015
H7515-5	MA 1-5	<0.005	<0.005	<0.005	<0.015
H7515-6	MA 2-1	<0.005	<0.005	<0.005	<0.015
H7515-10	MA 2-5	<0.005	<0.005	<0.005	<0.015
Quality Control		0.094	0.092	0.090	0.268
True Value QC		0.100	0.100	0.100	0.300
% Recovery		94.3	91.6	90.3	89.3
Relative Percent Difference		3.8	6.8	8.2	5.4

METHOD: EPA SW-846 8260


 Buyer of Ash
 Chemist


 3/10/03
 Date

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



ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name: Eddie's Security Consulting
Project Manager: Eddie's Security Consulting

Address: 601 W Illinois
City: Hobbs State: NM Zip: 88242

Phone #: 392.22.36
Fax #: 392.6949

Project #: Marale Project Owner: J. Anthony
Project Name: Marale - Anthony State: NM Zip: 88242

Project Location: 501 N.M. Phone #: 392.22.36 Fax #: 392.6949

FOR LAB USE ONLY

LAB I.D. Sample I.D.

LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRES.	SAMPLING	DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE				
MA 1-1	MA 1-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	9:30	9:30
MA 1-2	MA 1-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	9:35	9:35
MA 1-3	MA 1-3	✓	✓	✓	✓	✓	✓	✓	✓	✓	10:30	10:30
MA 1-4	MA 1-4	✓	✓	✓	✓	✓	✓	✓	✓	✓	11:00	11:00
MA 1-5	MA 1-5	✓	✓	✓	✓	✓	✓	✓	✓	✓	12:10	12:10
MA 2-1	MA 2-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	12:35	12:35
MA 2-2	MA 2-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	12:50	12:50
MA 2-3	MA 2-3	✓	✓	✓	✓	✓	✓	✓	✓	✓	11:15	11:15
MA 2-4	MA 2-4	✓	✓	✓	✓	✓	✓	✓	✓	✓	11:45	11:45
MA 2-5	MA 2-5	✓	✓	✓	✓	✓	✓	✓	✓	✓	12:30	12:30

LABORATORY NOTE: Labster and Manager, Customer's liability and safety are not intended to be limited to the amount paid by the client for the analysis. All debris including those for negligence and any other debris whatsoever shall be deemed unless stated in writing and received by Cardinal within 30 days after completion of the analysis. In no event shall Cardinal be liable for indirect or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Labster will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Relinquished By: [Signature] Date: 3/5 Time: 9:30
Received By: [Signature] Date: 3/5 Time: 9:30

Delivered By: (Circle One) Sample - UPS - Bus - Other: Other
Sample Condition: Intact ☒ Yes ☐ No

Checked By: [Signature] (Initials)
REMARKS: MA - Marale, Anthony

ANALYSIS REQUEST

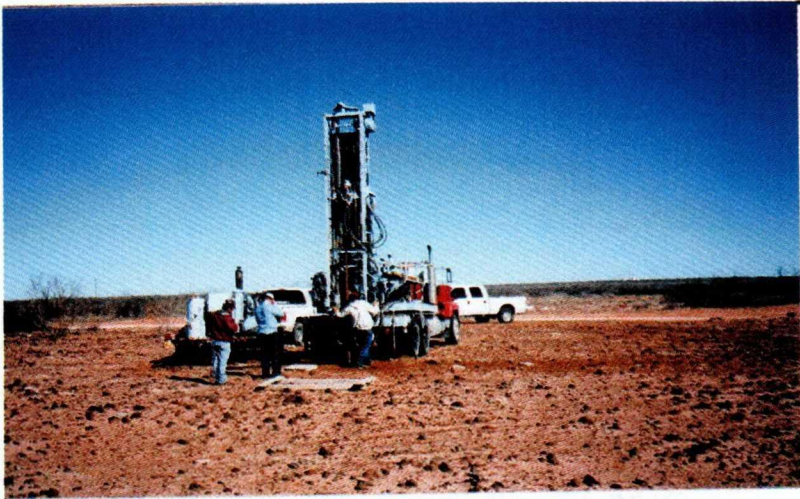
TPH (48.1)
Chloride
BTX

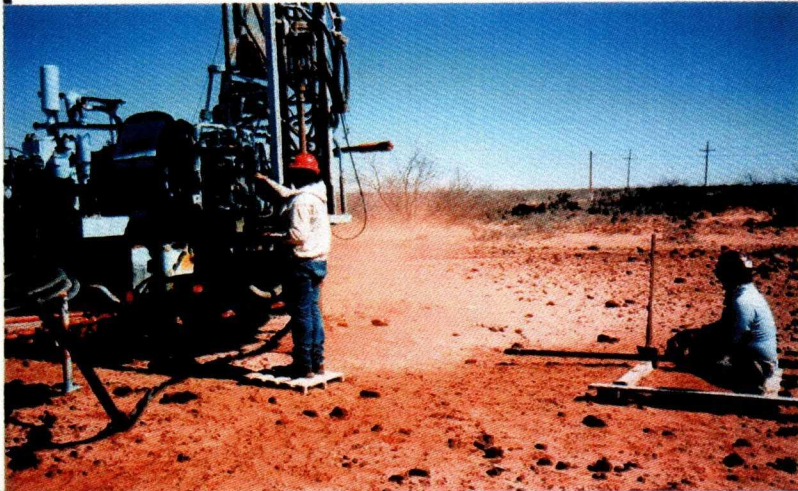
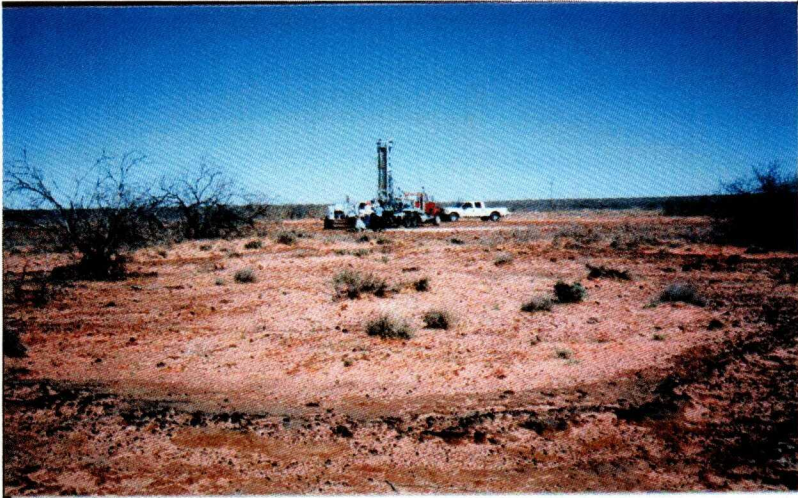
Anthony
Maralo

3/4/2003

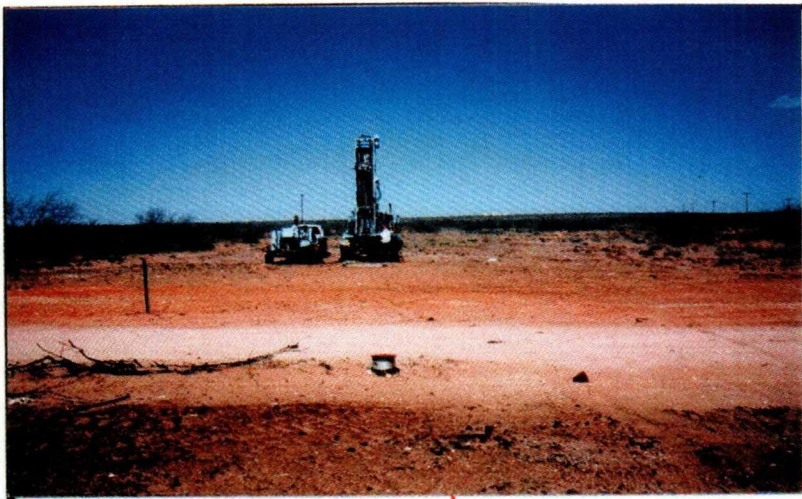
MA #1











↑
MA #2
↓

