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GENERAL CORRESPONDENCE

YEAR(S): 1997

Safety & Environmental Solutions, Inc.

JUL 1 1 1397

July 08, 1997

New Mexico Oil Conservation Division

1st Street

Artesia, NM 88201

Attention:

Mr. Tim Gum

Mr. Ray Smith

Mr. Brian Arrandt

RECEIVED

JUL 24 1997

Environmental Bureau Oil Conservation Division

Gentlemen:

Enclosed please find the closure request on the GRB Properties recent leak. As per my conversation with Mr. Gum on 3/25/97, they have completed proper remediation procedures using the contaminated soils to berm the location. This work plan was verbally approved by the NMOCD office in Artesia, NM.

Safety & Environmental Solutions, Inc. is submitting the following documentation requesting final closure on this leak. The work on the location is completed at this time, however, if modifications are required, GRB Properties has agreed to comply with modifications requested by NMOCD.

If you have any questions, please feel free to call me at my office, or to call Mr. Gary Bailey at:

> GRB Properties, Inc. Building Two, Suite 100 3300 North "A" St. Midland, TX 79705 (915) 685-1980

Yours in Safety,

Dyke A. Browning - REM, CEL

SES Inc.



Safety & Environmental

Solutions, Inc.

GRB Properties, Inc.

State A Leak Site Closure Request Eddy County, New Mexico

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JUL 24 1997

Environmental Bureau
Oil Conservation Division

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 103 Hobbs, New Mexico 88240 (505) 397-0510

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I. Physical Description

The leak was located on the State A lease. The legal description of the lease is in the E/2, E/2SW/4 and SW/4SW/4 of Section 16: S/2N/2, N/2SW/4 or Section 17: SE/4 of Section 18; NW/4NE/4, SE/4NE/4, N/2SE/4 and SW/4SE/4 of Section 19; S/2SW/4 of Section 20; W/2NW/4 of Section 29; NE/4 of Section 30; all in Township 20S Range 30 E, Eddy County, New Mexico. The elevation is approximately 3250 feet above sea level. (Vicinity Map) The land is owned by the Bureau of Land Management.

II. Background

The site is located on a production vessel location belonging to GRB Properties, Inc. The lease was drilled beginning in 1928 and wooden tanks are still on site. Evidence of historical contamination exists throughout the location and has turned to asphalt/hardpan.

III. Contaminant and Size of Leak

The leak was a result of an overflow of and storage vessel. The leak was basically contained to the location in an area 228' X 419'. A vacuum truck was onsite and was used to pick up free crude. The only contamination outside the fence are two small tendrils on the south end of the location. (Site Plan)

IV. Vertical and Horizontal Extent of Contamination

On August 6, 1996 two test holes were hand augured at points on the leak site to determine the horizontal extent of the contamination. (Site Plan) The first test hole was augured to a depth of 48" where groundwater was encountered and the second test hole was augured to a depth of 11' and did not encounter groundwater.

The technician sampled the soils from the bottom of each test hole, groundwater from test hole #1, and the water in the nearby lake. The samples were packed in glass jars, cooled and transported under chain of custody to Cardinal Laboratories for analysis. The soils were analyzed for Total Petroleum Hydrocarbons (TPH) and BTEX. The water was analyzed for TPH, BTEX, Chlorides and Total Dissolved Solids (TDS). The results of the soil analysis showed TPH under 100 ppm and BTEX under 0.002 ppm. The groundwater analysis showed TPH under 1 ppm, BTEX under 2 ppb, TDS of 18380 mg/L and Chlorides of 7447 mg/L. The results of the analysis of the lake water showed TPH of under 1 ppm, BTEX under 2 ppb, TDS of 13420 mg/L and Chlorides of 4898 mg/L. (See analytical results)

The vertical extent of the contamination is limited to 0 - 12 inches due to the red clay formation just under the surface at this site. The horizontal extent is an area 228' X 419' and was determined by visual inspection of the surface and immediate subsurface. The horizontal extent of contamination was largely controlled by the contour of the surface.

The leak was remediated (per work plan approved verbally by NMOCD) by scooping up all contaminated soils generated by this leak and using this material to create a dike around the location to protect the nearby surface water. All contaminated soils were removed and used in dike construction.

V. Surface Water and Waterways

The distance to the nearest surface water is in approximately 150 feet. The leak, however, has not reached the small lake to the southeast of the location. (See analytical results)

VI. Groundwater

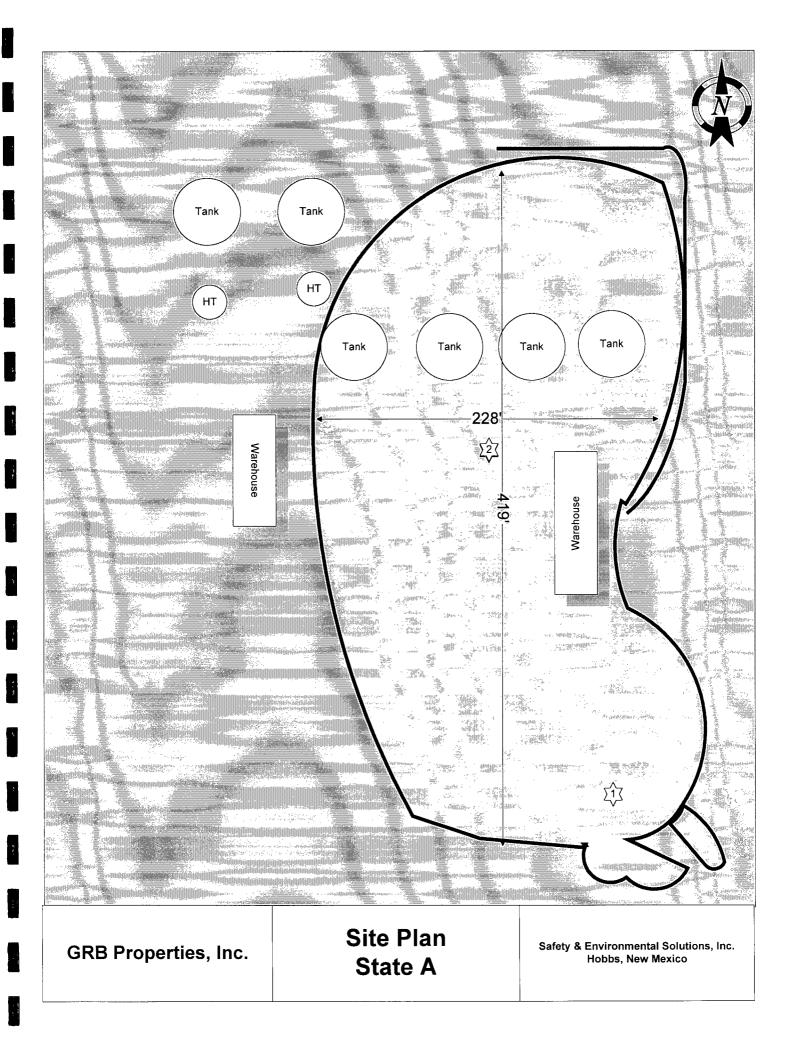
The groundwater is approximately 3' in depth at this location. This depth was confirmed with the encounter of groundwater in test hole #1 at 42". Sample holes were plugged with bentonite and grout.

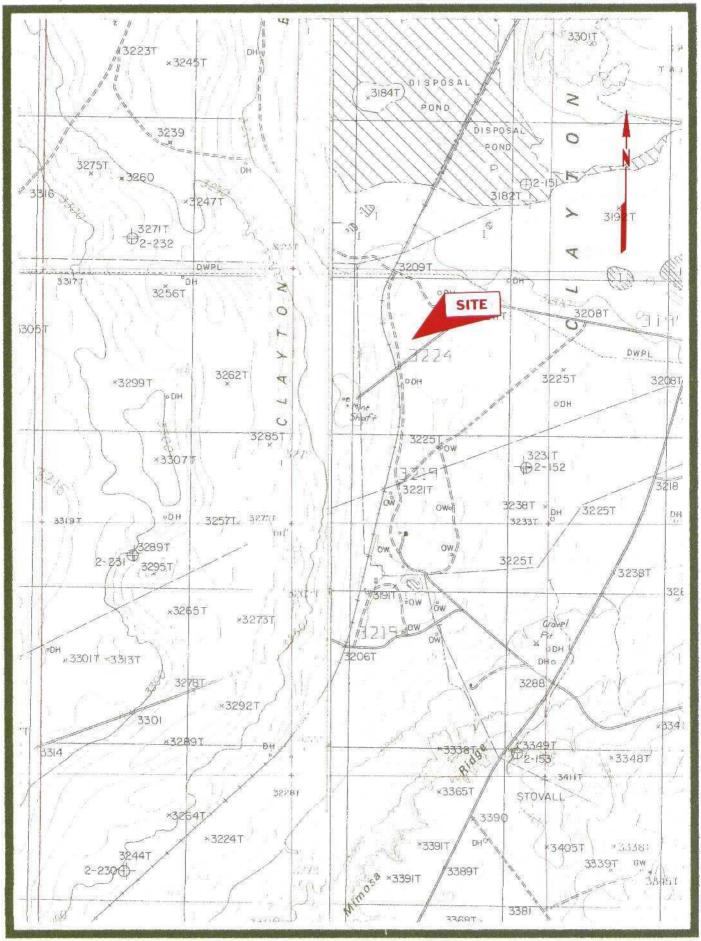
VII. Soil Information

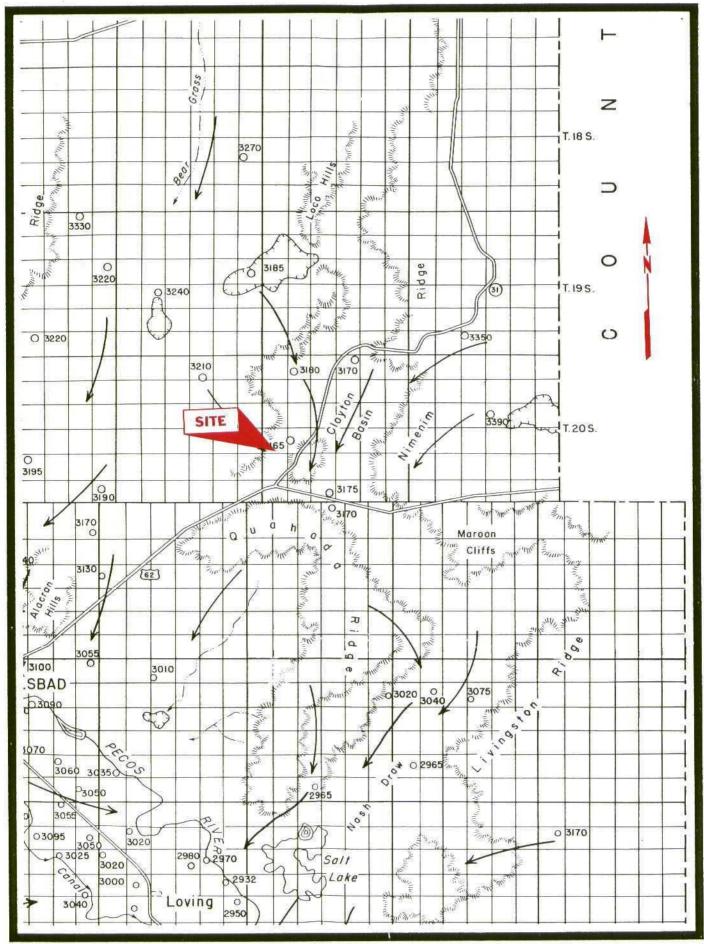
United States Soil Conservation Service Soil Survey of Eddy County, New Mexico was not available at the time of this assessment.

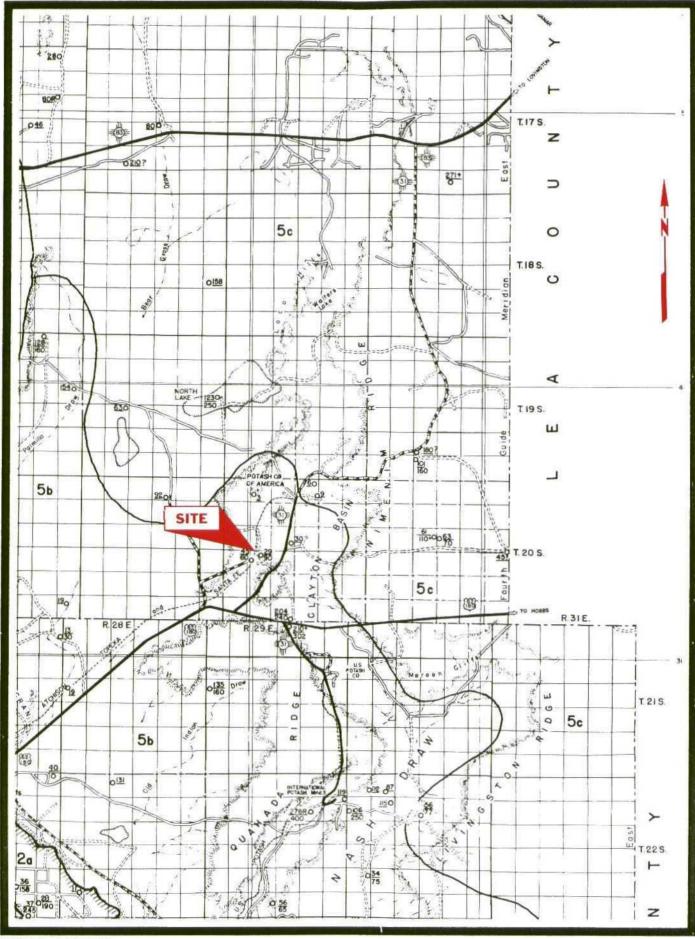
VIII. Maps and Figures

7.5 minute Quadrangle Map Water Resource Map Site Plan Analytical Results









CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page

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PHONE (915) 673-7001 ● 2111 BEECHWJOD ● ABILENE TX 79603

PHONE (505) 393-2326 . 11 E MARLAND . HOBBS, NM 38240

ARDINAL LABORATORIES

ŏ ANALYSIS REQUEST Solids Dissalved 20 SabinolAC Hdl BTEX 4.100 dar, h 4:00 TIME 4.100 SAMPLING DATE # Od **Z**p: : ABHTO PRESERTATION 565 XX ICE / COOF VCID: BILL TO TYKE Company: Address: Phone #: BLUDGE Fax #: Attn: State: Clty: MATRIX THO 1105 Killy & Environmental Sulutions **MASTEWATER** GROUNDWATER COMP(C) OR CRAB(C) Q Slate. A Test Hole 1 (Sur Side A Goordwerles State A Test Hob# 2 (North) 검 Sub A#1 Lake 1 #2 Lake Dyke Branning Kesource State: Sample I.D. badshad CRB Project Manager: Project Location: LAB LD. # Company Name: H2853-1 H3833-3 43833-3 43835-4 Project Name: Project #: Address: Phone #: Fax #: CHY:

VEASENCE (Lability and Opmage. Cardinal's hability and client's exclusive remaing, whether based incorract priort, shall be writted to the all counts as the country of the class and shallower shall be defended and considered the constitution of the country of the class and an advantage, and country and constitution country and expenses and country of the country o

☐ No Additional Fax #: Phone Result ☐ Yes Fax Results: ☐ Yes REMARKS: CHECKED BY: Received By: / Lab Staff) Yes Cool Intact

Yes V Semple Condition Received By Hand delicered Time: UPS - Fed Ex - Bus - Other; Delivered Bv: (Circle One) Reincuished By:

Safety & Environmental Solutions, Inc.

collected a water sample consisting
of two (2) quart jars from a

hand-augered hole in the approximate
middle of the leak at the "State A" south
side (see A) GFB resources near Carlsbad. on

3/7/97. EPA SW 846 sampling techniques
were used, & O head space maintained
as near as possible & samples were
put on ice.

SES Inc John Dious

OCD Representative

Bright Mark Oli

Also collected soil sample @ 36" on middle of location - Field TPH= nil will submit for TPH:BTEX





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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: DYKE BROWNINIG

603 E. CLINTON HOBBS, NM 88240

FAX TO:

Receiving Date: 03/07/97

Reporting Date: 03/12/96

Project Number: NOT GIVEN

Project Name: GRB RESOURCES

Project Location: CARLSBAD, NM

Sampling Date: 03/07/97

Sample Type: SOIL

Sample Condition: COOL, INTACT

<1

Sample Received By: GP

Analyzed By: JA

,		,				
LAB NUMBER	R SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS D	ATE:	03/12/97	03/11/97	03/11/97	03/11/97	03/11/97
H2833-3	ST.A, T. HOLE 1 (S)	80.8	<0.002	<0.002	<0.002	<0.006
H2833-4	ST.A, T. HOLE 2 (N)	<10.00	<0.002	<0.002	<0.002	<0.006
Quality Contro		185	0.105	0.101	0.097	0.277
% Recovery		203 91	0.109 96	0.103 98	0.105 92	0.310

METHODS: TRPHC - EPA 600/7-79-020, 418.1; BTEX - EPA SW-846-8020

Burgess J. A. Cooke, Ph. D.

Relative Percent Difference

Date

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ATTN: DYKE BROWNING

603 E. CLINTON HOBBS, NM 88240

FAX TO:

Receiving Date: 03/07/97 Reporting Date: 03/12/96

Project Number: NOT GIVEN

Project Name: GRB RESOURCES Project Location: CARLSBAD, NM

Sampling Date:

Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: GP Analyzed By: GP/AH

TDS CI LAB NUMBER SAMPLE ID (mg/L) (mg/L)

ANALYSIS DATE:		03/10/97	03/10/97
H2833-1	ST. A, LAKE #1 & #2	13420	4898
H2833-2	ST. A, GRW #1 & #2	18380	7447
Quality Cont	rol	NR	496
True Value C	QC	NR	500
% Accuracy		NR 9	
Relative Percent Difference		3.3	0

METHODS: EPA 609/4-79-02 160.1 325.3

Buryay K. Coon

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FAX TO:

Receiving Date: 03/07/97

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Project Number: NOT GIVEN

Project Name: GRB RESOURCES

Project Location: CARLSBAD, NM

Sampling Date: 03/07/97

Sample Type: WATER

Sample Condition: COOL, INTACT

Sample Received By: GP

Analyzed By: JA

LAB NUMBE	R SAMPLE ID	TPH (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYL BENZENE (ppb)	TOTAL XYLENES (ppb)
ANALYSIS D	ATE:	03/12/97	03/11/97	03/11/97	03/11/97	03/11/97
H2833-1	ST.A, LAKE #1 & #2	<1.00	<2.00	<2.00	<2.00	<6.00
H2833-2	ST.A, GRW #1 & #2	<1.00	<2.00	<2.00	<2.00	<6.00
Quality Conti		185	105	101	97.0	277
True Value C	₹C	203	109	103	105	310
% Recovery		91	96	98	92	89
Relative Per	cent Difference	1	<1	<1	<1	<1

METHODS: TRPHC - EPA 600/7-79-020, 418.1; BTEX - EPA SW-846-8020

Burgess J. A. Cooke, Ph. D.

Date

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