

GROUND WATER SAMPLING REPORTS

Baker Oil Tools
2800 West Marland
Hobbs, New Mexico
Project No. 60260-8-1332-04

RECEIVED

JUL 23 2001

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Annual Ground-Water Sampling Report

Prepared by:

Page & Kraemer Environmental Services
5635 Northwest Central Dr., Suite 100
Houston, Texas 77092
(713) 460-3233

May 1, 2000

Mr. William Olson, Hydrogeologist
State of New Mexico
Energy, Mineral and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

**First Quarter of 2000
GROUND-WATER SAMPLING EVENT**
Former Baker Oil Tools Facility
2800 West Marland
Hobbs, New Mexico
Project No. 60260-8-1332-04

Dear Mr. Olson:

Baker Oil Tools is submitting the first quarter of 2000 ground-water monitoring report in response to the NMOCD request of June 20, 1995 to provide quarterly monitoring data for ground water contamination in the direct vicinity of the former disposal pit on the property located at 2800 West Marland in Hobbs, New Mexico. The NMOCD requested this report discuss relevant background information, execution of services, laboratory analytical results, and a summary of our findings for the subject property.

1. BOT performed the first quarter monitoring event on March 29, 2000. During this quarterly monitoring event, the wells were gauged for depth, bailed and sampled. Monitoring tasks began at 10:30 a.m. (MT). Purging of the well was accomplished by hand bailing each well. The bailing of the wells during previous quarters of monitoring was performed using a low volume electric pump. The pump was not utilized during this quarter due to mechanical difficulties. Bailing and sampling of the wells was accomplished using dedicated 2" bailers. Monitoring wells MW-1, MW-2 and MW-3 were purged of three volumes of water and allowed to equalize prior to sampling. No sheen or free product was seen on the water bailed from these three wells. Water well WW-1 was sampled but not purged due to the depth of the water in the well. No sheen or free product was seen on the water bailed from this well. Monitoring well R-1 was purged of three volumes of water, allowed to equalize and sampled. A sheen was noticed on the initial bailer of liquid removed with a noticeable hydrocarbon odor of the water in this and subsequent bailers of water. Samples were collected from each well and shipped to Von Analytical Laboratory in Houston, Texas for analysis.
2. The passive skimmer in monitoring well R-1 was checked and no free hydrocarbon product was recovered. The type of skimmer installed was a ZORBO float type with a recovery canister. The skimmer was installed with the float/recovery portion of the skimmer at the water/air interface.

3. A summary of the laboratory analytical results of water quality sampling of the monitoring wells is provided in the attached Table 1A through 1E. This data is presented in tabular form showing the previous four monitoring events sampling results. A copy of the original laboratory analytical results is also attached. Positive results on naphthalene (122.1 µg/L) and 2-methylnaphthalene (97.5 µg/L) were detected in well R-1. No other samples yielded positive results.
4. Water level and well depth measurements were measured using an electronic water level indicator capable of determining water levels to within 0.01 foot. Table 2 provides cumulative ground water level measurements for the previous four monitoring events. Based on the explanation presented in the previous quarter report, WW-1 is not included in well depth measurements. R-1 was not gauged due to the possibility of contamination of the electronic water level indicator by the hydrocarbon present in the well. An updated ground water elevation map using the recent water table elevations of the ground water in the remaining monitoring wells is presented in Figure 1.

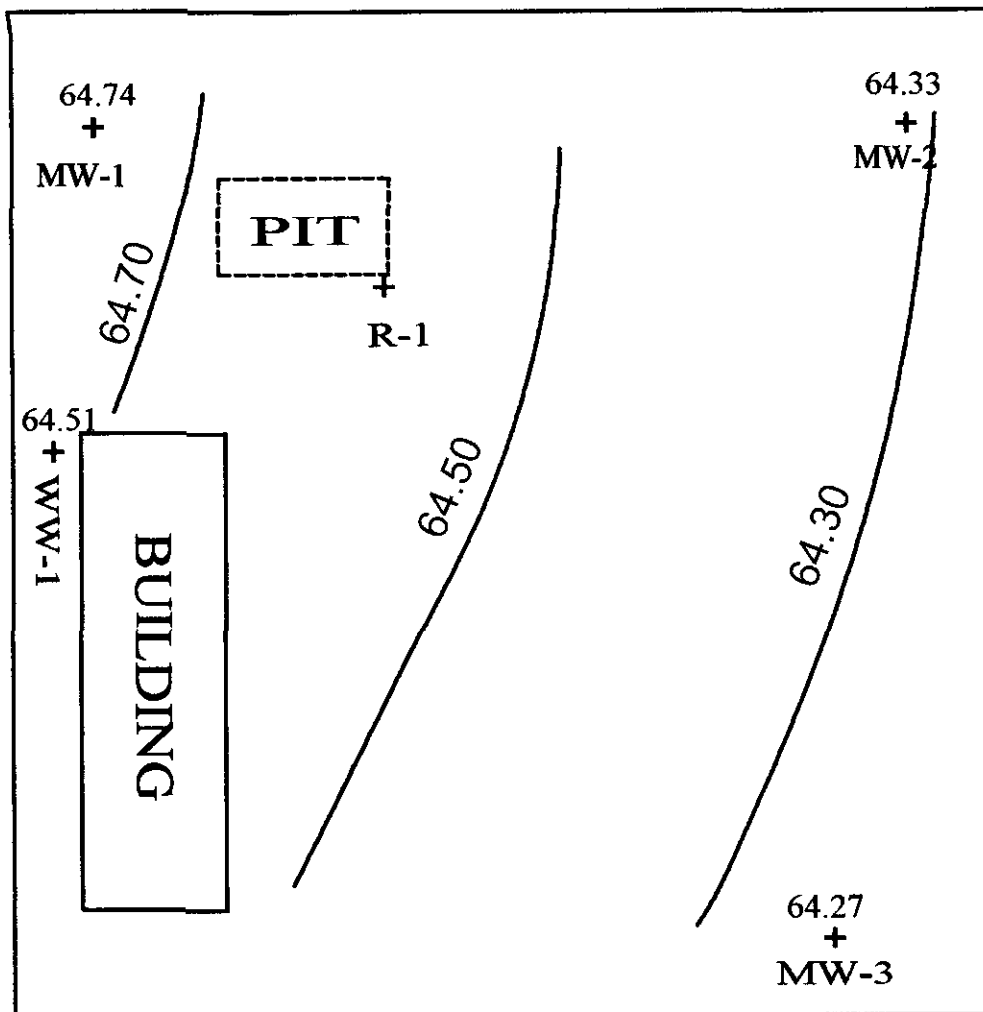
Baker Oil Tools proposed in the previous year to revise the submission frequency from quarterly to an annual report with each quarter a separate section of the report. Each section would contain all appropriate information obtained for the quarterly monitoring event. Please notify us if this report submission frequency change is acceptable.

If you have any questions or require additional information, please do not hesitate in contacting me at (713) 466-2445.

Sincerely,
For Baker Oil Tools



Reggie Kennedy
Health Safety and Environmental Affairs Director



Page and Kraemer Environmental Services, Inc.
Lafayette / Houston

Figure 1

Groundwater Elevations (QTR 1, 2000)

Baker Oil Tools
2800 W. Marland
Hobbs, NM

Prepared by TVS
scale 1 = 40' (approx.)
5/1/00

TABLE 1A
MW-1

	1st Quarter 3/26/99	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00
EPA 8020A					
Benzene	< 0.0050 ppm	< 0.0050 ppm	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l
Ethylbenzene	< 0.0050 ppm	< 0.0050 ppm	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l
Toluene	< 0.0050 ppm	< 0.0050 ppm	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l
Xylenes	< 0.0050 ppm	< 0.0050 ppm	< 0.003 mg/l	< 0.005 mg/l	< 0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	< 0.0050 ppm	< 0.0050 ppm	< 0.005 mg/l	< 0.005 mg/l	< 0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	< 0.01 mg/l	< 0.01 mg/l	NA	< 0.01 mg/l	< 0.01 mg/l
Naphthalene	< 0.01 mg/l	< 0.01 mg/l	NA	< 0.01 mg/l	< 0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1B
MW-2

	1st Quarter 3/25/99	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00
EPA 8020A					
Benzene	< 0.0050 ppm	< 0.0050 ppm	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l
Ethylbenzene	< 0.0050 ppm	< 0.0050 ppm	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l
Toluene	< 0.0050 ppm	< 0.0050 ppm	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l
Xylenes	< 0.0050 ppm	< 0.0050 ppm	< 0.003 mg/l	< 0.005 mg/l	< 0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	< 0.0050 ppm	< 0.0050 ppm	< 0.005 mg/l	< 0.005 mg/l	< 0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l
Naphthalene	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1C
MW-3

	1st Quarter 3/25/99	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00
EPA 8020A					
Benzene	< 0.0050	< 0.0050	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l
Ethylbenzene	< 0.0050	< 0.0050	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l
Toluene	< 0.0050	< 0.0050	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l
Xylenes	< 0.0050	< 0.0050	< 0.003 mg/l	< 0.005 mg/l	< 0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	< 0.0050 ppm	< 0.0050 ppm	< 0.005 mg/l	< 0.005 mg/l	< 0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	< 0.010 mg/l	< 0.010 mg/l	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l
Naphthalene	< 0.010 mg/l	< 0.010 mg/l	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1D
WW-1

	1st Quarter 3/28/99	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00
EPA 8020A					
Benzene	< 0.0050 ppm	< 0.0050 ppm	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	< 0.0050 ppm	< 0.0050 ppm	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	< 0.0050 ppm	< 0.0050 ppm	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	< 0.0050 ppm	< 0.0050 ppm	<0.003 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	< 0.0050 ppm	< 0.0050 ppm	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.010 mg/l	<0.010 mg/l	NA	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.010 mg/l	<0.010 mg/l	NA	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter check lab report for reason
BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1E
R-1

	1st Quarter 3/25/99	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00
EPA 8020A					
Benzene	N/A	N/A	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	N/A	N/A	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	N/A	N/A	0.002 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	N/A	N/A	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	N/A	N/A	0.002 mg/l	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	N/A	N/A	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	N/A	N/A	<0.01 mg/l	185.2 µg/L	97.5 µg/L
Naphthalene	N/A	N/A	<0.01 mg/l	117.3 µg/L	122.1 µg/L

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

Table 2
QUARTERLY CUMULATIVE GROUND-WATER ELEVATIONS

Monitoring Well No.	Well Depth (ft)	Top of PVC Casing Elevation (ft MSL)	Ground-water Level Elevation (ft MSL)				
			3/25/1999	6/24/1999	9/30/1999	12/21/1999	3/29/2000
MW-1	45.7	100.19	65.19	65.17	64.89	64.73	64.74
MW-2	45.0	99.56	64.88	64.76	64.46	64.51	64.33
MW-3	38.5	99.15	64.83	64.75	64.50	64.46	64.27
WW-1	125.0	99.52	65.12	64.01	64.79	64.96	64.51
R-1	48.0	100.03	*	64.83	64.83	64.63	*

**Von Analytical Laboratories**

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net

April 7, 2000

Mr. Tom Steinbeck
Page & Kraemer Environmental
P. O. Box 841006
Houston, TX 77284-1006

Reports:	BOT Hobbs Q1 2000
Date samples received:	March 30, 2000; 1352
VAL Lab Numbers:	V97-048 to V79-052
Client Sample Numbers:	MW-1 to WW-1

Dear Mr. Steinbeck:

We have completed the requested analyses and have presented those results in this report. We have also reported the quality assurance/quality control data for these samples.

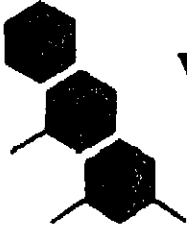
All raw data, spectra and log files shall remain on-file at VAL for a minimum of five years. Unused sample portions shall remain refrigerated at 4°C per EPA requirements for a minimum of 90 days for possible future analyses. After 90 days, we shall dispose of the samples using guidelines stated by state regulations.

The analytical results pertain only to the samples analyzed as received. Von Analytical Laboratories assumes no responsibility for any subsequent use or interpretation of the analytical results.

We at Von Analytical Laboratories are very pleased to have served you.

Sincerely,

Charles F. Bohnstedt, Ph.D.
Senior Analyst



Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net

Charles F. Bohnstedt
 Charles F. Bohnstedt, Ph.D.

Client: Page & Kraemer
 Submitted by: Mr. Tom Steinbeck
 Sample Set Identification: BOT Hobbs Q1 2000
 Date Received: March 30, 2000; 1352
 Date Samples Extracted by EPA 8270C: March 31, 2000
 Date Samples Analyzed by EPA 8270C: April 4, 2000

Client Sample No:	MW-1	MW-2	MW-3	R-1	WW-1
VAL Sample No.:	V97-048	V97-049	V97-050	V97-051	V97-052
Sample Type:	Water	Water	Water	Water	Water
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Naphthalene:	< 10	< 10	< 10	122.1	< 10
2-Methylnaphthalene:	< 10	< 10	< 10	97.5	< 10
% Surrogate Recovery					
Nitrobenzene-d8	87.7%	96.0%	93.4%	98.3%	88.1%

Client Sample No:

VAL Sample No.:

Sample Type:

Units:

Naphthalene:

2-Methylnaphthalene:

% Surrogate Recovery

Nitrobenzene-d8

for soils, µg/kg = ppb

for waters, µg/L = ppb



Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net

Charles F. Bohnstedt, Ph.D.

Client:	Page & Kraemer
Submitted by:	Mr. Tom Steinbeck
Sample Set Identification:	BOT Hobbs Q1 2000
Date collected:	March 29, 2000
Date Received:	March 30, 2000; 1352
Date Samples Analyzed by EPA 8021B:	March 31, 2000
Analyst:	C.F. Bohnstedt

Client Sample No:	MW-1	MW-2	MW-3	R-1	WW-1
VAL Sample No.:	V97-048	V97-049	V97-050	V97-051	V97-052
Sample Type:	Water	Water	Water	Water	Water
	-----	-----	-----	-----	-----
Total BTEX (ppm):	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Et-Benzene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Xylene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MTBE (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Quality Control Results

	Blank	Daily Calibration Check	Percent Recovery
	-----	-----	-----
Benzene (ppm):	< 0.005	0.0767	102%
Toluene (ppm):	< 0.005	0.0806	107%
Et-Benzene (ppm):	< 0.005	0.0783	104%
p & m-Xylene (ppm):	< 0.005	0.1520	101%
o-Xylene	< 0.005	0.0750	99%
MTBE (ppm):	< 0.005	0.0746	99%
% Surrogate Recovery	104%	97%	

for soils, ppm = mg/kg

for waters, ppm = mg/l

MTBE = Methyl tert-Butyl Ether

Von Analytical Laboratories 10801 Hammerly #250 Houston, Texas 77043 Office: (713) 827-0737 FAX: (713) 827-8733 Phone No: 713 460 3233 Fax No: 714 460 8288									
Relinquished by: (Signature)		Relinquished by: (Signature)		Relinquished by: (Signature)		Relinquished by: (Signature)			
Date: 3/30/00		Date: 3/30/00		Date: 3/30/00		Date: 3/30/00			
Time: 1:52		Time: 1:52		Time: 1:52		Time: 1:52			
Received by Laboratory: (Signature)		Received by Laboratory: (Signature)		Received by Laboratory: (Signature)		Received by Laboratory: (Signature)			
Project Name: 301 Hobbs Q1 2000		Project Name: 301 Hobbs Q1 2000		Project Name: 301 Hobbs Q1 2000		Project Name: 301 Hobbs Q1 2000			
Reports Sent to: Tom Stenbeck PO Box 841005 Houston, TX 77284		Reports Sent to: Tom Stenbeck PO Box 841005 Houston, TX 77284		Reports Sent to: Tom Stenbeck PO Box 841005 Houston, TX 77284		Reports Sent to: Tom Stenbeck PO Box 841005 Houston, TX 77284			
Project Location: 40665 NM		Project Location: 40665 NM		Project Location: 40665 NM		Project Location: 40665 NM			
P. O. / Project Number:		P. O. / Project Number:		P. O. / Project Number:		P. O. / Project Number:			
Sampler(s) Name: (Signature) Thomas L. Hunkeler		Sampler(s) Name: (Signature) Thomas L. Hunkeler		Sampler(s) Name: (Signature) Thomas L. Hunkeler		Sampler(s) Name: (Signature) Thomas L. Hunkeler			
Counter: Fed Ex		Counter: Fed Ex		Counter: Fed Ex		Counter: Fed Ex			
Date		Date		Date		Date			
Time		Time		Time		Time			
Received by: (Signature)		Received by: (Signature)		Received by: (Signature)		Received by: (Signature)			
1. MW-1		3/29		2:15		X			
2. MW-2		3/29		2:35		X			
3. MW-3		3/29		2:45		X			
4. R-1		3/29		1:45		X			
5. WW-1		3/29		2:05		X			
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
Remarks/Special Instructions:		Remarks/Special Instructions:		Remarks/Special Instructions:		Remarks/Special Instructions:			
Special Turnaround:		Special Turnaround:		Special Turnaround:		Special Turnaround:			
Laboratory Number		Laboratory Number		Laboratory Number		Laboratory Number			
47-050		47-050		47-050		47-050			
47-051		47-051		47-051		47-051			
47-052		47-052		47-052		47-052			

July 31, 2000

Mr. William Olson, Hydrogeologist
State of New Mexico
Energy, Mineral and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

**Second Quarter of 2000
GROUND-WATER SAMPLING EVENT**
Former Baker Oil Tools Facility
2800 West Marland
Hobbs, New Mexico
Project No. 60260-8-1332-04

Dear Mr. Olson:

Baker Oil Tools is submitting the second quarter of calendar year 2000 ground-water monitoring report in response to the NMOCD request of June 20, 1995 to provide quarterly monitoring data for ground water contamination in the direct vicinity of the former disposal pit on the Baker Oil Tools property located at 2800 West Marland in Hobbs, New Mexico. The NMOCD requested this report discuss relevant background information, execution of services, laboratory analytical results, and a summary of our findings for the subject property.

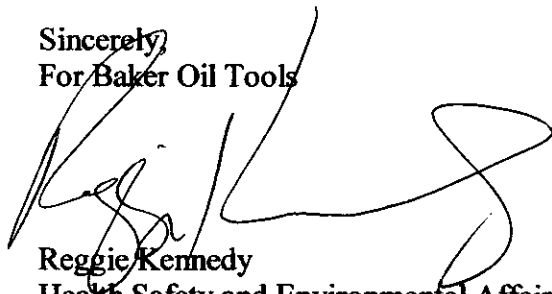
1. BOT performed the second quarter monitoring event on June 27, 2000. During this quarterly monitoring event, the wells were gauged for depth, bailed and sampled. Monitoring tasks began at 11:05 a.m. (MT). Purging of the well was accomplished by hand bailing each well. Bailing and sampling of the wells was accomplished using dedicated 2" bailers. Monitoring wells MW-1, MW-2 and MW-3 were purged of three volumes of water and allowed to equalize prior to sampling. No sheen or free product was seen on the water bailed from these three wells. Water well WW-1 was sampled but not purged due to the depth of the water in the well. No sheen or free product was seen on the water bailed from this well. Monitoring well R-1 was purged of three volumes of water, allowed to equalize and sampled. A sheen was noticed on the initial bailer of liquid removed with a noticeable but low hydrocarbon odor of the water in this and subsequent bailers of water. Samples were collected from each well and shipped to Von Analytical Laboratory in Houston, Texas for analysis.
2. The passive skimmer in monitoring well R-1 was checked and again no free hydrocarbon product was recovered. The type of skimmer installed was a ZORBO float type with a recovery canister. The skimmer was installed with the float/recovery portion of the skimmer at the water/air interface.
3. A summary of the laboratory analytical results of water quality sampling of the monitoring wells is provided in the attached Table 1A through 1E. This data is presented in tabular form showing the previous four monitoring events sampling

results. A copy of the original laboratory analytical results is also attached. Although no sheen or odor was noticed in MW-1, laboratory analysis detected naphthalene (23.1 µg/L) and 2-methylnaphthalene (15.9 µg/L). Monitoring well MW-1 is located in the northwest corner of the property. Positive results on naphthalene (136.6 µg/L) and 2-methylnaphthalene (84.3 µg/L) were also detected in well R-1. No other wells sampled yielded positive results.

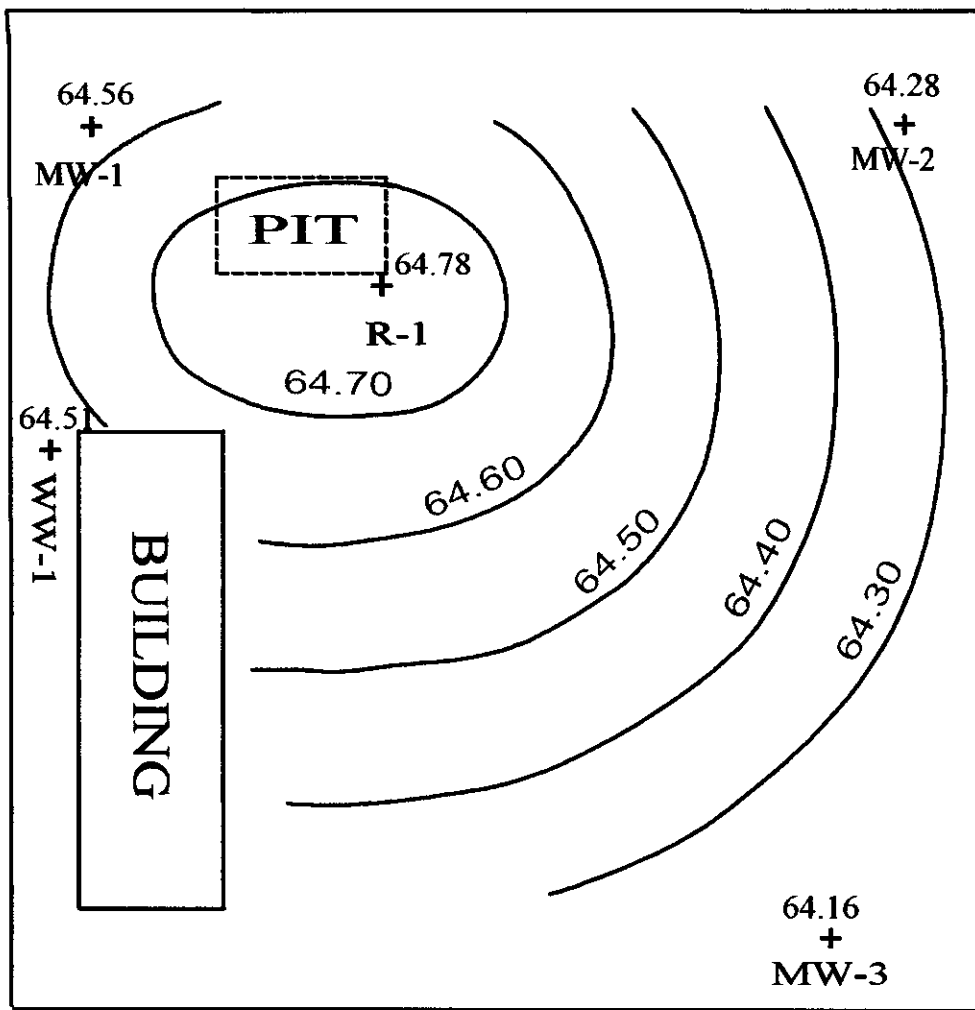
4. Water level and well depth measurements were measured using an electronic water level indicator capable of determining water levels to within 0.01 foot. Table 2 provides cumulative ground water level measurements for the previous four monitoring events. Based on the explanation presented in the previous quarter report, WW-1 is still excluded from water table mapping. R-1 was gauged during this sampling event. An updated ground water elevation map using the recent water table elevations of the ground water in the monitoring wells is presented in Figure 1. Based on the groundwater data in this report, there appears to be a doming of the water table in the vicinity of the old pit. Flow may be occurring from the pit to the northwest resulting in the detection of the contaminants in MW-1.

If you have any questions or require additional information, please do not hesitate in contacting me at (713) 466-2445.

Sincerely,
For Baker Oil Tools



Reggie Kennedy
Health Safety and Environmental Affairs Director



Page and Kraemer Environmental Services, Inc.
Lafayette / Houston

Figure 1
Groundwater Elevations (QTR 2, 2000)
Baker Oil Tools
2800 W. Marland
Hobbs, NM

Prepared by TVS
scale 1 = 40' (approx.)
7/31/00

TABLE 1A
MW-1

	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00
EPA 8020A					
Benzene	< 0.0050 ppm	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	< 0.0050 ppm	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	< 0.0050 ppm	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	< 0.0050 ppm	<0.003 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	< 0.0050 ppm	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	NA	<0.01mg/l	<0.01mg/l	15.9 µg/L
Naphthalene	<0.01 mg/l	NA	<0.01mg/l	<0.01mg/l	23.1 µg/L

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1B
MW-2

	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00
EPA 8020A					
Benzene	< 0.0050 ppm	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	< 0.0050 ppm	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	< 0.0050 ppm	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	< 0.0050 ppm	<0.003 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	< 0.0050 ppm	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1C
MW-3

	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00
EPA 8020A					
Benzene	< 0.0050	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	< 0.0050	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	< 0.0050	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	< 0.0050	<0.003 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	< 0.0050 ppm	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.010 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.010 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1D
WW-1

	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00
EPA 8020A					
Benzene	< 0.0050 ppm	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l	< 0.005 mg/l
Ethylbenzene	< 0.0050 ppm	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l	< 0.005 mg/l
Toluene	< 0.0050 ppm	< 0.001 mg/l	< 0.005 mg/l	< 0.005 mg/l	< 0.005 mg/l
Xylenes	< 0.0050 ppm	< 0.003 mg/l	< 0.005 mg/l	< 0.005 mg/l	< 0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	< 0.0050 ppm	< 0.005 mg/l	< 0.005 mg/l	< 0.005 mg/l	< 0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	< 0.010 mg/l	NA	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l
Naphthalene	< 0.010 mg/l	NA	< 0.01 mg/l	< 0.01 mg/l	< 0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter check lab report for reason
BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1E
R-1

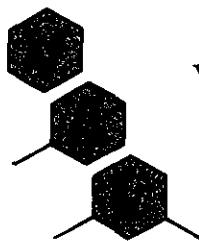
	2nd Quarter 6/24/99	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00
EPA 8020A					
Benzene	N/A	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	N/A	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	N/A	0.002 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	N/A	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	N/A	0.002 mg/l	BDL	BDL	BDL
EPA 8020B					
Methyl Tertiary Butyl Ether	N/A	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	N/A	<0.01 mg/l	185.2 µg/L	97.5 µg/L	84.3 µg/L
Naphthalene	N/A	<0.01 mg/l	117.3 µg/L	122.1 µg/L	138.6 µg/L

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

Table 2
QUARTERLY CUMULATIVE GROUND-WATER ELEVATIONS

Monitoring Well No.	Well Depth (ft)	Top of PVC Casing Elevation (ft MSL)	3/25/1999	6/24/1999	9/30/1999	12/21/1999	3/29/2000	6/27/2000
MW-1	45.7	100.19	65.19	65.17	64.89	64.73	64.74	64.56
MW-2	45.0	99.56	64.88	64.76	64.46	64.51	64.33	64.28
MW-3	38.5	99.15	64.83	64.75	64.50	64.46	64.27	64.16
WW-1	125.0	99.52	65.12	64.01	64.79	64.96	64.51	64.11
R-1	48.0	100.03	*	64.83	64.83	64.63	*	64.78



Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043
P.O. Box 841624, Houston, TX 77284-1624
Ph. (713) 827-0737 • Fax (713) 827-8733
email: cfb@flash.net

July 20, 2000

Mr. Tom Stenbeck

Page & Kraemer Environmental
P. O. Box 841005
Houston, TX 77284-1005

Report:	BOT Hobbs
Date samples received:	June 28, 2000; 1100
VAL Lab Numbers:	V97-058 to V97-062
Client Sample Numbers:	MW-1 to WW-1

Dear Mr. Stenbeck:

We have completed the requested analyses and have presented those results in this report. We have also reported the quality assurance/quality control data for these samples.

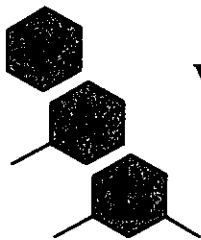
All raw data, spectra and log files shall remain on-file at VAL for a minimum of five years. Unused sample portions shall remain refrigerated at 4°C per EPA requirements for a minimum of 90 days for possible future analyses. After 90 days, we shall dispose of the samples using guidelines stated by state regulations.

The analytical results pertain only to the samples analyzed as received. Von Analytical Laboratories assumes no responsibility for any subsequent use or interpretation of the analytical results.

We at Von Analytical Laboratories are very pleased to have served you.

Sincerely,

Charles F. Bohnstedt, Ph.D.
Senior Analyst



Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net

Charles F. Bohnstedt, Ph.D.

Client:	Page & Kraemer
Submitted by:	Mr. Tom Steinbeck
Sample Set Identification:	BOT Hobbs
Date Received:	June 28, 2000; 1100
Date Samples Extracted by EPA 8270C:	June 30, 2000
Date Samples Analyzed by EPA 8270C:	July 11, 2000

Client Sample No:	MW-1	MW-2	MW-3	R-1	WW-1
VAL Sample No.:	V97-058	V97-059	V97-060	V97-061	V97-062
Sample Type:	Water	Water	Water	Water	Water
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	-----	-----	-----	-----	-----
Naphthalene:	23.1	< 10	< 10	138.6	< 10
2-Methylnaphthalene:	15.9	< 10	< 10	84.3	< 10
<u>% Surrogate Recovery</u>					
Nitrobenzene-d8	78.8%	84.0%	86.8%	107.3%	105.1%

Client Sample No:

VAL Sample No.:

Sample Type:

Units:

Naphthalene:

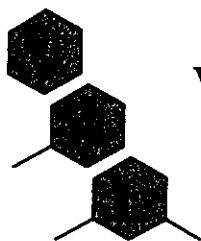
2-Methylnaphthalene:

% Surrogate Recovery

Nitrobenzene-d8

for soils, µg/kg = ppb

for waters, µg/L = ppb



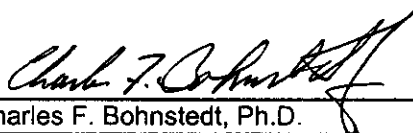
Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net


Charles F. Bohnstedt, Ph.D.

Client:	Page & Kraemer
Report to:	T. Stenbeck
Sample Set Identification:	BOT Hobbs
Date Received:	June 28, 2000; 1100
Date Samples Analyzed by EPA 8021B:	June 30, 2000

Client Sample No:	MW-1	MW-2	MW-3	R-1	WW-1
VAL Sample No.:	B64-058	B64-059	B64-060	B64-061	B64-062
Sample Type:	Soil	Soil	Soil	Soil	Soil
	-----	-----	-----	-----	-----
Total BTEX (ppm):	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Et-Benzene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Xylene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MTBE (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

	Quality Control Results		
	Blank	Daily Calibration Check	Percent Recovery
	-----	-----	-----
Benzene (ppm):	< 0.005	0.0721	96%
Toluene (ppm):	< 0.005	0.0664	88%
Et-Benzene (ppm):	< 0.005	0.0686	91%
p & m-Xylene (ppm):	< 0.005	0.1490	99%
o-Xylene	< 0.005	0.0739	98%
MTBE (ppm):	< 0.005	0.0750	97%
% Surrogate Recovery	103%	97%	

for soils, ppm = mg/kg

for waters, ppm = mg/l

MTBE = Methyl tert-Butyl Ether

October 24, 2000

Mr. William Olson, Hydrogeologist
State of New Mexico
Energy, Mineral and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

**Third Quarter of 2000
GROUND-WATER SAMPLING EVENT**
Former Baker Oil Tools Facility
2800 West Marland
Hobbs, New Mexico
Project No. 60260-8-1332-04

Dear Mr. Olson:

Baker Oil Tools is submitting the third quarter of calendar year 2000 ground-water monitoring report in response to the NMOCD request of June 20, 1995 to provide quarterly monitoring data for ground water contamination in the direct vicinity of the former disposal pit on the Baker Oil Tools property located at 2800 West Marland in Hobbs, New Mexico. The NMOCD requested this report discuss relevant background information, execution of services, laboratory analytical results, and a summary of our findings for the subject property.

1. BOT performed the third quarter monitoring event on September 27, 2000. During this quarterly monitoring event, the wells were gauged for depth, bailed and sampled. Monitoring tasks began at 10:30 a.m. (MT). Purging of the well was accomplished by hand bailing each well. Sampling of the wells was accomplished using dedicated 2" bailers. Monitoring wells MW-1, MW-2 and MW-3 were purged of three volumes of water and allowed to equalize prior to sampling. No sheen or free product was seen on the water bailed from these three wells. Water well WW-1 was sampled but not purged due to the depth of the water in the well. No sheen or free product was seen on the water bailed from this well. Monitoring well R-1 was purged of three volumes of water, allowed to equalize and sampled. A sheen was noticed on the initial bailer of liquid removed with a noticeable but low hydrocarbon odor of the water in this and subsequent bailers of water. Samples were collected from each well and shipped to Von Analytical Laboratory in Houston, Texas for analysis.
2. The passive skimmer in monitoring well R-1 was checked and again no free hydrocarbon product was recovered. The passive skimmer has recovered no free product since installation. The skimmer was removed for one quarter to evaluate if free product would move into the well when the borehole was open. If no free

product is detected in upcoming monitoring episodes, the skimmer will remain out of the well. The skimmer will be replaced once free product is noticed in this well. The type of skimmer was a ZORBO float type with a recovery canister. The skimmer was previously installed with the float/recovery portion of the skimmer at the water/air interface.

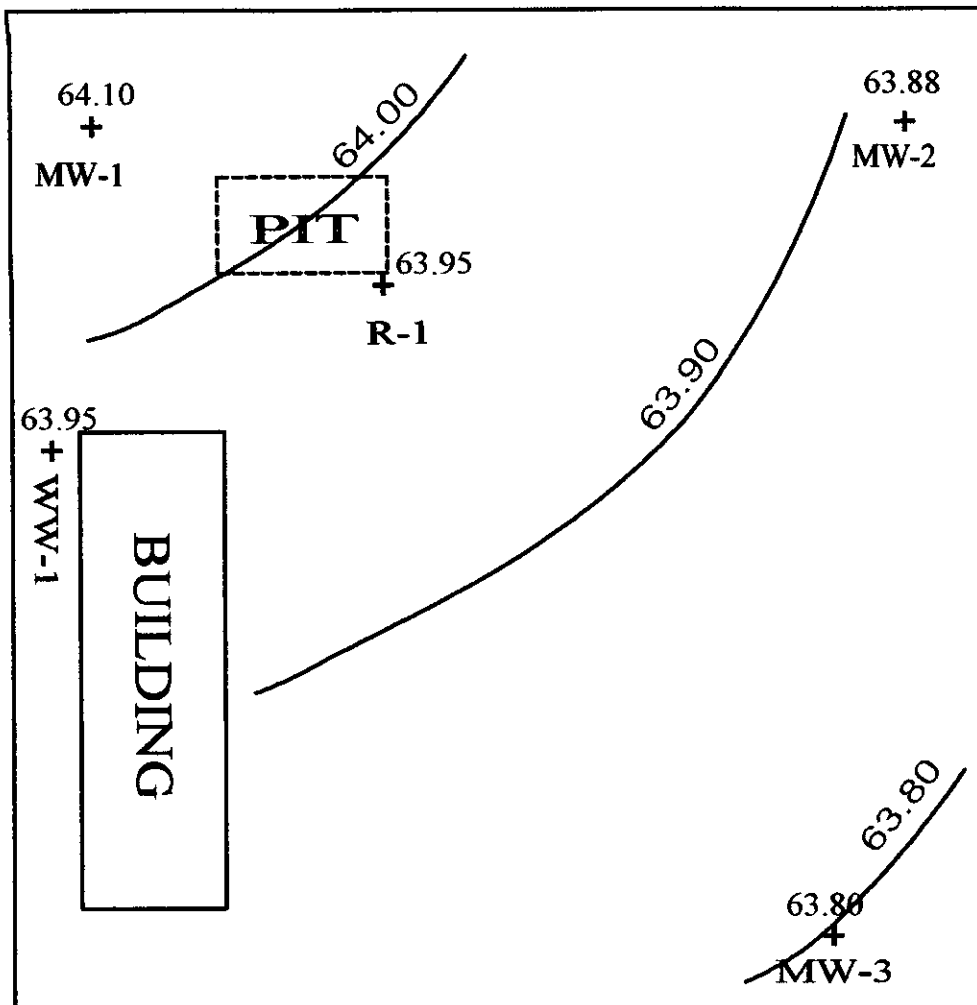
3. A summary of the laboratory analytical results of water quality sampling of the monitoring wells is provided in the attached Table 1A through 1E. This data is presented in tabular form showing the previous four monitoring events sampling results. A copy of the original laboratory analytical results is also attached. Laboratory analysis indicated no naphthalene or 2-methylnaphthalene present in MW-1 as had been found in the previous quarter. Monitoring well MW-1 is located in the northwest corner of the property. Positive results on naphthalene (164.2 µg/L) and 2-methylnaphthalene (73.1 µg/L) were detected in well R-1. Analysis of the sample from monitoring well MW-3 indicated the presence of MTBE (0.0382 ppm). There is no source for MTBE from the Baker property so this material must be sourced from offsite.
4. Water level and well depth measurements were measured using an electronic water level indicator capable of determining water levels to within 0.01 foot. Table 2 provides cumulative ground water level measurements for the previous four monitoring events. Based on the explanation presented in a previous report, WW-1 is still excluded from water table mapping. R-1 was gauged during this sampling event. An updated ground water elevation map using the recent water table elevations of the ground water in the monitoring wells is presented in Figure 1. Based on the groundwater data in this report, the doming which appeared in the previous quarter appears to have flattened. The map indicates a low gradient flow to the southeast.

If you have any questions or require additional information, please do not hesitate in contacting me at (713) 466-2445.

Sincerely,
For Baker Oil Tools



Reggie Kennedy
Health Safety and Environmental Affairs Director



Page and Kraemer Environmental Services, Inc.
Lafayette / Houston

Figure 1

Groundwater Elevations (QTR 3, 2000)

Baker Oil Tools
2800 W. Marland
Hobbs, NM

Prepared by TVS
scale 1" = 40' (approx.)
10/24/00

TABLE 1A
MW-1

	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00
EPA 8020A					
Benzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.003 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	NA	<0.01mg/l	<0.01mg/l	15.9 µg/L	<0.01 mg/l
Naphthalene	NA	<0.01mg/l	<0.01mg/l	23.1 µg/L	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1B
MW-2

	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00
EPA 8020A					
Benzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.003 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1C
MV-3

	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00
EPA 8020A					
Benzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.003 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	0.0382 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1D
WW-1

	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00
EPA 8020A					
Benzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.003 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	NA	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	NA	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter check lab report for reason
BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1E
R-1

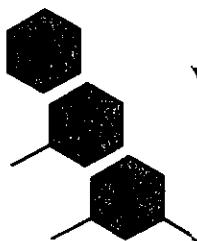
	3rd Quarter 9/30/99	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00
EPA 8020A					
Benzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	0.002 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.001 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	0.002 mg/l	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	185.2 µg/L	97.5 µg/L	84.3 µg/L	73.1 µg/L
Naphthalene	<0.01 mg/l	117.3 µg/L	122.1 µg/L	138.6 µg/L	164.2 µg/L

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

Table 2
QUARTERLY CUMULATIVE GROUND-WATER ELEVATIONS

Monitoring Well No.	Well Depth (ft)	Top of PVC Casing Elevation (ft MSL)	Ground-water Level Elevation (ft MSL)						
			3/25/1999	6/24/1999	9/30/1999	12/21/1999	3/29/2000	6/27/2000	9/27/2000
MW-1	45.7	100.19	65.19	65.17	64.89	64.73	64.74	64.56	64.10
MW-2	45.0	99.56	64.88	64.76	64.46	64.51	64.33	64.28	63.88
MW-3	38.5	99.15	64.83	64.75	64.50	64.48	64.27	64.16	63.80
WW-1	125.0	99.52	65.12	64.01	64.79	64.96	64.51	64.11	63.95
R-1	48.0	100.03	*	64.83	64.83	64.63	*	64.78	63.95



Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net

October 5, 2000

Mr. Tom Stenbeck

Page & Kraemer Environmental

P. O. Box 841005

Houston, TX 77284-1005

Report:

Hobbs Q3

Date samples received:

September 28, 2000; 1055

VAL Lab Numbers:

V97-070 to V97-074

Client Sample Numbers:

MW-1 to WW-1

Dear Mr. Stenbeck:

We have completed the requested analyses and have presented those results in this report. We have also reported the quality assurance/quality control data for these samples.

All raw data, spectra and log files shall remain on-file at VAL for a minimum of five years. Unused sample portions shall remain refrigerated at 4°C per EPA requirements for a minimum of 90 days for possible future analyses. After 90 days, we shall dispose of the samples using guidelines stated by state regulations.

The analytical results pertain only to the samples analyzed as received. Von Analytical Laboratories assumes no responsibility for any subsequent use or interpretation of the analytical results.

We at Von Analytical Laboratories are very pleased to have served you.

Sincerely,

Charles F. Bohnstedt, Ph.D.
Senior Analyst



Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net

Charles F. Bohnstedt, Ph.D.

Client:	Page & Kraemer
Submitted by:	Mr. Tom Steinbeck
Sample Set Identification:	BOT Hobbs
Date Received:	September 28, 2000; 1055
Date Samples Extracted by EPA 8270C:	October 2-3, 2000
Date Samples Analyzed by EPA 8270C:	October 4, 2000

Client Sample No:	MW-1	MW-2	MW-3	R-1	WW-1
VAL Sample No.:	V97-070	V97-071	V97-072	V97-073	V97-074
Sample Type:	Water	Water	Water	Water	Water
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	-----	-----	-----	-----	-----
Naphthalene:	< 10	< 10	< 10	164.2	< 10
2-Methylnaphthalene:	< 10	< 10	< 10	73.1	< 10
<u>% Surrogate Recovery</u>					
Nitrobenzene-d8	104.9%	106.0%	80.7%	104.7%	96.8%

Client Sample No:

VAL Sample No.:

Sample Type:

Units:

Naphthalene:

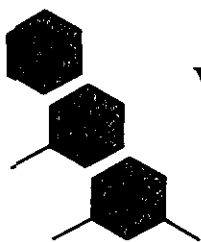
2-Methylnaphthalene:

% Surrogate Recovery

Nitrobenzene-d8

for soils, µg/kg = ppb

for waters, µg/L = ppb



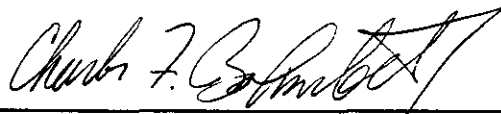
Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net


Charles F. Bohnstedt, Ph.D.

Client:	Page & Kraemer Environmental
Report to:	Tom Stenbeck
Sample Set Identification:	Hobbs Q3
Date Received:	September 28, 2000; 1055
Date Samples Analyzed by EPA 8021B:	November 28-29, 2000
Analyst:	C.F. Bohnstedt

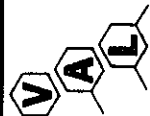
Client Sample No:	MW-1	MW-2	MW-3	R-1	WW-1
VAL Sample No.:	V97-070	V97-071	V97-072	V97-073	V97-074
Sample Type:	Water	Water	Water	Water	Water
	-----	-----	-----	-----	-----
Total BTEX (ppm):	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Et-Benzene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Xylene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MTBE (ppm):	< 0.005	< 0.005	0.0382	< 0.005	< 0.005

	Quality Control Results		
	Blank	Daily Calibration Check	Percent Recovery
	-----	-----	-----
Benzene (ppm):	< 0.005	0.0766	102%
Toluene (ppm):	< 0.005	0.0763	102%
Et-Benzene (ppm):	< 0.005	0.0693	92%
p & m-Xylene (ppm):	< 0.005	0.1550	103%
o-Xylene	< 0.005	0.0723	96%
MTBE (ppm):	< 0.005	0.0771	100%
% Surrogate Recovery	101%	108%	

for soils, ppm = mg/kg

for waters, ppm = mg/l

MTBE = Methyl tert-Butyl Ether



Von Analytical Laboratories
10801 Hammerly #250
Houston, Texas 77043
Office: (713) 827-0737 FAX: (713) 827-8733

Company:

Page + Kruemer

Phone No: 713 460 3233

Fax No: 713 460 8298

Reports Sent to:

Tom Stenbeck

Project Location:

Project Name:

Hobbs Q3

P. O./Project Number:

Sampler(s) Name: (Signature)

Thomas V. Stenbeck

Courier:

Sampling

Field Sample ID

Date

Time

Relinquished by: (Signature)
Date: 9/27
Time: 12:50P

Relinquished by: (Signature)
Date: 9/28
Time: 1055

Relinquished by: (Signature)
Date: _____
Time: _____
Received by Laboratory: (Signature):

Received by: (Signature):
Received by: (Signature):
Received by Laboratory: (Signature):

Remarks/Special Instructions:

Special Turnaround:

Request for Analysis

Naphthalene 2-methyl/naphthalene
BTEX, MTBE

Matrix	Composite	Grab Sample	Haz. Sample (Y/N)	# of Containers
	Other	Oil	Sludge	Soil
	Water			

Laboratory Number
V97-070
V97-071
V97-072
V97-073
V97-074

January 5, 2001

Mr. William Olson, Hydrogeologist
State of New Mexico
Energy, Mineral and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

**Fourth Quarter of 2000
GROUND-WATER SAMPLING EVENT**
Former Baker Oil Tools Facility
2800 West Marland
Hobbs, New Mexico
Project No. 60260-8-1332-04

Dear Mr. Olson:

Baker Oil Tools is submitting the fourth quarter of calendar year 2000 ground-water monitoring report in response to the NMOCD request of June 20, 1995 to provide quarterly monitoring data for ground water contamination in the direct vicinity of the former disposal pit on the Baker Oil Tools property located at 2800 West Marland in Hobbs, New Mexico. The NMOCD requested this report discuss relevant background information, execution of services, laboratory analytical results, and a summary of our findings for the subject property.

1. BOT performed the fourth quarter monitoring event on December 5, 2000. During this quarterly monitoring event, the wells were gauged for depth, bailed and sampled. Monitoring tasks began at 10:30 a.m. (MT). Purging of the well was accomplished by hand bailing each well. Sampling of the wells was accomplished using dedicated 2" bailers. Monitoring wells MW-1, MW-2 and MW-3 were purged of three volumes of water and allowed to equalize prior to sampling. No sheen or free product was seen on the water bailed from these three wells. Water well WW-1 was sampled but not purged due to the depth of the water in the well. No sheen or free product was seen on the water bailed from this well. Monitoring well R-1 was purged of three volumes of water, allowed to equalize and sampled. A very slight sheen was noticed on the initial bailer of liquid removed with a noticeable but low hydrocarbon odor of the water in this and subsequent bailers of water. Samples were collected from each well and shipped to Von Analytical Laboratory in Houston, Texas for analysis.
2. The passive skimmer in monitoring well R-1 was not replaced after removal last quarter. With the very slight sheen in R-1 it was not deemed necessary to replace the passive skimmer since the skimmer has not recovered any hydrocarbon since being placed in the well. As stated in the previous quarterly reporting the passive skimmer

will remain out of the well until more than a sheen of free product is noted again in well R-1.

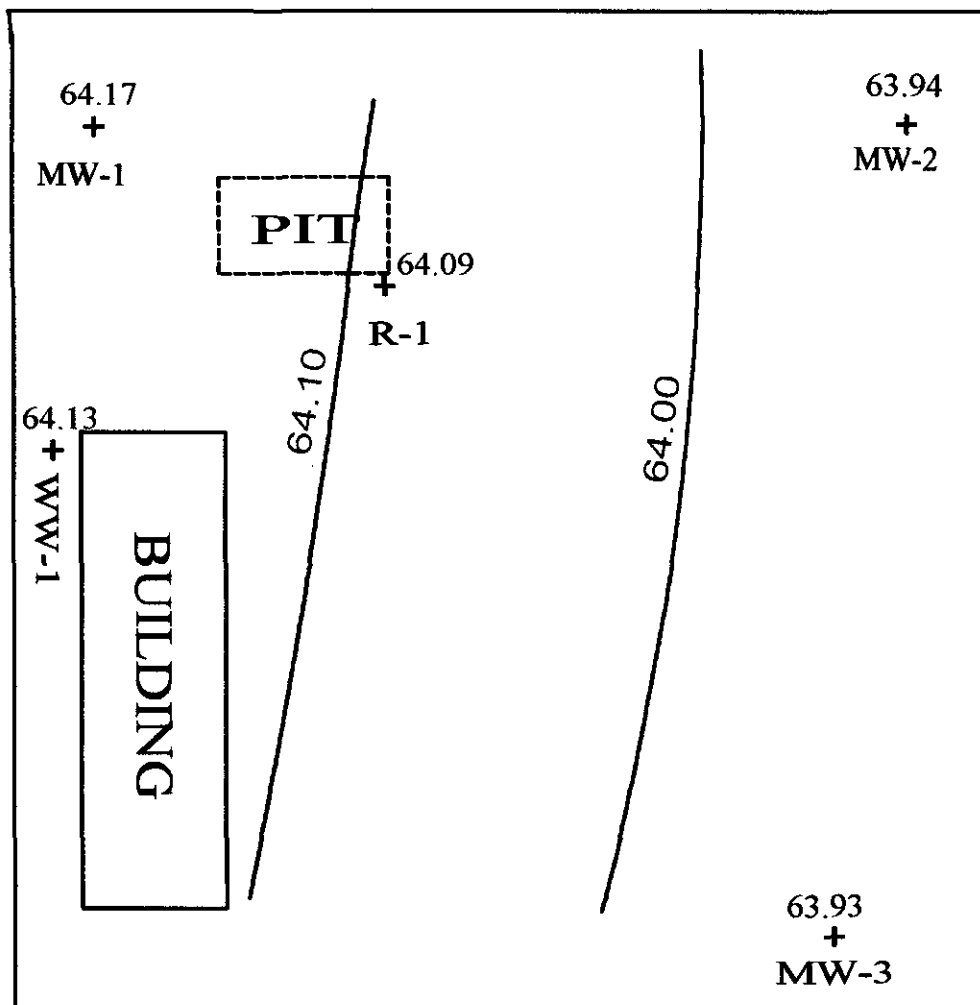
3. A summary of the laboratory analytical results of water quality sampling of the monitoring wells is provided in the attached Table 1A through 1E. This data is presented in tabular form showing the previous four monitoring events sampling results. A copy of the original laboratory analytical results is also attached. The only positive result for naphthalene (21.4 µg/L) was detected in well R-1. No 2-methylnaphthalene was detected in the well this time. Analysis of the sample from monitoring well MW-3 again indicated the presence of MTBE (0.0357 ppm). There is no source for MTBE from the Baker property so this material must be sourced from offsite.
4. Water level and well depth measurements were measured using an electronic water level indicator capable of determining water levels to within 0.01 foot. Table 2 provides cumulative ground water level measurements for the previous four monitoring events. Based on the explanation presented in a previous report, WW-1 is still excluded from water table mapping. R-1 was gauged during this sampling event. An updated ground water elevation map using the recent water table elevations of the ground water in the monitoring wells is presented in Figure 1. The map indicates a low gradient flow to the southeast.

If you have any questions or require additional information, please do not hesitate in contacting me at (713) 466-2445.

Sincerely,
For Baker Oil Tools



Reggie Kennedy, Director
Health Safety and Environmental Affairs



Page and Kraemer Environmental Services, Inc.
Lafayette / Houston

Figure 1
Groundwater Elevations (QTR 4, 2000)
Baker Oil Tools
2800 W. Marland
Hobbs, NM

Prepared by TVS
scale 1 = 40' (approx.)
1/5/01

TABLE 1A
MW-1

	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/00
EPA 8020A					
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01mg/l	<0.01mg/l	15.9 µg/L	<0.01 mg/l	<0.01mg/l
Naphthalene	<0.01mg/l	<0.01mg/l	23.1 µg/L	<0.01 mg/l	<0.01mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1B
MW-2

	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/00
EPA 8020A					
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1C
MW-3

	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/01
EPA 8020A					
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	0.0382 mg/l	0.0357 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1D
WW-1

	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/00
EPA 8020A					
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter check lab report for reason
BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1E
R-1

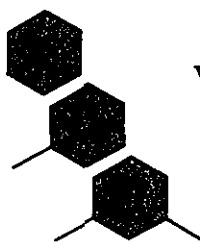
	4th Quarter 12/21/99	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/21/99
EPA 8020A					
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l
EPA 8270B					
2-Methylnaphthalene	185.2 µg/L	97.5 µg/L	84.3 µg/L	73.1 µg/L	<10 µg/L
Naphthalene	117.3 µg/L	122.1 µg/L	138.6 µg/L	164.2 µg/L	21 µg/L

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

Table 2
QUARTERLY CUMULATIVE GROUND-WATER ELEVATIONS

Monitoring Well No.	Well Depth (ft)	Top of PVC Casing Elevation (ft MSL)	Ground-water Level Elevation (ft MSL)							
			06/24/1999	09/30/1999	12/21/1999	03/29/2000	06/27/2000	09/27/2000	12/05/2000	
MW-1	45.7	100.19	65.17	64.89	64.73	64.74	64.56	64.10	64.17	
MW-2	45.0	98.56	64.76	64.46	64.51	64.33	64.28	63.88	63.94	
MW-3	38.5	98.15	64.75	64.50	64.46	64.27	64.16	63.80	63.93	
WW-1	125.0	99.52	64.01	64.79	64.96	64.51	64.11	63.95	64.13	
R-1	48.0	100.03	64.83	64.83	64.63	*	64.78	63.95	64.09	



Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net

December 8, 2000

Mr. Tom Stenbeck

Page & Kraemer Environmental

P. O. Box 841005

Houston, TX 77284-1005

Report:

Date samples received:

VAL Lab Numbers:

Client Sample Numbers:

BOT Hobbs

December 6, 2000; 1130

C64-101 to C64-105

MW-1 to R-1

Dear Mr. Stenbeck:

We have completed the requested analyses and have presented those results in this report. We have also reported the quality assurance/quality control data for these samples.

All raw data, spectra and log files shall remain on-file at VAL for a minimum of five years. Unused sample portions shall remain refrigerated at 4°C per EPA requirements for a minimum of 90 days for possible future analyses. After 90 days, we shall dispose of the samples using guidelines stated by state regulations.

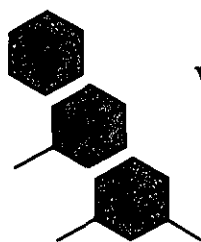
The analytical results pertain only to the samples analyzed as received. Von Analytical Laboratories assumes no responsibility for any subsequent use or interpretation of the analytical results.

We at Von Analytical Laboratories are very pleased to have served you.

Sincerely,

Charles F. Bohnstedt, Ph.D.

Senior Analyst



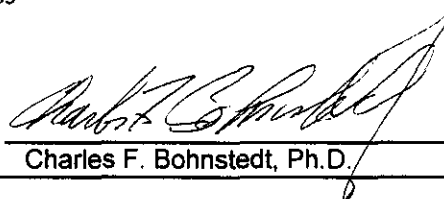
Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net


Charles F. Bohnstedt, Ph.D.

Client:	Page & Kraemer
Report to:	Tom Stenbeck
Sample Set Identification:	BOT Hobbs
Date Received:	December 6, 2000; 1130
Date Samples Analyzed by EPA 8021B:	December 6, 2000
Analyst:	C.F. Bohnstedt

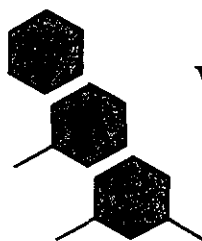
Client Sample No:	MW-1	MW-2	MW-3	WW-1	R-1
VAL Sample No.:	C64-101	C64-102	C64-103	C64-104	C64-105
Sample Type:	Water	Water	Water	Water	Water
Total BTEX (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Et-Benzene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Xylene (ppm):	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MTBE (ppm):	< 0.005	< 0.005	0.0357	< 0.005	< 0.005

	Quality Control Results		
	Blank	Daily Calibration Check	Percent Recovery
Benzene (ppm):	< 0.005	0.0718	95%
Toluene (ppm):	< 0.005	0.0733	98%
Et-Benzene (ppm):	< 0.005	0.0739	98%
p & m-Xylene (ppm):	< 0.005	0.1497	100%
o-Xylene	< 0.005	0.0746	99%
MTBE (ppm):	< 0.005	0.0705	91%
% Surrogate Recovery	97%	92%	

for soils, ppm = mg/kg

for waters, ppm = mg/l

MTBE = Methyl tert-Butyl Ether



Von Analytical Laboratories

10801 Hammerly, #250, Houston, TX 77043

P.O. Box 841624, Houston, TX 77284-1624

Ph. (713) 827-0737 • Fax (713) 827-8733

email: cfb@flash.net

Charles F. Bohnstedt, Ph.D.

Client: Page & Kraemer
 Samples Submitted by: Tom Stenbeck
 Project: BOT Hobbs
 Date/Time Samples Received: December 6, 2000; 1130
 BNA Analytical Method: EPA SW-846, Method 8270C
 Date Analyzed: December 6, 2000 Extracted / December 7, 2000 Analyzed

Client Sample ID:	MW-1	MW-2	MW-3	WW-1	R-1
VAL Sample ID:	C64-101	C64-102	C64-103	C64-104	C64-105
Sample Type:	Water	Water	Water	Water	Water
Compound	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Naphthalene	< 10	< 10	< 10	< 10	21.4
2-methylnaphthalene	< 10	< 10	< 10	< 10	< 10

Surrogate Standards

Nitrobenzene-d5 (SS)	65.6%	70.3%	54.0%	60.3%	73.4%
----------------------	-------	-------	-------	-------	-------

1R43

Baker Oil Tools
Hobbs, New Mexico
Groundwater Sampling
Calendar Year 2004
NMOCD Project # 60260-8-1332-04

Prepared for:
Baker Oil Tools
9100 Emmott Road
Houston, Texas

RECEIVED
JUL 02 2004
Oil Conservation Division
Environmental Bureau

Prepared by:
Stenbeck & Associates, Inc.
PO Box 841005
Houston, Texas
(281)345-2340

June 14, 2004

Mr. William Olson, Hydrologist
State of New Mexico
Energy, Mineral and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED

JUL 02 2004

Oil Conservation Division
Environmental Bureau

Annual Sampling 2004
GROUND-WATER SAMPLING EVENT

Former Baker Oil Tools Facility
2800 West Marland
Hobbs, New Mexico
Project No. 60260-8-1332-04

Dear Mr. Olson:

Baker Oil Tools performed sampling at the Hobbs, New Mexico on April 6, 2004. The NMOCD had been notified of a sampling delay by telephone. The sampling is being performed in response to the NMOCD request of June 20, 1995 to provide quarterly monitoring data for ground water contamination in the direct vicinity of the former disposal pit on the Baker Oil Tools property located at 2800 West Marland in Hobbs, New Mexico. The quarterly schedule was changed to annual monitoring beginning in 2001 after additional correspondence between Baker Oil Tools and the State of New Mexico. The NMOCD requested this report discuss relevant background information, execution of services, laboratory analytical results, and a summary of our findings for the subject property.

1. BOT performed the monitoring event on April 6, 2004. During this monitoring event, the wells were gauged for depth, purged and sampled. Monitoring tasks began at 2:30 p.m. (MT). Purging of the wells was accomplished by bailing with a small electric pump placed in each well. Sampling of the wells was accomplished using dedicated 2" bailers. Monitoring wells MW-1, MW-2 and MW-3 were purged of three volumes of water and allowed to equalize prior to sampling. No sheen or free product was seen on the water bailed from these three wells. Water well WW-1 was sampled but not purged due to the depth of the water in the well. No sheen or free product was seen on the water bailed from this well. Monitoring well R-1 was purged of three volumes of water, allowed to equalize and sampled. A slight hydrocarbon odor was noticed on the initial bailer of liquid removed and a very slight spotty sheen was present.
2. Samples were collected from each well and shipped via FedEx to Ace Technologies Laboratory in The Woodlands, Texas for analysis. A summary of the laboratory

analytical results of water quality sampling of the monitoring wells is provided in the attached Table 1A through 1E. This data is presented in tabular form showing the previous four monitoring events sampling results. A copy of the original laboratory analytical results is also attached. Samples from MW-1, MW-2 and WW-1 were non-detect for the contaminants of concern. MW-3 had the following contaminants present: methyl tert-butyl ether (60.5 µg/L), benzene (1.6 µg/L) and m/p xylene (0.8 µg/L). R-1 had the following contaminants present: ethyl benzene (1.1 µg/L) and o-xylene (0.8µg/L). The constituents in MW-3 do not appear to be sourced from any contamination onsite but instead appear to be constituents from gasoline contamination from some offsite source (due to the presence of MTBE). R-1 constituents are similar to those previously encountered from this well.

3. Water level and well depth measurements were measured using an electronic water level indicator capable of determining water levels to within 0.01 foot. Table 2 provides cumulative ground water level measurements for the previous four monitoring events. Based on the explanation presented in a previous report, WW-1 is still excluded from water table mapping. An updated ground water elevation map using the recent water table elevations of the ground water in the monitoring wells is presented in Figure 1. The map indicates a low gradient flow to the southeast.

If you have any questions or require additional information, please do not hesitate in contacting me at (713) 466-2445.

Sincerely,
For Baker Oil Tools



Reggie Kennedy, Director
Health Safety and Environmental Affairs

Tables
1A – 1E

TABLE 1A
MW-1

EPA 8020A	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01	2003 Sampling 03/12/03	2004 Sampling 04/06/04
Benzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.002 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01mg/l	<0.01mg/l	<0.01 mg/l	<0.01mg/l
Naphthalene	<0.01 mg/l	<0.01mg/l	<0.01mg/l	<0.01 mg/l	<0.01mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1B
MW-2

	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01	2003 Sampling 03/12/03	2004 Sampling 04/06/04
EPA 8020A					
Benzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.002 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1C
MW-3

	3rd Quarter 9/27/00	4th Quarter 12/05/01	2001 Sampling 12/05/01	2003 Sampling 03/12/03	2004 Sampling 04/08/04
EPA 8020A					
Benzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	0.0016 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	0.0382 mg/l	0.0357 mg/l	<0.001 mg/l	<0.01 mg/l	0.0605 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter
BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1D
WW-1

	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01	2003 Sampling 03/12/03	2004 Sampling 04/06/04
EPA 8020A					
Benzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.002 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter check lab report for reason

BDL indicates the sum of the individual constituent concentrations is below detectable limits

TABLE 1E
R-1

	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01	2003 Sampling 03/12/03	2004 Sampling 04/06/04
EPA 8020A					
Benzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	0.0011 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l	<0.001 mg/l
EPA 8270B					
2-Methylnaphthalene	73.1 µg/L	<10 µg/L	~13 µg/L	<0.01 mg/l	<0.01 mg/l
Naphthalene	164.2 µg/L	21 µg/L	14 µg/L	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

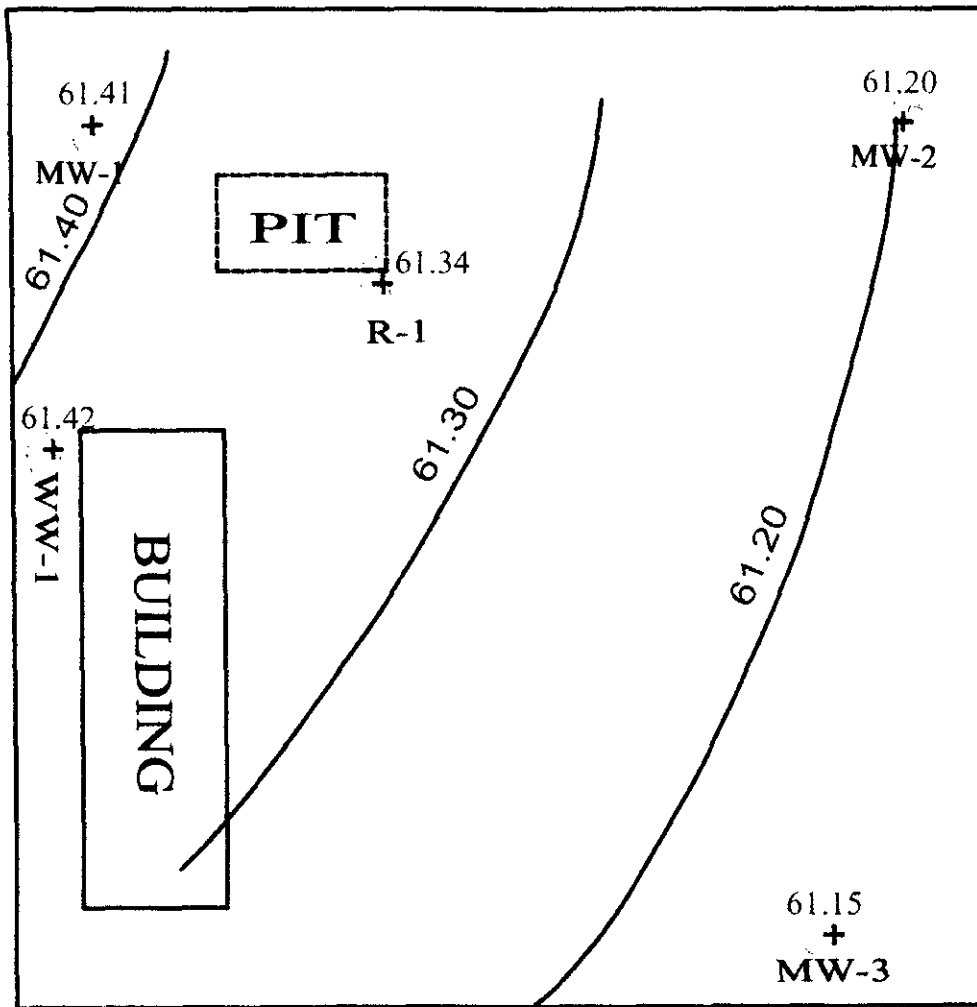
BDL indicates the sum of the individual constituent concentrations is below detectable limits

Table 2

Table 2
QUARTERLY CUMULATIVE GROUND-WATER ELEVATIONS

Monitoring Well No.	Well Depth (ft)	Top of PVC Casing Elevation (ft MSL)	Ground-water Level Elevation (ft MSL)							
			12/21/1999	3/29/2000	6/27/2000	9/27/2000	12/5/2000	12/5/2001	3/12/2003	4/6/2004
MW-1	45.7	100.19	64.73	64.74	64.56	64.10	64.17	63.42	62.31	61.41
MW-2	45.0	99.56	64.51	64.33	64.28	63.88	63.94	62.97	61.79	61.20
MW-3	38.5	99.15	64.46	64.27	64.16	63.80	63.93	62.87	61.60	61.15
WW-1	125.0	99.52	64.96	64.51	64.11	63.95	64.13	63.29	62.24	61.42
R-1	48.0	100.03	64.63	*	64.78	63.95	64.09	63.18	62.11	61.34

Figure 1



Stenbeck and Associates, Inc

Houston, Texas

Figure 1

Groundwater Elevations (2004 sampling event)

Baker Oil Tools

2800 W. Marland

Hobbs, NM

Prepared by TVS
scale 1 = 40' (approx.)
6/14/2004

Analytical Data

BTEX + MTBE

0000005

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

VOLATILES BY GC/MS			
CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: MW-1
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043564
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8260B	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: A-HP5973	DATE ANALYSED	: 04/09/04
INSTRUMENT FILE	: A5594.D	TIME ANALYZED	: 22:13
CONTAINER ID	: A	ANALYST	: ESP
DILUTION	: 1		
PURGE VOLUME	: 10 ML		

PARAMETER	UNIT	RESULTS	LO	MDL	QUALITY
Benzene	ug/L	ND	1.0	0.10	
Ethyl Benzene	ug/L	ND	1.0	0.13	
Methyl tert-Butyl Ether	ug/L	ND	1.0	0.13	
m/p-xylene	ug/L	ND	2.0	0.23	
o-xylene	ug/L	ND	1.0	0.10	
Toluene	ug/L	ND	1.0	0.11	

QUALITY CONTROL DATA

SURROGATE COMPOUND	TIME ADDED	OC RECOVERY LIMITS	RECOVERY
Dibromofluoromethane	10 ug/L	56 - 153	151
1,2-Dichloroethane-d4	10 ug/L	64 - 130	105
Toluene-d8	10 ug/L	68 - 124	93
4-Bromofluorobenzene	10 ug/L	72 - 137	77

BATCH QUALITY CONTROL SAMPLE ID			
QC BATCH ID : VBLK61	BLANK ID : VBLK61	LCS ID : VLCS61	
MS ID :	MSD ID :	LCSD ID : VLCS61D	

0000006

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

VOLATILES BY GC/MS			
CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: MW-2
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043565
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8260B	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: A-HP5973	DATE ANALYSED	: 04/09/04
INSTRUMENT FILE	: A5595.D	TIME ANALYZED	: 22:44
CONTAINER ID	: A	ANALYST	: ESP
DILUTION	: 1		
PURGE VOLUME	: 10 ML		

Compound	Unit	Result	10 mL	100 mL	1000 mL
Benzene	ug/L	ND	1.0	0.10	
Ethyl Benzene	ug/L	ND	1.0	0.13	
Methyl tert-Butyl Ether	ug/L	ND	1.0	0.13	
m/p-xylene	ug/L	ND	2.0	0.23	
o-xylene	ug/L	ND	1.0	0.10	
Toluene	ug/L	ND	1.0	0.11	

QUANTITY CONTROL DATA

Substance	Added	Recovery	Recovery
Dibromofluoromethane	10 ug/L	56 - 153	146
1,2-Dichloroethane-d4	10 ug/L	64 - 130	112
Toluene-d8	10 ug/L	68 - 124	92
4-Bromofluorobenzene	10 ug/L	72 - 137	75

QC BATCH ID : VBLK61			BLANK ID : VBLK61		LCS ID : VLCS61	
MS ID :			MSD ID :		LCSD ID : VLCS61D	

0000007

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

VOLATILES/GC/MS			
CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: MW-3
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043566
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8260B	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: A-HP5973	DATE ANALYSED	: 04/09/04
INSTRUMENT FILE	: A5596.D	TIME ANALYZED	: 23:16
CONTAINER ID	: A	ANALYST	: ESP
DILUTION	: 1		
PURGE VOLUME	: 10 ML		

COMPOUND	UNIT	RESULT	LOD	LOQ	REMARKS
Benzene	ug/L	1.6	1.0	0.10	
Ethyl Benzene	ug/L	ND	1.0	0.13	
Methyl tert-Butyl Ether	ug/L	60.5	1.0	0.13	
m/p-xylene	ug/L	0.8	2.0	0.23	J
o-xylene	ug/L	ND	1.0	0.10	
Toluene	ug/L	ND	1.0	0.11	

QUALITY CONTROL DATA

COMPOUND	SPRINKLE ADDED	RECOVERY RANGE	RECOVERY
Dibromofluoromethane	10 ug/L	56 - 153	127
1,2-Dichloroethane-d4	10 ug/L	64 - 130	123
Toluene-d8	10 ug/L	68 - 124	104
4-Bromofluorobenzene	10 ug/L	72 - 137	94

QC BATCH ID : VBLK61		
MS ID :	BLANK ID : VBLK61	LCS ID : VLCS61
	MSD ID :	LCSD ID : VLCS61D

00000008

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

CLIENT INFORMATION			
CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: WW-1
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043567
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8260B	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT INFORMATION		ANALYSIS INFORMATION	
INSTRUMENT ID	: A-HP5973	DATE ANALYSED	: 04/09/04
INSTRUMENT FILE	: A5597.D	TIME ANALYZED	: 23:47
CONTAINER ID	: A	ANALYST	: ESP
DILUTION	: 1		
PURGE VOLUME	: 10 ML		

Compound	Unit	Result	Limit	Recovery
Benzene	ug/L	ND	1.0	0.10
Ethyl Benzene	ug/L	ND	1.0	0.13
Methyl tert-Butyl Ether	ug/L	ND	1.0	0.13
m/p-xylene	ug/L	ND	2.0	0.23
o-xylene	ug/L	ND	1.0	0.10
Toluene	ug/L	ND	1.0	0.11

QUANTIFICATION DATA

Substrate Compound	SPike Added	QC Recovery	Recovery
Dibromofluoromethane	10 ug/L	56 - 153	132
1,2-Dichloroethane-d4	10 ug/L	64 - 130	102
Toluene-d8	10 ug/L	68 - 124	97
4-Bromofluorobenzene	10 ug/L	72 - 137	75

QC INFORMATION		
QC BATCH ID : VBLK61	BLANK ID : VBLK61	LCS ID : VLCS61
MS ID :	MSD ID :	LCSD ID : VLCS61D

0000009

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

VOLATILES BY GC/MS

CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: R-1
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043568
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8260B	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: A-HP5973	DATE ANALYSED	: 04/10/04
INSTRUMENT FILE	: A5598.D	TIME ANALYZED	: 00:18
CONTAINER ID	: A	ANALYST	: ESP
DILUTION	: 1		
PURGE VOLUME	: 10 ML		

Compound	Unit	Conc	Recovery	Recovery	Recovery
Benzene	ug/L	ND	1.0	0.10	
Ethyl Benzene	ug/L	1.1	1.0	0.13	
Methyl tert-Butyl Ether	ug/L	ND	1.0	0.13	
m/p-xylene	ug/L	ND	2.0	0.23	
o-xylene	ug/L	0.8	1.0	0.10	J
Toluene	ug/L	ND	1.0	0.11	

QUANTIFICATION DATA

Compound	Conc	Unit	Recovery	Recovery
Dibromofluoromethane	10	ug/L	56 - 153	133
1,2-Dichloroethane-d4	10	ug/L	64 - 130	111
Toluene-d8	10	ug/L	68 - 124	93
4-Bromofluorobenzene	10	ug/L	72 - 137	102

QC BATCH ID : VBLK61	BLANK ID : VBLK61	LCS ID : VLCS61
MS ID :	MSD ID :	LCSD ID : VLCS61D

0000010

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

VOLATILES BY GC/MS			
CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	:
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: VBLK61
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	:
METHOD REFERENCE	: SW846-8260B	DATE RECEIVED	:
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: A-HP5973	DATE ANALYSED	: 04/09/04
INSTRUMENT FILE	: A5572.D	TIME ANALYZED	: 09:50
CONTAINER ID	: A	ANALYST	: ESP
DILUTION	: 1		
PURGE VOLUME	: 10 ML		

ANALYTE	UNIT	RESULT	LOD	MDL	RECOVERY
Benzene	ug/L	ND	1.0	0.10	
Ethyl Benzene	ug/L	ND	1.0	0.13	
Methyl tert-Butyl Ether	ug/L	ND	1.0	0.13	
m/p-xylene	ug/L	ND	2.0	0.23	
o-xylene	ug/L	ND	1.0	0.10	
Toluene	ug/L	ND	1.0	0.11	

QUALITY CONTROL DATA

SUBSTRATE COMPOUND	SPRINKLE ADDED	DC RECOVERY LIMITS	% RECOVERY
Dibromofluoromethane	10 ug/L	56 - 153	138
1,2-Dichloroethane-d4	10 ug/L	64 - 130	95
Toluene-d8	10 ug/L	68 - 124	102
4-Bromofluorobenzene	10 ug/L	72 - 137	76

BLANK QUANTITY CONTROL SAMPLES		
QC BATCH ID : VBLK61	BLANK ID : VBLK61	LCS ID : VLCS61
MS ID :	MSD ID :	LCSD ID : VLCS61D

0000011

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LCS/LCSD SUMMARY REPORT

VOLATILES BY GC/MS

CLIENT NAME : Stenbeck & Associates, Inc.
PROJECT NAME : BOT Hobbs 2004
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 05/14/04

SAMPLE MATRIX : WATER
LAB CONTROL SAMPLE
LCS SAMPLE ID : VLCS61
CLIENT SAMPLE ID :
DATE ANALYZED : 04/09/04
INSTRUMENT FILE : A5573.D

METHOD REFERENCE : SW846-8260B
LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : VLCS61D
CLIENT SAMPLE ID :
DATE ANALYZED : 04/09/04
INSTRUMENT FILE : A5574.D

		10.0	10.0	9.4	9.2	94	92	2	25	75 - 143
Benzene	ug/L	10.0	10.0	9.4	9.2	94	92	2	25	75 - 143
Ethyl Benzene	ug/L	10.0	10.0	10.0	10.0	100	100	0	25	71 - 141
m/p Xylene	ug/L	20.0	20.0	21.0	20.7	105	103	1	25	69 - 140
Methyl tert-butyl ether	ug/L	10.0	10.0	8.5	8.3	85	83	2	25	75 - 140
o-Xylene	ug/L	10.0	10.0	9.8	9.7	98	97	1	25	67 - 145
Toluene	ug/L	10.0	10.0	9.3	9.1	93	91	2	25	74 - 139

* Indicates values outside of QC limits

RPD : 0 out of 6 outside limits
Spike Recovery : 0 out of 12 outside limits

0000012

SVOA

0000013

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

SEMICONDUCTOR BY GC/MS			
CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: MW-1
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043564
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8270C	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: D-HP5972	DATE EXTRACTED	: 04/26/04
INSTRUMENT FILE	: D0010.D	DATE ANALYSED	: 05/04/04
CONTAINER ID	: A	TIME ANALYZED	: 23:03
DILUTION	: 1	ANALYST	: ESP

Compound	Unit	Result	Limit	Conc.	Conc.
2-Methylnaphthalene	ug/L	ND	10	2.16	
Naphthalene	ug/L	ND	10	2.52	

QUALITY CONTROL DATA

Sample	Conc.	Conc.	Conc.	Conc.
Nitrobenzene - d5	50	ug/L	35 - 114	53

QC BATCH ID : SVOB02	BLANK ID : SVOB02	LCS ID : SVOL02
MS ID :	MSD ID :	LCSD ID : SVOL02D

0000014

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

SEMIQUANTITATIVE RESULTS			
CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: MW-2
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043565
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8270C	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: D-HP5972	DATE EXTRACTED	: 04/26/04
INSTRUMENT FILE	: D0011.D	DATE ANALYSED	: 05/05/04
CONTAINER ID	: A	TIME ANALYZED	: 00:08
DILUTION	: 1	ANALYST	: ESP

2-Methylnaphthalene	ug/L	ND	10	2.16	
Naphthalene	ug/L	ND	10	2.52	

QUALITY CONTROL DATA

CONCENTRATION	RECOVERY	RECOVERY	RECOVERY
Nitrobenzene - d5	50 ug/L	35 - 114	56

QC BATCH ID : SVOB02	BLANK ID : SVOB02	LCS ID : SVOL02
MS ID :	MSD ID :	LCSD ID : SVOL02D

0000015

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

SEMI-VOLATILE ORGANICS

CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: MW-3
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043566
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8270C	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: D-HP5972	DATE EXTRACTED	: 04/26/04
INSTRUMENT FILE	: D0012.D	DATE ANALYSED	: 05/05/04
CONTAINER ID	: A	TIME ANALYZED	: 01:10
DILUTION	: 1	ANALYST	: ESP

2-Methylnaphthalene	ug/L	ND	10	2.16	
Naphthalene	ug/L	ND	10	2.52	

QUALITY CONTROL DATA

Nitrobenzene - d5	50 ug/L	35 - 114	38
-------------------	---------	----------	----

QC BATCH ID : SVOB02	BLANK ID : SVOB02	LCS ID : SVOL02
MS ID :	MSD ID :	LCSD ID : SVOL02D

0000016

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

CLIENT INFORMATION			
CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: WW-1
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043567
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8270C	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT INFORMATION		ANALYSIS INFORMATION	
INSTRUMENT ID	: D-HP5972	DATE EXTRACTED	: 04/26/04
INSTRUMENT FILE	: D0060.D	DATE ANALYSED	: 05/13/04
CONTAINER ID	: A	TIME ANALYZED	: 13:21
DILUTION	: 1	ANALYST	: ESP

Compound	Unit	Result	Limit	Conc.	Conc.
2-Methylnaphthalene	ug/L	ND	10	2.16	
Naphthalene	ug/L	ND	10	2.52	

QUALITY CONTROL DATA

Compound	Unit	Result	Limit
Nitrobenzene - d5	50 ug/L	35 - 114	40

QC BATCH ID : SVOB02	BLANK ID : SVOB02	LCS ID : SVOL02
MS ID :	MSD ID :	LCSD ID : SVOL02D

0000017

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

SEMIVOLATILES BY GC/MS

CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	: R-1
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: 24043568
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	: 04/06/04
METHOD REFERENCE	: SW846-8270C	DATE RECEIVED	: 04/08/04
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: D-HP5972	DATE EXTRACTED	: 04/26/04
INSTRUMENT FILE	: D0060.D	DATE ANALYSED	: 05/13/04
CONTAINER ID	: A	TIME ANALYZED	: 13:21
DILUTION	: 1	ANALYST	: ESP

2-Methylnaphthalene	ug/L	ND	10	2.16
Naphthalene	ug/L	ND	10	2.52

QUALITY CONTROL DATA

Nitrobenzene - d5	50 ug/L	35 - 114	40
-------------------	---------	----------	----

QC BATCH ID : SVOB02
 MS ID :

BLANK ID : SVOB02
 MSD ID :

LCS ID : SVOLO2
 LCSD ID : SVOLO2D

0000018

ACE TECHNOLOGIES, Inc.
8707 Technology Forest Pl., The Woodlands, TX 77381

Page 1 of 1

LABORATORY REPORT

SEMIVOLATILES BY GC/MS

CLIENT NAME	: Stenbeck & Associates, Inc.	CLIENT SAMPLE ID	:
PROJECT MANAGER	: Mr. Thomas Stenbeck	LAB SAMPLE ID	: SVOB02
PROJECT NAME	: BOT Hobbs 2004	SAMPLE MATRIX	: WATER
PROJECT NUMBER	:	DATE SAMPLED	:
METHOD REFERENCE	: SW846-8270C	DATE RECEIVED	:
		PRINTED ON	: 05/14/04

INSTRUMENT ID	: D-HP5972	DATE EXTRACTED	: 04/26/04
INSTRUMENT FILE	: D0007.D	DATE ANALYSED	: 05/04/04
CONTAINER ID	: A	TIME ANALYZED	: 19:26
DILUTION	: 1	ANALYST	: ESP

2-Methylnaphthalene	ug/L	ND	10	2.16
Naphthalene	ug/L	ND	10	2.52

QUALITY CONTROL DATA

Nitrobenzene - d5	50 ug/L	35 - 114	47
-------------------	---------	----------	----

QC BATCH ID : SVOB02	BLANK ID : SVOB02	LCS ID : SVOL02
MS ID :	MSD ID :	LCSD ID : SVOL02D

0000019

ACE Technologies, Inc.
8707 Technolgy Forest PL. The Woodlands. TX 77381

LCS/LCSD SUMMARY REPORT
SEMIVOLATILES BY GC/MS

CLIENT NAME	: Stenbeck & Associates, Inc.	DATE RECEIVED	:
PROJECT NAME	: BOT Hobbs 2004	PRINTED ON	: 05/14/04
PROJECT NUMBER	:		

SAMPLE MATRIX	: WATER	METHOD REFERENCE	: SW846-8270C
LAB CONTROL SAMPLE		LAB CONTROL SAMPLE	DUPLICATE
LCS SAMPLE ID	: SVOL02	LCS SAMPLE ID	: SVOL02D
CLIENT SAMPLE ID	:	CLIENT SAMPLE ID	:
DATE ANALYSED	: 05/04/04	DATE ANALYSED	: 05/04/04
INSTRUMENT FILE	: D0008.D	INSTRUMENT FILE	: D0009.D

PARAMETER	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUND VALUE	LCS RECOVERY (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMITS REC.
1,2,4-Trichlorobenzene	ug/L	50.0	50.0	22.6	22.8	45	46	1	50	44 - 142
1,4-Dichlorobenzene	ug/L	50.0	50.0	26.6	26.2	53	52	2	50	30 - 125
2,4-Dinitrotoluene	ug/L	50.0	50.0	27.0	28.5	54	57	6	50	39 - 139
2-Chlorophenol	ug/L	75.0	75.0	44.7	44.4	60	59	1	50	41 - 125
4-Chloro-3-methylphenol	ug/L	75.0	75.0	46.4	51.3	62	68	10	50	44 - 125
4-Nitrophenol	ug/L	75.0	75.0	36.3	35.8	48	48	1	50	25 - 131
Acenaphthene	ug/L	50.0	50.0	27.0	25.4	54	51	6	50	49 - 125
N-Nitroso-di-propylamine	ug/L	50.0	50.0	48.9	48.5	98	97	1	50	37 - 125
Pentachlorophenol	ug/L	75.0	75.0	69.1	67.1	92	89	3	50	28 - 136
Phenol	ug/L	75.0	75.0	20.3	20.7	27	28	2	50	18 - 125
Pyrene	ug/L	50.0	50.0	33.2	32.1	66	64	3	50	47 - 136

*Indicate Values outside of QC limits

RPD	:	0	out of	11	outside limits
Spike Recovery	:	0	out of	22	outside limits

0000020

END OF THE REPORT

TOTAL NUMBER OF PAGES : 21

CHAIN OF CUSTODY

0000001

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

51. CN 15

747 aie,j

747 aie,j

Client Name:	Stenbeck + Associates, Inc.			
Client Contact:	Theresa STENBECK			
Address:	PO Box 841005			
City/State/Zip Code:	Houston TX 77284			
Project Name:	BOT Hobbs 2004			
Project Number:				
Project Location:	172665 New Mexico			
Phone/Fax:	281-345-2240			
SAMPLE ID	Date	Time	C/G	Temp
MW-1	04-06-04	4:35		Amb
MW-2	"	4:40		"
MW-3	"	4:00		"
MW-1	"	4:50		"
R-1	"	5:00		"

Client/Consultant/Remarks	Turn Around Time	Special Reporting Requirements	Standard 200	1. Rail required by Sampler	3. Rail required by	5. Rail required by
Any Questions Please call	48hr		<input checked="" type="checkbox"/>			
			<input type="checkbox"/>			
			<input checked="" type="checkbox"/>			
			<input type="checkbox"/>			
			<input type="checkbox"/>			

Matrix	Bottle	Size	Days	Number of Containers	Requested Analysis	Lab ID
W = water 2 = soil O = other 1 = other	Plastic 1 = Amber Glass O = glass V = vial	1 = filter 4 = 402 4U = vial 8 = 802 16 = 1602	1 = HCl 2 = HNO3 3 = H2SO4 O = other		MT07 BTRX 2-methyl naphthalene	3564 3565 3566 3567 3568
W	AV	140		1		
W	AV	140		1		
W	AV	140		1		
W	AV	140		1		
W	AV	140		1		

Level 3 GC	Level 4 GC	Received by:	Received by:
late	late	04-06-04	04/06/04
time	time	5:30pm	04/06/04
late	late		
time	time		
late	late		
time	time		

ACE TECHNOLOGIES
8707 Technology Forest Pl., The Woodlands, TX 77381
SAMPLE LOG-IN CHECKLIST/DISCREPANCY REPORT

EPISODE #: 3564-68 DATE REC'D: 04/08 TIME REC'D: 1055 TEMP: 4°C

CLIENT NAME: Stenbeck + Associates

PROJECT NAME: BOT HILLS 2004

PROJECT NUMBER: _____

1 AQUEOUS, # _____ SOIL SAMPLES, # _____ SLUDGE, # _____ OTHER _____

COURIER/AIRBILL # _____

SAMPLE CONTAINER SEALS: present absent intact broken _____

COOLER CUSTODY SEALS: present absent intact broken _____ NAME & DATE: _____

HOW MANY AND WHERE _____

	YES	NO
Were samples screened for radioactivity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chain-of-custody present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody documents: Sealed in a plastic bag?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Signed and dated by field personnel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Filled out properly in indelible ink?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Signed and dated by log-in personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Container Condition: Each containers sealed in a separate plastic bag?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Labels complete (ID, date, time, signature, preservative, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Labels agree with chain-of-custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received without leakage or breakage? If no, list:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct quantity indicated on chain-of-custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample Integrity: Correct containers used for the test indicated? If no, list:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct preservatives added to the samples? If no, list:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sufficient sample amount sent for the tests indicated? If no, list:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VOA vials filled completely? If no, list:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aqueous volatiles samples preserved? If no, list:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Discrepancy Report:		
Discrepancies to be discussed with the client?		
Project Manager's recommendations?		
Who was notified?	By whom?	Date:
Client's comments:		
Corrective actions carried out?		

COMMENTS:

For those short holding time and fast turn-around parameters, has a Rush Notification sheet been issued to the lab?

LOG-IN BY:

Paul J. Dickman

DATE:

04/08/04