

GW - 202

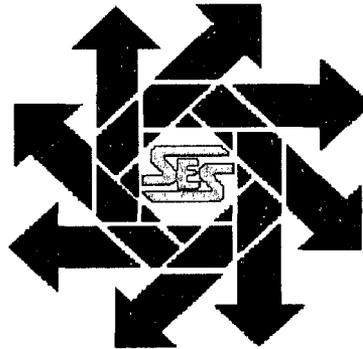
**MONITORING
REPORTS**

DATE:

2003

***Pro-Kem, Inc.
Monitor Well Report
Section 15, T16S, R36E
Lea County, New Mexico***

June 27, 2003



Prepared for:

***Pro-Kem, Inc.
P.O. Box 1506
Lovington, New Mexico 88260***

By:

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703 E. Clinton, Suite 102
Hobbs, New Mexico 88240
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I. Background

The subject property is located in south Lovington, New Mexico adjacent to NM Highway 18 in Section 15, Township 16S, Range 36E. Safety & Environmental Solutions, Inc. (SESI) performed sampling and data collection on the three (3) ground water monitor wells previously installed in November 1997 at the site (See Vicinity Map). The casing size in all wells is 2".

II. Work Performed

On June 27, 2003 an environmental technician with SESI arrived at the site. Ground water samples were taken from each well after a hand bailer was used to develop the wells. Three to five casing volumes of water were removed from each well until pH and temperature of the water were stabilized. The samples were obtained and placed in appropriate containers, preserved and transported under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for analysis for the contaminants Carbon Tetrachloride, and BTEX. (See Analytical Data)

In addition to the sampling, SESI also measured the depth to the top of the water table and the total depth of each well. The depth to the top of ground water was measured using a Solinst water level indicator. The total depth of each well was measured in order to compute the proper casing volumes. A groundwater potentiometric and gradient map was prepared using the measured depth to water and previously surveyed top of casing elevations. A summary of this data follows:

ID	DATE	TOP OF CASING ELEVATION	DEPTH TO WATER	POTENTIO METRIC ELEVATION	TOTAL WELL DEPTH	FREE PRODUCT THICKNESS
MW - 1	6/27/03	3895.67'	61.66'	3834.01'	73.22'	0.00
MW - 2	6/27/03	3894.33'	60.98'	3833.35'	70.20'	0.00
MW - 3	6/27/03	3894.13'	61.66'	3832.47'	71.20'	0.00

III. Analytical Results

The analysis of the groundwater samples performed by Cardinal Laboratories are summarized as follows:

CONTAMINANT	WQCC STANDARD	MW #1	MW #2	MW #3
Carbon Tet.	0.01 ppm	0.263ppm	0.011ppm	0.105ppm
Benzene	0.01 ppm	<0.005ppm	<0.005ppm	<0.005ppm
Toluene	0.75 ppm	<0.005ppm	<0.005ppm	<0.005ppm
Ethyl Benzene	0.75 ppm	<0.005ppm	<0.005ppm	<0.005ppm
Total Xylenes	0.62 ppm	<0.010ppm	<0.010ppm	<0.010ppm

IV. Figures and Appendices

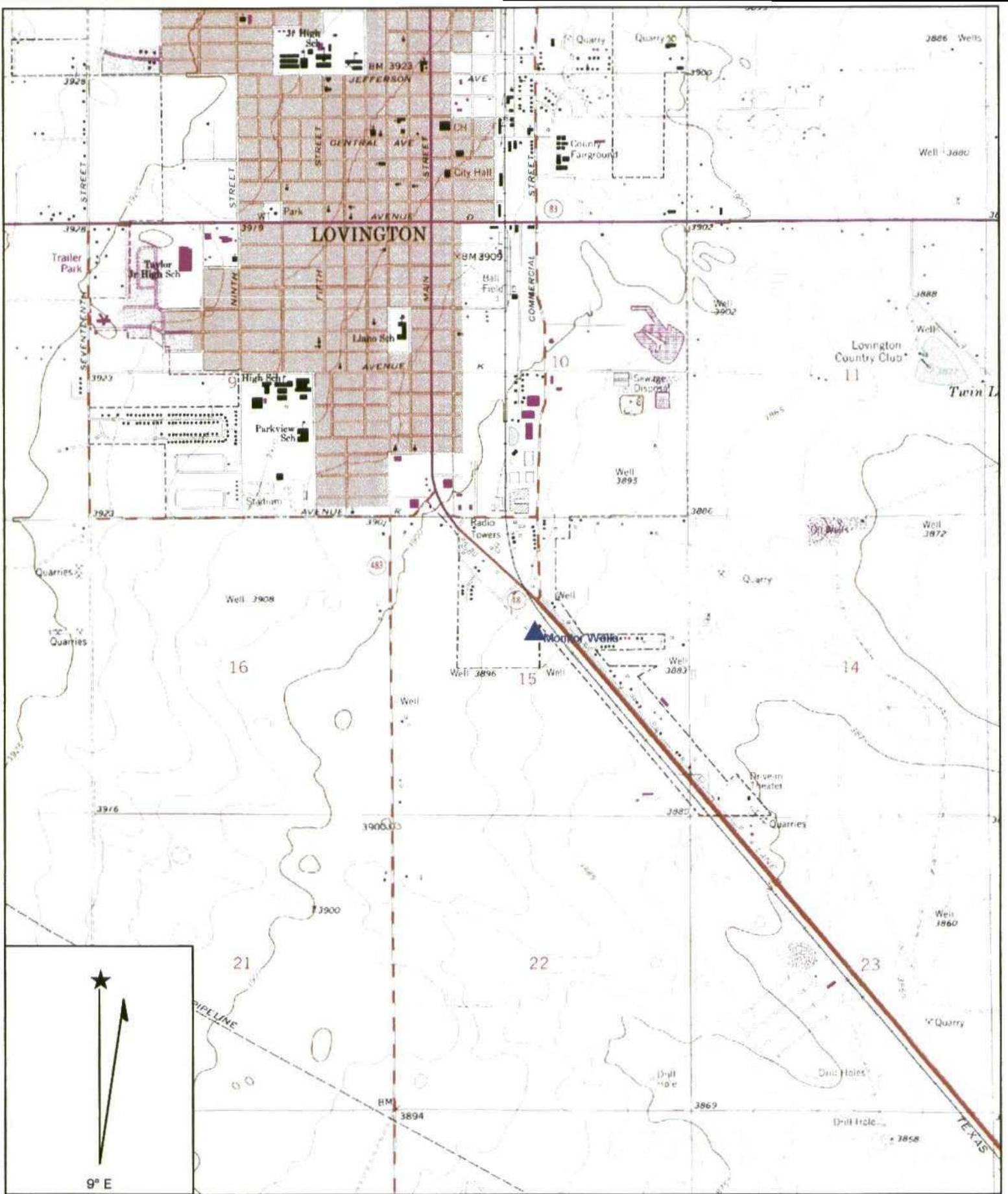
Figures1 - Vicinity Map

Figure 2 - Potentiometric Map

Appendix A - Cumulative Well Water Quality Data Results

Appendix B - Analytical Results

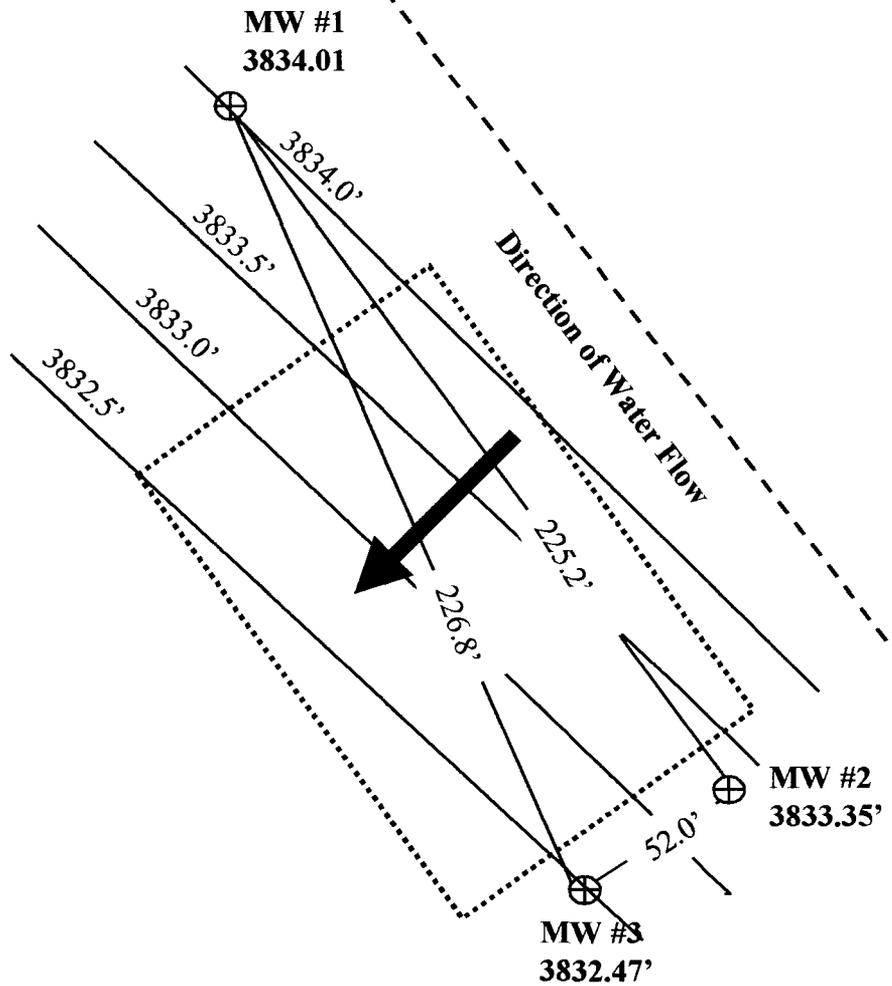
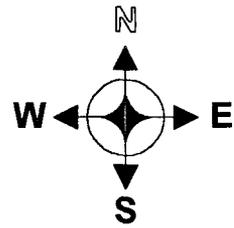
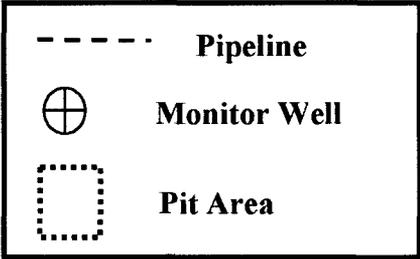
Figure 1
Vicinity Map



Name: LOVINGTON
 Date: 7/9/2003
 Scale: 1 inch equals 2222 feet

Location: 032° 55' 30.5" N 103° 20' 39.5" W
 Caption: Pro-Kem, Inc.
 Lovington Yard Monitor Wells
 Vicinity Map

Figure 2
Potentiometric Map



Section 15,
Township 16 South
Range 36 East, N.M.P.M.

1" = 50'
Contour Interval 0.5'
Gradient = 0.018



ProKem, Inc.
June 27, 2003

**Groundwater
Potentiometric Map**

**Safety & Environmental
Solutions, Inc.**
Hobbs, New Mexico

Appendix A
Cumulative Well Water Quality Data Results

ProKem, Inc. Cumulative Well Data

Monitor Well #1

CONTAMINANT	WQCC STANDARD	TEST DATE 1/8/99	TEST DATE 4/16/99	TEST DATE 12/8/99
Chloride	250.0ppm	56ppm	N/A	N/A
Carbon Tetrachloride	0.002ppm	.342ppm	.338ppm	.366ppm
Benzene	0.01ppm	<0.002ppm	<0.002ppm	<0.002ppm
Toluene	0.75ppm	<0.002ppm	<0.002ppm	<0.002ppm
E. Benzene	0.75ppm	<0.002ppm	<0.002ppm	<0.002ppm
Total Xylenes	0.62ppm	<0.006ppm	<0.006ppm	<0.006ppm
TPH	N/A	<1.0ppm	N/A	N/A

CONTAMINANT	WQCC STANDARD	TEST DATE 2/22/00	TEST DATE 6/16/00	TEST DATE 9/6/00
Chloride	250.0ppm	N/A	N/A	N/A
Carbon Tetrachloride	0.002ppm	.589ppm	0.144ppm	0.460ppm
Benzene	0.01ppm	<0.002ppm	<0.002ppm	<0.005ppm
Toluene	0.75ppm	<0.002ppm	<0.002ppm	<0.005ppm
E. Benzene	0.75ppm	<0.002ppm	<0.002ppm	<0.005ppm
Total Xylenes	0.62ppm	<0.006ppm	<0.004ppm	<0.015ppm
TPH	N/A	N/A	N/A	N/A

CONTAMINANT	WQCC STANDARD	TEST DATE 3/19/01	TEST DATE 6/25/02	TEST DATE 6/27/03
Chloride	250.0ppm	N/A	N/A	N/A
Carbon Tetrachloride	0.002ppm	0.817ppm	0.528ppm	0.263ppm
Benzene	0.01ppm	<0.005ppm	<0.005ppm	<0.005ppm
Toluene	0.75ppm	<0.005ppm	<0.005ppm	<0.005ppm
E. Benzene	0.75ppm	<0.005ppm	<0.005ppm	<0.005ppm
Total Xylenes	0.62ppm	<0.010ppm	<0.010ppm	<0.010ppm
TPH	N/A	N/A	N/A	N/A

Monitor Well #2

CONTAMINANT	WQCC STANDARD	TEST DATE 1/8/99	TEST DATE 4/16/99	TEST DATE 12/8/99
Chloride	250.0ppm	94ppm	N/A	N/A
Carbon Tetrachloride	0.002ppm	0.17ppm	0.15ppm	.008ppm
Benzene	0.01ppm	<0.002ppm	<0.002ppm	<0.002ppm
Toluene	0.75ppm	<0.002ppm	<0.002ppm	<0.002ppm
Ethyl Benzene	0.75ppm	<0.002ppm	<0.002ppm	<0.002ppm
Total Xylenes	0.62ppm	<0.006ppm	<0.006ppm	<0.006ppm
TPH	N/A	1.47ppm	N/A	N/A

CONTAMINANT	WQCC STANDARD	TEST DATE 2/22/00	TEST DATE 6/16/00	TEST DATE 9/6/00
Chloride	250.0ppm	N/A	N/A	N/A
Carbon Tetrachloride	0.002ppm	.354ppm	0.006ppm	<0.005ppm
Benzene	0.01ppm	<0.002ppm	<0.002ppm	<0.005ppm
Toluene	0.75ppm	<0.002ppm	<0.002ppm	<0.005ppm
Ethyl Benzene	0.75ppm	<0.002ppm	<0.002ppm	<0.005ppm
Total Xylenes	0.62ppm	<0.006ppm	<0.004ppm	<0.015ppm
TPH	N/A	N/A	N/A	N/A

CONTAMINANT	WQCC STANDARD	TEST DATE 3/19/01	TEST DATE 6/25/02	TEST DATE 6/27/03
Chloride	250.0ppm	N/A	N/A	N/A
Carbon Tetrachloride	0.002ppm	0.023ppm	0.022ppm	0.011ppm
Benzene	0.01ppm	<0.005ppm	<0.005ppm	<0.005ppm
Toluene	0.75ppm	<0.005ppm	<0.005ppm	<0.005ppm
Ethyl Benzene	0.75ppm	<0.005ppm	<0.005ppm	<0.005ppm
Total Xylenes	0.62ppm	<0.010ppm	<0.010ppm	<0.010ppm
TPH	N/A	N/A	N/A	N/A

Monitor Well #3

CONTAMINANT	WQCC STANDARD	TEST DATE 1/8/99	TEST DATE 4/16/99	TEST DATE 12/8/99
Chloride	250.0ppm	116ppm	N/A	N/A
Carbon Tetrachloride	0.002ppm	.111ppm	.109ppm	.353ppm
Benzene	0.01ppm	<0.002ppm	<0.002ppm	<0.002ppm
Toluene	0.75ppm	<0.002ppm	<0.002ppm	<0.002ppm
Ethyl Benzene	0.75ppm	<0.002ppm	<0.002ppm	<0.002ppm
Total Xylenes	0.62ppm	<0.006ppm	<0.006ppm	<0.006ppm
TPH	N/A	<1.0ppm	N/A	N/A

CONTAMINANT	WQCC STANDARD	TEST DATE 2/22/00	TEST DATE 6/16/00	TEST DATE 9/6/00
Chloride	250.0ppm	N/A	N/A	N/A
Carbon Tetrachloride	0.002ppm	.007ppm	0.438ppm	0.155ppm
Benzene	0.01ppm	<0.002ppm	<0.002ppm	<0.005ppm
Toluene	0.75ppm	<0.002ppm	<0.002ppm	<0.005ppm
Ethyl Benzene	0.75ppm	<0.002ppm	<0.002ppm	<0.005ppm
Total Xylenes	0.62ppm	<0.006ppm	<0.004ppm	<0.015ppm
TPH	N/A	N/A	N/A	N/A

CONTAMINANT	WQCC STANDARD	TEST DATE 3/19/01	TEST DATE 6/25/02	TEST DATE 6/27/03
Chloride	250.0ppm	N/A	N/A	N/A
Carbon Tetrachloride	0.002ppm	0.136ppm	0.115ppm	0.105ppm
Benzene	0.01ppm	<0.005ppm	<0.005ppm	<0.005ppm
Toluene	0.75ppm	<0.005ppm	<0.005ppm	<0.005ppm
Ethyl Benzene	0.75ppm	<0.005ppm	<0.005ppm	<0.005ppm
Total Xylenes	0.62ppm	<0.010ppm	<0.010ppm	<0.010ppm
TPH	N/A	N/A	N/A	N/A

Appendix B
Analytical Results



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 06/27/03
Reporting Date: 07/02/03
Project Number: PRO-01-001
Project Name: PRO-KEM
Project Location: LOVINGTON, NM
Lab Number: H7773-1
Sample ID: MW #1

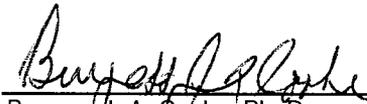
Analysis Date: 06/30/03
Sampling Date: 06/27/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

VOLATILES (mg/L)	Sample Result	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.263	<0.005	0.114	114	0.100
Toluene	<0.005	<0.005	0.109	109	0.100
Ethylbenzene	<0.005	<0.005	0.103	103	0.100
m,p-Xylene	<0.005	<0.005	0.199	99.5	0.200
o-Xylene	<0.005	<0.005	0.101	101	0.100

% RECOVERY

Dibromofluoromethane	87
Toluene-d8	89
Bromofluorobenzene	86

METHODS: EPA SW-846 8260/624


Burgess J. A. Cooke, Ph. D.

7/2/03
Date

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

ANALYTICAL RESULTS FOR
 SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
 ATTN: BOB ALLEN
 703 E. CLINTON, #103
 HOBBS, NM 88240
 FAX TO: (505) 393-4388

Receiving Date: 06/27/03
 Reporting Date: 07/02/03
 Project Number: PRO-01-001
 Project Name: PRO-KEM
 Project Location: LOVINGTON, NM
 Lab Number: H7773-2
 Sample ID: MW #2

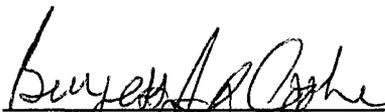
Analysis Date: 06/30/03
 Sampling Date: 06/27/03
 Sample Type: GROUNDWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

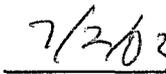
VOLATILES (mg/L)	Sample Result	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.011	<0.005	0.114	114	0.100
Toluene	<0.005	<0.005	0.109	109	0.100
Ethylbenzene	<0.005	<0.005	0.103	103	0.100
m,p-Xylene	<0.005	<0.005	0.199	99.5	0.200
o-Xylene	<0.005	<0.005	0.101	101	0.100

% RECOVERY

Dibromofluoromethane	100
Toluene-d8	98
Bromofluorobenzene	91

METHODS: EPA SW-846 8260/624


 Burgess J. A. Cooke, Ph. D.


 Date

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SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 06/27/03
Reporting Date: 07/02/03
Project Number: PRO-01-001
Project Name: PRO-KEM
Project Location: LOVINGTON, NM
Lab Number: H7773-3
Sample ID: MW #3

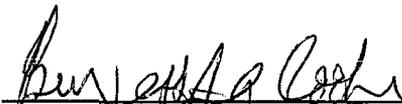
Analysis Date: 06/30/03
Sampling Date: 06/27/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

VOLATILES (mg/L)	Sample Result	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.105	<0.005	0.114	114	0.100
Toluene	<0.005	<0.005	0.109	109	0.100
Ethylbenzene	<0.005	<0.005	0.103	103	0.100
m,p-Xylene	<0.005	<0.005	0.199	99.5	0.200
o-Xylene	<0.005	<0.005	0.101	101	0.100

% RECOVERY

Dibromofluoromethane	80
Toluene-d8	84
Bromofluorobenzene	89

METHODS: EPA SW-846 8260/624


Burgess J. A. Cooke, Ph. D.


Date

