

3R - 79

REPORTS

DATE:

2/7/2001

BIO TECH REMEDIATION INC.

710 East 20th Street, Suite 400 ◦ Farmington, NM 87401 ◦ (505) 632-3365 ◦ Fax (505) 632-9850

**ANNUAL GROUNDWATER SAMPLING
BURLINGTON RESOURCES OIL AND GAS COMPANY'S
THOMAS No. 1 LOCATION
BLOOMFIELD, NEW MEXICO**

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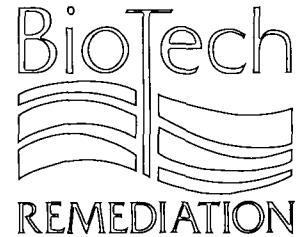
MAR 26 2001

**ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION**

prepared for the

**NEW MEXICO OIL CONSERVATION DIVISION
Mr. Will Olson, Project Manager, Santa Fe Office
and
Mr. Denny Foust, Aztec Office**

February 7, 2001



ANNUAL GROUNDWATER SAMPLING
BURLINGTON RESOURCES OIL AND GAS COMPANY'S
THOMAS No. 1 LOCATION
BLOOMFIELD, NEW MEXICO

710 E. 20th Street, Suite 400
Farmington, New Mexico 87401
Off: (505) 327-4965
Fax: (505) 564-3604

Prepared for the
NEW MEXICO OIL CONSERVATION DIVISION

Mr. Will Olson, Project Manager, Santa Fe Office
and
Mr. Denny Foust, Aztec Office

February 7, 2001

Prepared by

BIOTECH REMEDIATION, INC.
710 E. 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401

Prepared by:

A handwritten signature in black ink that reads "Ken Sinks".

Ken Sinks
Project Scientist

2000 Annual Report Thomas No.1 Well

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1.0 INTRODUCTION

In compliance with and pursuant to the requirements of the New Mexico Oil Conservation Division (NMOCD), BioTech Remediation, Inc. (BioTech), submits the following 2000 Annual Monitoring and Sampling Report for the Burlington Resources Oil and Gas Company's Thomas No. 1 (now Clayton Investments) well located in Bloomfield, New Mexico.

This report summarizes the monitoring, sampling and data compilation activities for the period of January 2000 through December 2000. Included are groundwater measurement of all wells and laboratory analyses for MW-02 and MW-03.

2.0 ANNUAL MONITORING AND SAMPLING ACTIVITIES

BioTech personnel completed the monitoring and sampling requirements for the Thomas No. 1 well located in Bloomfield, New Mexico on August 7, 2000 and December 13, 2000. During the monitoring and sampling events, groundwater monitor well measurements and sample collection strictly followed the procedures outlined below.

2.1 Groundwater Measurement

During each groundwater sampling event, depth to groundwater measurements were recorded for each monitor well. A Solonist Probe was used to measure from the survey point on the top of the well casing to the top of groundwater in the well. Depth measurements were recorded to 1/100 of a foot. Groundwater measurement data is summarized and presented in Table 1 and groundwater contour plots based on 2000 elevation data were constructed and are found on Figures 1A and 1B.

2.2 Groundwater Sample Collection

Before groundwater samples were collected, each monitor well was purged of approximately three well volumes and then allowed a short recovery period in order for the groundwater to equilibrate within the well casing, at which time each monitor well was considered to be successfully purged.

During BTEX sample collection, a disposable bailer was lowered slowly into the well casing, taking care not to agitate the casing water. The bailer was allowed to take on water and then carefully removed from the well. Once removed, the bailer was fitted with a slow flow drain device. In transferring the sample from the bailer to the sample container, extreme care was taken to ensure that each container was filled from the bottom until a meniscus formed and no headspace or air bubbles were present in the sample bottle. The sample container cap was replaced then tightly closed. The sample vial was observed while rotating to further ascertain that it was void of air.

2.3 Sample Preservation

Sample preservation consisted of the following; the vials were prepared in advance by the analyzing laboratory with hydrochloric acid (HCl). The HCl was added primarily to prevent bacterial degradation of hydrocarbons during sample transport and laboratory holding time.

2.3 Sample Transport

Immediately following sample collection, containers were labeled with the sample origin, time and date of collection, type of sample, sampler identification, preservative used, and the requested analysis. Once labeled, each sample was logged onto a Chain of Custody Record. Properly labeling and logging each of the samples avoided the potential for sample misidentification. The samples were then placed on ice and cooled to approximately 4° C.

2.5 Analysis

Groundwater sampling of the two monitor wells was conducted during August 2000 and December, 2000. During each sampling event, collected samples were analyzed for MTBE, benzene, toluene, ethylbenzene, and total xylenes (BTEX) per EPA Method 8021B. The laboratory results analyses are presented in Table 2.

3.0 EQUIPMENT DECONTAMINATION

In order to ensure data validity and prevent cross-contamination, BioTech personnel employed and strictly followed decontamination protocols. During all monitor well measurement and sample collection, the following method for decontaminating equipment was employed:

- Wash with detergent (Alconox) and distilled water
- Rinse with distilled water
- Wash with detergent (Alconox) and distilled water
- Double rinse with distilled water

4.0 DISCUSSION AND RECOMMENDATIONS

The contaminant concentrations in MW-03 continue to be below the NMWQCC standards for all contaminants. MW-02 continues to show a declining overall concentration (see Table 2), this indicates the source of contamination is being cleaned up through natural attenuation. Table 1 shows the groundwater elevation data in all monitor wells. Figures 1A and 1B illustrate the groundwater contours for the area at the time of sampling and monitoring in August 2000 and December 2000.

No further action is recommended at this time. BioTech will continue to monitor the

site on a semi-annual base (July and January) and report the information on an annual basis by April following the January sampling.

TABLES

TABLE 1
SUMMARY OF GROUNDWATER MONITORING DATA
Thomas Well #1, Bloomfield, NM

WELL	DATE	TOC	OUTAGE FT	WATER ELEV.	TEMP °C	pH	DO mg/l	Cond.	ORP	TDS	NTU's	% Salinity	Purged vol.
MW-01	10/20/94	5376.91	4.95	5371.95	14.8	6.81	NM	2280	NM	NM	NM	NM	
	01/04/95	5376.91	5.90	5371.00	17.5	6.96	NM	2120	NM	NM	NM	NM	
	07/10/95	5376.91	4.85	5372.05	16.7	7.05	NM	2790	NM	NM	NM	NM	
	01/10/96	5376.91	4.86	5372.04	8.9	7.18	NM	3960	NM	NM	NM	NM	
	07/15/96	5376.91	5.14	5371.76	17.8	7.04	NM	2160	NM	NM	NM	NM	
	01/08/97	5376.91	4.76	5372.14	110.2	7.00	NM	2200	NM	NM	NM	NM	
MW-02	08/21/98	5376.91	3.29	5373.62	NM	NM	NM	NM	NM	NM	NM	NM	
	03/03/99	5376.91	3.20	5373.71	10.0	6.50	0.07	4300	NM	NM	NM	NM	
	06/17/99	5376.91	3.68	5373.23	NM	NM	NM	NM	NM	NM	NM	NM	
	09/13/99	5376.91	3.33	5373.58	NM	NM	NM	NM	NM	NM	NM	NM	
	01/20/00	5376.91	3.38	5373.53	10.7	5.90	0.08	NM	NM	NM	NM	NM	1.00
	08/07/00	5376.91	3.93	5372.98	15.4	6.70	0.36	NM	NM	NM	NM	NM	1.00
MW-03	12/13/00	5376.91	3.58	5373.33	NM	NM	NM	NM	NM	NM	NM	NM	
	10/28/92	5376.97	6.43	5370.54	20.0	7.20	NM	2200	NM	NM	NM	NM	
	11/13/92	5376.97	6.49	5370.48	16.1	6.97	NM	2250	NM	NM	NM	NM	
	10/20/94	5376.97	5.71	5371.26	19.1	6.64	NM	2460	NM	NM	NM	NM	
	01/04/95	5376.97	5.95	5371.02	7.1	6.95	NM	2160	NM	NM	NM	NM	
	07/10/95	5376.97	5.74	5371.23	NM	NM	NM	NM	NM	NM	NM	NM	
MW-04	01/10/96	5376.97	5.57	5371.40	NM	NM	NM	NM	NM	NM	NM	NM	
	07/15/96	5376.97	5.74	5371.23	NM	NM	NM	NM	NM	NM	NM	NM	
	01/08/97	5376.97	5.44	5371.53	NM	NM	NM	NM	NM	NM	NM	NM	
	08/21/98	5376.97	4.09	5372.88	NM	NM	NM	NM	NM	NM	NM	NM	
	03/03/99	5376.97	3.73	5373.24	9.7	7.00	NM	2170	NM	NM	NM	NM	
	06/17/99	5376.97	4.18	5372.79	NM	NM	0.01	NM	NM	NM	NM	NM	
MW-05	09/13/99	5376.97	3.62	5373.35	NM	NM	NM	NM	NM	NM	NM	NM	
	01/20/00	5376.97	3.89	5373.08	NM	6.20	NM	NM	NM	NM	NM	NM	1.00
	08/07/00	5376.97	4.51	5372.46	18.4	6.10	0.26	NM	NM	NM	NM	NM	1.30
	12/13/00	5376.97	4.15	5372.82	NM	NM	NM	NM	NM	NM	NM	NM	1.50
	10/28/92	5375.56	4.48	5371.08	20.0	7.12	NM	2450	NM	NM	NM	NM	
	11/13/92	5375.56	4.56	5371.00	13.5	7.03	NM	2300	NM	NM	NM	NM	
MW-06	10/20/94	5375.56	4.30	5371.26	16.5	2.86	NM	2970	NM	NM	NM	NM	
	01/04/95	5375.56	4.55	5371.01	6.3	5.35	NM	2640	NM	NM	NM	NM	
	07/10/95	5375.56	4.35	5371.21	17.0	7.08	NM	2160	NM	NM	NM	NM	
	01/10/96	5375.56	4.27	5371.29	8.4	7.43	NM	4640	NM	NM	NM	NM	
	07/15/96	5375.56	4.45	5371.11	23.2	6.95	NM	1610	NM	NM	NM	NM	
	01/08/97	5375.56	4.14	5371.42	9.3	7.21	NM	2550	NM	NM	NM	NM	
MW-07	08/21/98	5375.56	2.90	5372.66	NM	NM	NM	NM	NM	NM	NM	NM	
	03/03/99	5375.56	2.27	5373.29	8.3	7.11	NM	4820	NM	NM	NM	NM	

TABLE 1
SUMMARY OF GROUNDWATER MONITORING DATA
Thomas Well #1, Bloomfield, NM

WELL	DATE	TOC	OUTAGE FT	WATER ELEV.	TEMP °C	pH	DO mg/l	Cond.	ORP	TDS	NTU's	% Salinity	Purged vol.
MW-04	06/17/99	5375.56	2.95	5372.61	NM	7.40	0.02	NM	NM	NM	NM	NM	
	09/13/99	5375.56	2.63	5372.93	NM	6.80	NM	NM	NM	NM	NM	NM	
	01/20/00	5375.56	2.48	5373.08	9.4	6.30	0.16	NM	NM	NM	NM	NM	1.25
	08/07/00	5375.56	3.35	5372.21	19.0	6.20	0.28	NM	NM	NM	NM	NM	1.00
	12/13/00	5375.56	2.77	5372.79	NM	NM	NM	NM	NM	NM	NM	NM	1.00
	10/20/94	5375.56	5.52	5370.04	11.9	6.92	NM	4160	NM	NM	NM	NM	
	01/04/95	5375.56	4.76	5370.80	6.1	6.97	NM	2350	NM	NM	NM	NM	
	07/10/95	5375.56	4.58	5370.98	15.0	7.11	NM	1840	NM	NM	NM	NM	
	01/10/96	5375.56	4.41	5371.15	8.4	7.52	NM	2770	NM	NM	NM	NM	
	07/15/96	5375.56	4.58	5370.98	21.6	7.20	NM	1470	NM	NM	NM	NM	
MW-05	01/08/97	5375.56	4.29	5371.27	8.2	7.23	NM	1660	NM	NM	NM	NM	
	08/21/98	5375.56	2.95	5372.61	NM	NM	NM	NM	NM	NM	NM	NM	
	03/03/99	5375.56	2.44	5373.12	8.1	8.20	0.12	6820	NM	NM	NM	NM	
	06/17/99	5375.56	3.01	5372.55	NM	NM	NM	NM	NM	NM	NM	NM	
	09/13/99	5375.56	2.67	5372.89	NM	NM	NM	NM	NM	NM	NM	NM	
	01/20/00	5375.56	2.66	5372.91	9.0	8.40	0.44	NM	NM	NM	NM	NM	
	08/07/00	5375.56	3.41	5372.15	20.3	8.00	0.31	NM	NM	NM	NM	NM	
	12/13/00	5375.56	2.91	5372.65	NM	NM	NM	NM	NM	NM	NM	NM	
	01/04/95	5376.35	6.04	5370.31	6.1	6.97	NM	2350	NM	NM	NM	NM	
	07/11/95	5376.35	5.97	5370.38	15.0	7.11	NM	1840	NM	NM	NM	NM	
	10/20/95	5376.35	5.80	5370.55	11.9	6.92	NM	4160	NM	NM	NM	NM	
	01/10/96	5376.35	5.81	5370.54	8.8	7.44	NM	3190	NM	NM	NM	NM	
	07/15/96	5376.35	5.88	5370.47	14.8	7.02	NM	1290	NM	NM	NM	NM	
	01/08/97	5376.35	5.70	5370.65	8.5	6.85	NM	2070	NM	NM	NM	NM	
	08/21/98	5376.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	03/03/99	5376.35	3.62	5372.73	9.2	6.50	0.09	3690	NM	NM	NM	NM	
	06/17/99	5376.35	4.51	5371.84	NM	NM	NM	NM	NM	NM	NM	NM	
	09/13/99	5376.35	4.30	5372.05	NM	NM	NM	NM	NM	NM	NM	NM	
	01/20/00	5376.35	3.91	5372.44	9.8	7.30	0.93	NM	NM	NM	NM	NM	
	08/07/00	5376.35	5.12	5371.23	14.4	6.30	0.94	NM	NM	NM	NM	NM	
	12/13/00	5376.35	4.22	5372.13	NM	NM	NM	NM	NM	NM	NM	NM	

NM - Signifies the parameter was not measured.

TABLE 2
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS
Thomas Well #1, Bloomfield, NM

WELL	DATE	TIME	ug/L				
			MTBE	BENZENE	TOLUENE	ETHYLBENZ	XYLENES
MW-01	11/01/91		NS	ND	ND	ND	ND
	09/01/92		NS	ND	ND	ND	ND
	06/15/93		NS	ND	ND	ND	ND
	10/20/94		NS	<0.03	<0.03	<0.03	<0.09
	01/04/95		NS	<0.03	<0.03	<0.03	<0.09
	07/10/95		NS	1.9	ND(1.0)	2.2	ND(2.0)
	01/10/96		NS	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
	07/15/96		NS	<0.10	0.1	<0.10	<0.20
	01/08/97		NS	NS	NS	NS	NS
	08/21/98		NS	NS	NS	NS	NS
	03/03/99		NS	NS	NS	NS	NS
	06/17/99		NS	NS	NS	NS	NS
	09/13/99		NS	NS	NS	NS	NS
	01/20/00		NS	NS	NS	NS	NS
	08/07/00		NS	NS	NS	NS	NS
	12/13/00		NS	NS	NS	NS	NS
MW-02	08/18/91		NS	10.0	750.0	750.0	620.0
	08/31/91		NS	800.0	2800.0	400.0	8100.0
	11/01/91		NS	800.0	2800.0	400.0	8100.0
	09/01/92		NS	251.0	64.0	23.0	346.0
	09/15/92		NS	251.0	64.0	23.0	397.0
	10/28/92		NS	1230.0	570.0	113.0	2750.0
	11/13/92		NS	3.0	484.0	164.0	1190.0
	12/07/92		NS	850.0	291.0	98.0	912.0
	06/15/93		NS	860.0	420.0	130.0	2540.0
	10/20/94		NS	556.0	<0.3	79.4	569.0
	01/04/95		NS	448.0	8.3	48.0	340.0
	07/10/95		NS	400.0	ND(10.0)	47.0	324.0
	01/10/96		NS	390.0	ND(10.0)	64.0	395.0
	07/15/96		NS	150.0	<5.0	22.0	110.0
	01/08/97		NS	400.0	2.3	78.0	400.0
	08/21/98		NS	180.0	4.1	48.0	487.4
	03/03/99		NS	260.0	3.7	68.0	703.0
	06/17/99	1308	ND	220.0	18.0	84.0	812.0
	09/13/99	1359	NS	340.0	20.0	110.0	1403.3
	01/20/00	1410	3.3	440.0	ND	130.0	1606.7
	08/07/00	1137	ND	84.0	ND	48.0	435.4
	12/13/00	1005	ND	120.0	ND	56.0	394.0
MW-03	08/18/91		NS	10.0	750.0	750.0	620.0
	08/31/91		NS	1500.0	30000.0	2000.0	38000.0
	11/01/91		NS	1500.0	30000.0	2000.0	36000.0
	09/01/92		NS	ND	8220.0	ND	ND
	09/15/92		NS	ND	8220.0	ND	3630.0

TABLE 2
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS
Thomas Well #1, Bloomfield, NM

WELL	DATE	TIME	ug/L			
			MTBE	BENZENE	TOLUENE	ETHYLBENZ
	10/28/92		NS	256.0	11400.0	1120.0
	11/13/92		NS	117.0	4270.0	980.0
	12/08/92		NS	25.6	1560.0	570.0
	06/15/93		NS	ND	7800.0	780.0
	10/20/94		NS	521.0	10900.0	455.0
	01/04/95		NS	122.0	2700.0	155.0
	07/11/95		NS	ND(10.0)	620.0	61.0
	01/10/96		NS	ND(25.0)	1200.0	88.0
	07/15/96		NS	<1.0	57.0	8.0
	01/08/97		NS	<1.0	150.0	22.0
	08/21/98		NS	ND	4.6	13.0
	03/03/99		NS	ND	51.0	14.0
	06/17/99	1240	ND	ND	10.0	16.0
	09/13/99	1425	NS	5.8	4.0	8.6
	01/20/00	1220	ND	ND	110.0	31.0
	08/07/00	1347	ND	ND	8.8	34.0
	12/13/00	1027	ND	ND	5.3	13.0
MW-04	11/01/91		NS	ND	ND	ND
	09/04/92		NS	ND	ND	ND
	06/15/93		NS	ND	ND	ND
	01/04/95		NS	<0.3	<0.3	<0.3
	07/10/95		NS	ND(1.0)	ND(1.0)	ND(1.0)
	01/10/96		NS	ND(1.0)	ND(1.0)	3.6
	07/16/96		NS	<1.0	0.1	<0.1
	01/08/97		NS	<1.0	1.3	3.7
	08/21/98		NS	NS	NS	NS
	03/03/99		NS	NS	NS	NS
	06/17/99		NS	NS	NS	NS
	09/13/99		NS	NS	NS	NS
	01/20/00		NS	NS	NS	NS
	08/07/00		NS	NS	NS	NS
	08/07/00		NS	NS	NS	NS
MW-05	10/20/34		NS	<0.3	<0.3	<0.3
	11/01/91		NS	ND	ND	ND
	09/01/92		NS	ND	ND	ND
	06/15/93		NS	9.7	ND	ND
	01/04/95		NS	<0.3	<0.3	<0.3
	07/11/95		NS	13.0	6.1	3.7
	01/10/96		NS	ND(1.0)	ND(1.0)	ND(1.0)
	07/16/96		NS	<0.1	<0.1	<0.1
	01/08/97		NS	<1.0	1.1	<0.1
	08/21/98		NS	NS	NS	NS
	03/03/99		NS	NS	NS	NS

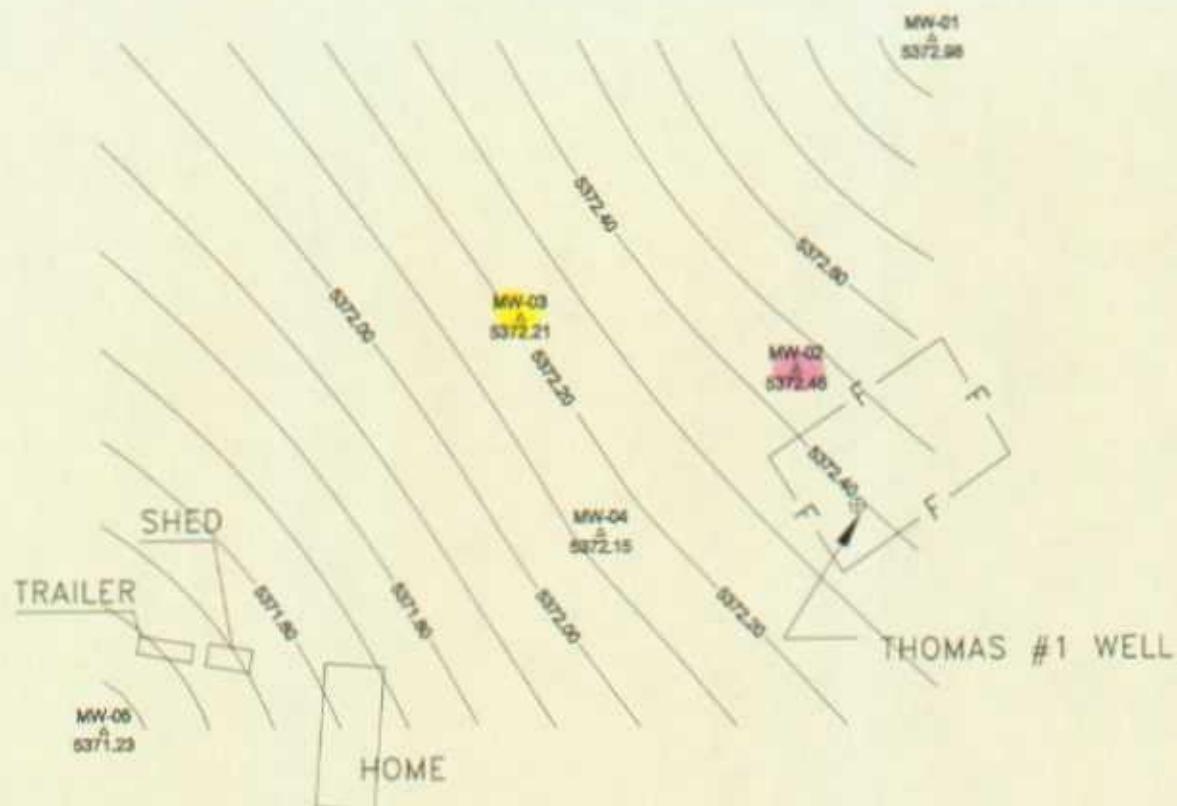
TABLE 2
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS
Thomas Well #1, Bloomfield, NM

WELL	DATE	TIME	ug/L				
			MTBE	BENZENE	TOLUENE	ETHYLBENZ	XYLENES
	06/17/99		NS	NS	NS	NS	NS
	09/13/99		NS	NS	NS	NS	NS
	01/20/00		NS	NS	NS	NS	NS
	08/07/00		NS	NS	NS	NS	NS
	12/13/00		NS	NS	NS	NS	NS

NS - Signifies Not Sampled for this test

ND - Signifies Not Detected at tests lowest limits of detection

FIGURES



SCALE: 1" = 100'

100 0 100 200 300

GRAPHIC SCALE - FEET

KEY
~~~~~  
GROUNDWATER  
CONTOUR

THOMAS NO. 1 WELL  
BLOOMFIELD, NM

DRAWN BY: K. SINKS

FIGURE 1A  
GROUNDWATER  
CONTOUR MAP

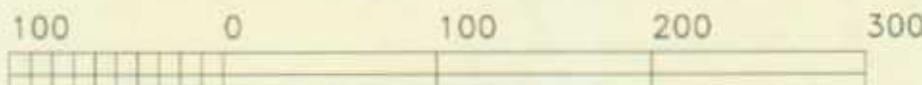
AUGUST 7, 2000

710 EAST 20TH STREET, SUITE 400  
FARMINGTON, NEW MEXICO 87401  
PHONE 505-327-4963  
FAX 505-384-3804





SCALE: 1" = 100'



GRAPHIC SCALE - FEET



THOMAS NO. 1 WELL  
BLOOMFIELD, NM

DRAWN BY: K. SINKS

FIGURE 1B  
GROUNDWATER  
CONTOUR MAP

DECEMBER 13, 2000

**BioTech**  
REMEDIA~~TION~~

710 EAST 20TH STREET, SUITE 400  
FARMINGTON, NEW MEXICO 87401  
PHONE 505-327-4965  
FAX 505-564-3604

## **APPENDIX**

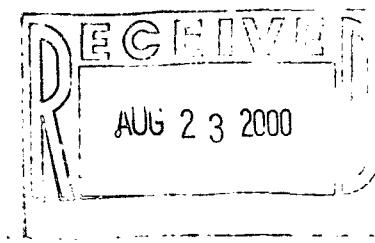
OFF: (505) 325-5667  
FAX: (505) 327-1496



LAB: (505) 325-1556  
FAX: (505) 327-1496

August 21, 2000

Terry Griffin  
BioTech Remediation, Inc.  
710 E. 20th, Suite 400  
Farmington, NM 87401  
TEL: (505) 327-4965  
FAX (505) 564-3604



RE: Clayton Farm; Thomas #1 Well

Order No.: 0008004

Dear Terry Griffin,

On Site Technologies, LTD. received 3 samples on 8/7/2000 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Aromatic Volatiles by GC/PID (SW8021B)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "David Cox".

David Cox



OFF: (505) 325-5667  
FAX: (505) 327-1496

LAB: (505) 325-1556  
FAX: (505) 327-1496

## On Site Technologies, LTD.

Date: 21-Aug-00

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**CLIENT:** BioTech Remediation, Inc.  
**Project:** Clayton Farm; Thomas #1 Well  
**Lab Order:** 0008004

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## CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

OFF: (505) 325-5667  
FAX: (505) 327-1496



LAB: (505) 325-1556  
FAX: (505) 327-1496

## ANALYTICAL REPORT

Date: 21-Aug-00

|                    |                              |                            |                      |
|--------------------|------------------------------|----------------------------|----------------------|
| <b>Client:</b>     | BioTech Remediation, Inc.    | <b>Client Sample Info:</b> | Thomas #1 Well       |
| <b>Work Order:</b> | 0008004                      | <b>Client Sample ID:</b>   | Travel Blank         |
| <b>Lab ID:</b>     | 0008004-01A                  | <b>Matrix:</b>             | AQUEOUS              |
| <b>Project:</b>    | Clayton Farm; Thomas #1 Well | <b>Collection Date:</b>    | 8/7/2000 10:00:00 AM |
|                    |                              | <b>COC Record:</b>         | 10844                |

| Parameter                           | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|-----|------|-------|----|---------------|
| <b>AROMATIC VOLATILES BY GC/PID</b> |        |     |      |       |    |               |
| Methyl tert-Butyl Ether             | ND     | 1   |      | µg/L  | 1  | 8/15/2000     |
| Benzene                             | ND     | 0.5 |      | µg/L  | 1  | 8/15/2000     |
| Toluene                             | ND     | 0.5 |      | µg/L  | 1  | 8/15/2000     |
| Ethylbenzene                        | ND     | 0.5 |      | µg/L  | 1  | 8/15/2000     |
| m,p-Xylene                          | ND     | 1   |      | µg/L  | 1  | 8/15/2000     |
| o-Xylene                            | ND     | 0.5 |      | µg/L  | 1  | 8/15/2000     |

**Qualifiers:** PQL - Practical Quantitation Limit      S - Spike Recovery outside accepted recovery limits  
ND - Not Detected at Practical Quantitation Limit      R - RPD outside accepted recovery limits  
J - Analyte detected below Practical Quantitation Limit      E - Value above quantitation range  
B - Analyte detected in the associated Method Blank      Surr: - Surrogate

I of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667  
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FAX: (505) 327-1496

## ANALYTICAL REPORT

Date: 21-Aug-00

|                    |                              |                            |                      |
|--------------------|------------------------------|----------------------------|----------------------|
| <b>Client:</b>     | BioTech Remediation, Inc.    | <b>Client Sample Info:</b> | Thomas #1 Well       |
| <b>Work Order:</b> | 0008004                      | <b>Client Sample ID:</b>   | MW-2                 |
| <b>Lab ID:</b>     | 0008004-02A                  | <b>Matrix:</b>             | AQUEOUS              |
| <b>Project:</b>    | Clayton Farm; Thomas #1 Well | <b>Collection Date:</b>    | 8/7/2000 11:37:00 AM |
|                    |                              | <b>COC Record:</b>         | 10844                |

| Parameter                           | Result | PQL | Qual           | Units | DF | Date Analyzed      |
|-------------------------------------|--------|-----|----------------|-------|----|--------------------|
| <b>AROMATIC VOLATILES BY GC/PID</b> |        |     |                |       |    |                    |
|                                     |        |     | <b>SW8021B</b> |       |    | <b>Analyst: DM</b> |
| Methyl tert-Butyl Ether             | ND     | 10  |                | µg/L  | 10 | 8/15/2000          |
| Benzene                             | 84     | 5   |                | µg/L  | 10 | 8/15/2000          |
| Toluene                             | ND     | 5   |                | µg/L  | 10 | 8/15/2000          |
| Ethylbenzene                        | 48     | 5   |                | µg/L  | 10 | 8/15/2000          |
| m,p-Xylene                          | 430    | 10  |                | µg/L  | 10 | 8/15/2000          |
| o-Xylene                            | 5.4    | 5   |                | µg/L  | 10 | 8/15/2000          |

|                    |                                                         |                                                     |
|--------------------|---------------------------------------------------------|-----------------------------------------------------|
| <b>Qualifiers:</b> | PQL - Practical Quantitation Limit                      | S - Spike Recovery outside accepted recovery limits |
|                    | ND - Not Detected at Practical Quantitation Limit       | R - RPD outside accepted recovery limits            |
|                    | J - Analyte detected below Practical Quantitation Limit | E - Value above quantitation range                  |
|                    | B - Analyte detected in the associated Method Blank     | Surr: - Surrogate                                   |

2 of 3

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



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FAX: (505) 327-1496

## ANALYTICAL REPORT

Date: 21-Aug-00

|                    |                              |                            |                     |
|--------------------|------------------------------|----------------------------|---------------------|
| <b>Client:</b>     | BioTech Remediation, Inc.    | <b>Client Sample Info:</b> | Thomas #1 Well      |
| <b>Work Order:</b> | 0008004                      | <b>Client Sample ID:</b>   | MW-3                |
| <b>Lab ID:</b>     | 0008004-03A                  | <b>Matrix:</b>             | AQUEOUS             |
| <b>Project:</b>    | Clayton Farm; Thomas #1 Well | <b>Collection Date:</b>    | 8/7/2000 1:47:00 PM |
|                    |                              | <b>COC Record:</b>         | 10844               |

| Parameter                           | Result | PQL | Qual           | Units | DF | Date Analyzed      |
|-------------------------------------|--------|-----|----------------|-------|----|--------------------|
| <b>AROMATIC VOLATILES BY GC/PID</b> |        |     |                |       |    |                    |
|                                     |        |     | <b>SW8021B</b> |       |    | <b>Analyst: DM</b> |
| Methyl tert-Butyl Ether             | ND     | 1   |                | µg/L  | 1  | 8/15/2000          |
| Benzene                             | ND     | 0.5 |                | µg/L  | 1  | 8/15/2000          |
| Toluene                             | 8.8    | 0.5 |                | µg/L  | 1  | 8/15/2000          |
| Ethylbenzene                        | 34     | 0.5 |                | µg/L  | 1  | 8/15/2000          |
| m,p-Xylene                          | 19     | 1   |                | µg/L  | 1  | 8/15/2000          |
| o-Xylene                            | 2.3    | 0.5 |                | µg/L  | 1  | 8/15/2000          |

|                    |                                                         |                                                     |
|--------------------|---------------------------------------------------------|-----------------------------------------------------|
| <b>Qualifiers:</b> | PQL - Practical Quantitation Limit                      | S - Spike Recovery outside accepted recovery limits |
|                    | ND - Not Detected at Practical Quantitation Limit       | R - RPD outside accepted recovery limits            |
|                    | J - Analyte detected below Practical Quantitation Limit | E - Value above quantitation range                  |
|                    | B - Analyte detected in the associated Method Blank     | Surr: - Surrogate                                   |

3 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 21-Aug-00

**CLIENT:** BioTech Remediation, Inc.

**Work Order:** 0008004

**Project:** Clayton Farm; Thomas #1 Well

**QC SUMMARY REPORT**

Method Blank

| Sample ID: <b>MB1</b>   | Batch ID: <b>GC-1_000815</b> | Test Code: <b>SW8021B</b> | Units: <b>µg/L</b> | Analysis Date: <b>8/15/2000</b> | Prep Date: |          |           |             |      |          |       |
|-------------------------|------------------------------|---------------------------|--------------------|---------------------------------|------------|----------|-----------|-------------|------|----------|-------|
| Client ID:              | Run ID:                      | <b>GC-1_000815A</b>       |                    | SeqNo: <b>30536</b>             |            |          |           |             |      |          |       |
| Analyte                 | Result                       | PQL                       | SPK value          | SPK Ref Val                     | %REC       | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual: |
| Benzene                 | .0381                        | 0.5                       |                    |                                 |            |          |           |             |      |          | J     |
| Ethylbenzene            | ND                           | 0.5                       |                    |                                 |            |          |           |             |      |          |       |
| m,p-Xylene              | ND                           | 1                         |                    |                                 |            |          |           |             |      |          |       |
| Methyl tert-Butyl Ether | ND                           | 1                         |                    |                                 |            |          |           |             |      |          |       |
| o-Xylene                | ND                           | 0.5                       |                    |                                 |            |          |           |             |      |          |       |
| Toluene                 | .0925                        | 0.5                       |                    |                                 |            |          |           |             |      |          |       |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 21-Aug-00

**QC SUMMARY REPORT**

Sample Matrix Spike

**CLIENT:** BioTech Remediation, Inc.

**Work Order:** 0008004

**Project:** Clayton Farm; Thomas #1 Well

| Sample ID:              | 0008002-01AMS   | Batch ID: | GC-1_000815  | Test Code: | SW8021B     | Units: | µg/L     | Analysis Date 8/15/2000 |             |      | Prep Date: |      |
|-------------------------|-----------------|-----------|--------------|------------|-------------|--------|----------|-------------------------|-------------|------|------------|------|
| Client ID:              | 0008004         | Run ID:   | GC-1_000815A | SeqNo:     | 30537       |        |          |                         |             |      |            |      |
| Analyte                 |                 | Result    | PQL          | SPK value  | SPK Ref Val | %REC   | LowLimit | HighLimit               | RPD Ref Val | %RPD | RPDLimit   | Qual |
| Benzene                 |                 | 5587      | 50           | 4000       | 1626        | 99.0%  | 88       | 112                     |             |      |            |      |
| Ethylbenzene            |                 | 4575      | 50           | 4000       | 606.5       | 99.2%  | 86       | 113                     |             |      |            |      |
| m,p-Xylene              |                 | 9359      | 100          | 8000       | 1601        | 97.0%  | 85       | 108                     |             |      |            |      |
| Methyl tert-Butyl Ether |                 | 3920      | 100          | 4000       | 0           | 98.0%  | 86       | 117                     |             |      |            |      |
| o-Xylene                |                 | 4280      | 50           | 4000       | 274.2       | 100.1% | 92       | 110                     |             |      |            |      |
| Toluene                 |                 | 4727      | 50           | 4000       | 740.6       | 99.7%  | 88       | 116                     |             |      |            |      |
| Sample ID:              | 0008002-01AMSSD | Batch ID: | GC-1_000815  | Test Code: | SW8021B     | Units: | µg/L     | Analysis Date 8/15/2000 |             |      | Prep Date: |      |
| Client ID:              | 0008004         | Run ID:   | GC-1_000815A | SeqNo:     | 30538       |        |          |                         |             |      |            |      |
| Analyte                 |                 | Result    | PQL          | SPK value  | SPK Ref Val | %REC   | LowLimit | HighLimit               | RPD Ref Val | %RPD | RPDLimit   | Qual |
| Benzene                 |                 | 5543      | 50           | 4000       | 1626        | 97.9%  | 88       | 112                     | 5587        | 0.8% | 6          |      |
| Ethylbenzene            |                 | 4546      | 50           | 4000       | 606.5       | 98.5%  | 86       | 113                     | 4575        | 0.7% | 6          |      |
| m,p-Xylene              |                 | 9298      | 100          | 8000       | 1601        | 96.2%  | 85       | 108                     | 9359        | 0.7% | 6          |      |
| Methyl tert-Butyl Ether |                 | 3923      | 100          | 4000       | 0           | 98.1%  | 86       | 117                     | 3920        | 0.1% | 7          |      |
| o-Xylene                |                 | 4254      | 50           | 4000       | 274.2       | 99.5%  | 92       | 110                     | 4280        | 0.6% | 6          |      |
| Toluene                 |                 | 4686      | 50           | 4000       | 740.6       | 98.6%  | 88       | 116                     | 4727        | 0.9% | 6          |      |

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

1 of 1

On Site Technologies, LTD.

Date: 21-Aug-00

**QC SUMMARY REPORT**

Client ID: 0008004 Project ID: 0008004 Run ID: GC-1\_000815A

Client Name: BioTech Remediation, Inc.

Work Order: 0008004

Project: Clayton Farm; Thomas #1 Well

| Sample ID: LCS WATER    | Batch ID: GC-1_000815 | Test Code: SW8021B | Units: µg/L | Analysis Date 8/15/2000 |        |          | Prep Date: |             |      |          |      |
|-------------------------|-----------------------|--------------------|-------------|-------------------------|--------|----------|------------|-------------|------|----------|------|
| Analyte                 | Result                | PQL                | SPK value   | SPK Ref Val             | %REC   | LowLimit | HighLimit  | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                 | 40.78                 | 0.5                | 40          | 0.04                    | 101.9% | 96       | 111        |             |      |          |      |
| Ethylbenzene            | 41.35                 | 0.5                | 40          | 0                       | 103.4% | 96       | 111        |             |      |          |      |
| m,p-Xylene              | 81.02                 | 1                  | 80          | 0                       | 101.3% | 92       | 105        |             |      |          |      |
| Methyl tert-Butyl Ether | 37.72                 | 1                  | 40          | 0                       | 94.3%  | 93       | 113        |             |      |          |      |
| o-Xylene                | 41.54                 | 0.5                | 40          | 0                       | 103.8% | 97       | 110        |             |      |          |      |
| Toluene                 | 40.95                 | 0.5                | 40          | 0.09                    | 102.2% | 97       | 109        |             |      |          |      |

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**On Site Technologies, LTD.****CLIENT:** BioTech Remediation, Inc.**Work Order:** 0008004**Project:** Clayton Farm; Thomas #1 Well

Date: 21-Aug-00

**QC SUMMARY REPORT**

## Continuing Calibration Verification Standard

| Sample ID: CCV1 BTEX_0007 | Batch ID: GC-1_000815 | Test Code: SW8021B | Units: µg/L |             |        |          | Analysis Date 8/15/2000 | Prep Date:  |      |          |      |
|---------------------------|-----------------------|--------------------|-------------|-------------|--------|----------|-------------------------|-------------|------|----------|------|
| Client ID:                | Run ID:               | GC-1_000815A       |             |             |        |          | SeqNo: 30533            |             |      |          |      |
| Analyte                   | Result                | PQL                | SPK value   | SPK Ref Val | %REC   | LowLimit | HighLimit               | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                   | 20.78                 | 0.5                | 20          | 0           | 103.9% | 85       | 115                     |             |      |          |      |
| Ethylbenzene              | 21.14                 | 0.5                | 20          | 0           | 105.7% | 85       | 115                     |             |      |          |      |
| m,p-Xylene                | 41.4                  | 1                  | 40          | 0           | 103.5% | 85       | 115                     |             |      |          |      |
| Methyl tert-Butyl Ether   | 18.26                 | 1                  | 20          | 0           | 91.3%  | 85       | 115                     |             |      |          |      |
| o-Xylene                  | 21.24                 | 0.5                | 20          | 0           | 106.2% | 85       | 115                     |             |      |          |      |
| Toluene                   | 20.94                 | 0.5                | 20          | 0           | 104.7% | 85       | 115                     |             |      |          |      |
| 1,4-Difluorobenzene       | 84                    | 0                  | 100         | 0           | 84.0%  | 79       | 101                     |             |      |          |      |
| 4-Bromochlorobenzene      | 82.29                 | 0                  | 100         | 0           | 82.3%  | 78       | 99                      |             |      |          |      |
| Fluorobenzene             | 82.13                 | 0                  | 100         | 0           | 82.1%  | 76       | 103                     |             |      |          |      |
| Sample ID: CCV2 BTEX_0007 | Batch ID: GC-1_000815 | Test Code: SW8021B | Units: µg/L |             |        |          | Analysis Date 8/15/2000 | Prep Date:  |      |          |      |
| Client ID:                | Run ID:               | GC-1_000815A       |             |             |        |          | SeqNo: 30534            |             |      |          |      |
| Analyte                   | Result                | PQL                | SPK value   | SPK Ref Val | %REC   | LowLimit | HighLimit               | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                   | 20.8                  | 0.5                | 20          | 0           | 104.0% | 85       | 115                     |             |      |          |      |
| Ethylbenzene              | 20.98                 | 0.5                | 20          | 0           | 104.9% | 85       | 115                     |             |      |          |      |
| m,p-Xylene                | 41.03                 | 1                  | 40          | 0           | 102.6% | 85       | 115                     |             |      |          |      |
| Methyl tert-Butyl Ether   | 18.02                 | 1                  | 20          | 0           | 90.1%  | 85       | 115                     |             |      |          |      |
| o-Xylene                  | 21.04                 | 0.5                | 20          | 0           | 105.2% | 85       | 115                     |             |      |          |      |
| Toluene                   | 20.86                 | 0.5                | 20          | 0           | 104.3% | 85       | 115                     |             |      |          |      |
| 1,4-Difluorobenzene       | 83.98                 | 0                  | 100         | 0           | 84.0%  | 79       | 101                     |             |      |          |      |
| 4-Bromochlorobenzene      | 81.27                 | 0                  | 100         | 0           | 81.3%  | 78       | 99                      |             |      |          |      |
| Fluorobenzene             | 81.9                  | 0                  | 100         | 0           | 81.9%  | 76       | 103                     |             |      |          |      |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 21-Aug-00

CLIENT: BioTech Remediation, Inc.  
Work Order: 0008004  
Project: Clayton Farm; Thomas #1 Well  
Test No: SW8021B

**QC SUMMARY REPORT  
SURROGATE RECOVERIES**

**Aromatic Volatiles by GC/PID**

| Sample ID       | 14FBZ  | 4BCBZ  | FLBZ   |  |  |  |  |  |  |
|-----------------|--------|--------|--------|--|--|--|--|--|--|
| 0008002-01A     | 83     | 82.2   | 82.2   |  |  |  |  |  |  |
| 0008002-01AMS   | 82.8   | 83.4   | 81.4   |  |  |  |  |  |  |
| 0008002-01AMSD  | 82.8   | 83.4   | 81.2   |  |  |  |  |  |  |
| 0008002-02A     | 83.6   | 83.3   | 83     |  |  |  |  |  |  |
| 0008004-01A     | 84.5   | 82.2   | 82.7   |  |  |  |  |  |  |
| 0008004-02A     | 82.9   | 81.5   | 81.7   |  |  |  |  |  |  |
| 0008004-03A     | 76.3 * | 73.6 * | 73.7 * |  |  |  |  |  |  |
| CCV1 BTEX_00070 | 84     | 82.3   | 82.1   |  |  |  |  |  |  |
| CCV2 BTEX_00070 | 84     | 81.3   | 81.9   |  |  |  |  |  |  |
| LCS WATER       | 82.9   | 82.4   | 81.7   |  |  |  |  |  |  |
| MB1             | 84.3   | 82.4   | 83     |  |  |  |  |  |  |

| Acronym | Surrogate              | QC Limits |
|---------|------------------------|-----------|
| 14FBZ   | = 1,4-Difluorobenzene  | 79-101    |
| 4BCBZ   | = 4-Bromochlorobenzene | 78-99     |
| FLBZ    | = Fluorobenzene        | 76-103    |

\* Surrogate recovery outside acceptance limits



## **CHAIN OF CUSTODY RECORD**

**612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499**  
**LAB: (505) 325-5667 • FAX: (505) 327-1496**

TECHNOLOGIES, LTD.

Date: \_\_\_\_\_

Page: \_\_\_\_\_ of \_\_\_\_\_

|                                                                                                                                     |  |                                                           |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------|--|
| Purchase Order No.: 12345678                                                                                                        |  | Project No.                                               |  |
| <b>INVOICE TO</b><br>Company Name _____<br>Address _____<br>City, State, Zip _____                                                  |  | Project Location: _____<br><br>Sampler's Signature: _____ |  |
| <b>REPORT TO</b><br>Company Name _____<br>Mailing Address _____<br>City, State, Zip _____<br>Telephone No. _____ Telefax No. _____  |  |                                                           |  |
| <b>ANALYSIS REQUESTED</b>                                                                                                           |  |                                                           |  |
| Number of Containers _____                                                                                                          |  |                                                           |  |
| LAB ID                                                                                                                              |  |                                                           |  |
| SAMPLE IDENTIFICATION                                                                                                               |  |                                                           |  |
| DATE      TIME      MATRIX      PRES.                                                                                               |  |                                                           |  |
| 12/01/2001      08:00      1000      1000<br>12/01/2001      08:00      1000      1000<br>12/01/2001      08:00      1000      1000 |  |                                                           |  |
| Relinquished by: _____ Date _____ Received by: _____ Date/Time _____                                                                |  |                                                           |  |
| Relinquished by: _____ Date _____ Received by: _____ Date/Time _____                                                                |  |                                                           |  |
| Relinquished by: _____ Date _____ Received by: _____ Date/Time _____                                                                |  |                                                           |  |
| Method of Shipment: _____                                                                                                           |  |                                                           |  |
| Rush      24-48 Hours      10 Working Days      By Date                                                                             |  |                                                           |  |
| Special Instructions / Remarks:<br><br>Client Signature Must Accompany Request                                                      |  |                                                           |  |



OFF: (505) 325-5667  
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FAX: (505) 327-1496

December 15, 2000

Terry Griffin  
BioTech Remediation, Inc.  
710 E. 20th, Suite 400  
Farmington, NM 87401  
TEL: (505) 327-4965  
FAX (505) 564-3604

RE: Thomas #1 Well; Clayton Farm

Order No.: 0012019

Dear Terry Griffin,

On Site Technologies, LTD. received 3 samples on 12/13/2000 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Aromatic Volatiles by GC/PID (SW8021B)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "David Cox".

David Cox

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: [ONSITE@ONSITELTD.COM](mailto:ONSITE@ONSITELTD.COM)

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667  
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LAB: (505) 325-1556  
FAX: (505) 327-1496

## On Site Technologies, LTD.

Date: 15-Dec-00

---

**CLIENT:** BioTech Remediation, Inc.  
**Project:** Thomas #1 Well; Clayton Farm  
**Lab Order:** 0012019

## CASE NARRATIVE

---

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).



OFF: (505) 325-5667  
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LAB: (505) 325-1556  
FAX: (505) 327-1496

## ANALYTICAL REPORT

Date: 15-Dec-00

|                    |                              |                            |                       |
|--------------------|------------------------------|----------------------------|-----------------------|
| <b>Client:</b>     | BioTech Remediation, Inc.    | <b>Client Sample Info:</b> | Clayton Farm          |
| <b>Work Order:</b> | 0012019                      | <b>Client Sample ID:</b>   | Trip Blank            |
| <b>Lab ID:</b>     | 0012019-01A                  | <b>Matrix:</b>             | AQUEOUS               |
| <b>Project:</b>    | Thomas #1 Well; Clayton Farm | <b>Collection Date:</b>    | 12/13/2000 9:30:00 AM |
|                    |                              | <b>COC Record:</b>         | 5287                  |

| Parameter                           | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|-----|------|-------|----|---------------|
| <b>AROMATIC VOLATILES BY GC/PID</b> |        |     |      |       |    |               |
| Methyl tert-Butyl Ether             | ND     | 1   |      | µg/L  | 1  | 12/13/2000    |
| Benzene                             | ND     | 0.5 |      | µg/L  | 1  | 12/13/2000    |
| Toluene                             | ND     | 0.5 |      | µg/L  | 1  | 12/13/2000    |
| Ethylbenzene                        | ND     | 0.5 |      | µg/L  | 1  | 12/13/2000    |
| m,p-Xylene                          | ND     | 1   |      | µg/L  | 1  | 12/13/2000    |
| o-Xylene                            | ND     | 0.5 |      | µg/L  | 1  | 12/13/2000    |

|                    |                                                         |                                                     |
|--------------------|---------------------------------------------------------|-----------------------------------------------------|
| <b>Qualifiers:</b> | PQL - Practical Quantitation Limit                      | S - Spike Recovery outside accepted recovery limits |
|                    | ND - Not Detected at Practical Quantitation Limit       | R - RPD outside accepted recovery limits            |
|                    | J - Analyte detected below Practical Quantitation Limit | E - Value above quantitation range                  |
|                    | B - Analyte detected in the associated Method Blank     | Surr. - Surrogate                                   |

1 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667  
FAX: (505) 327-1496

LAB: (505) 325-1556  
FAX: (505) 327-1496

## ANALYTICAL REPORT

Date: 15-Dec-00

|                    |                              |                            |                        |
|--------------------|------------------------------|----------------------------|------------------------|
| <b>Client:</b>     | BioTech Remediation, Inc.    | <b>Client Sample Info:</b> | Clayton Farm           |
| <b>Work Order:</b> | 0012019                      | <b>Client Sample ID:</b>   | MW #2                  |
| <b>Lab ID:</b>     | 0012019-02A                  | <b>Matrix:</b>             | AQUEOUS                |
| <b>Project:</b>    | Thomas #1 Well; Clayton Farm | <b>Collection Date:</b>    | 12/13/2000 10:05:00 AM |
|                    |                              | <b>COC Record:</b>         | 5287                   |

| Parameter                           | Result | PQL | Qual           | Units | DF | Date Analyzed      |
|-------------------------------------|--------|-----|----------------|-------|----|--------------------|
| <b>AROMATIC VOLATILES BY GC/PID</b> |        |     |                |       |    |                    |
|                                     |        |     | <b>SW8021B</b> |       |    | <b>Analyst: DM</b> |
| Methyl tert-Butyl Ether             | ND     | 10  |                | µg/L  | 10 | 12/13/2000         |
| Benzene                             | 120    | 5   |                | µg/L  | 10 | 12/13/2000         |
| Toluene                             | ND     | 5   |                | µg/L  | 10 | 12/13/2000         |
| Ethylbenzene                        | 56     | 5   |                | µg/L  | 10 | 12/13/2000         |
| m,p-Xylene                          | 380    | 10  |                | µg/L  | 10 | 12/13/2000         |
| o-Xylene                            | 14     | 5   |                | µg/L  | 10 | 12/13/2000         |

---

**Qualifiers:** PQL - Practical Quantitation Limit      S - Spike Recovery outside accepted recovery limits  
ND - Not Detected at Practical Quantitation Limit      R - RPD outside accepted recovery limits  
J - Analyte detected below Practical Quantitation Limit      E - Value above quantitation range  
B - Analyte detected in the associated Method Blank      Surr: - Surrogate

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P.O. BOX 2606 • FARMINGTON, NM 87499

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667  
FAX: (505) 327-1496

LAB: (505) 325-1556  
FAX: (505) 327-1496

## ANALYTICAL REPORT

Date: 15-Dec-00

|                    |                              |                            |                        |
|--------------------|------------------------------|----------------------------|------------------------|
| <b>Client:</b>     | BioTech Remediation, Inc.    | <b>Client Sample Info:</b> | Clayton Farm           |
| <b>Work Order:</b> | 0012019                      | <b>Client Sample ID:</b>   | MW #3                  |
| <b>Lab ID:</b>     | 0012019-03A                  | <b>Matrix:</b>             | AQUEOUS                |
| <b>Project:</b>    | Thomas #1 Well; Clayton Farm | <b>Collection Date:</b>    | 12/13/2000 10:27:00 AM |
|                    |                              | <b>COC Record:</b>         | 5287                   |

| Parameter                           | Result | PQL | Qual           | Units | DF | Date Analyzed |
|-------------------------------------|--------|-----|----------------|-------|----|---------------|
| <b>AROMATIC VOLATILES BY GC/PID</b> |        |     |                |       |    |               |
|                                     |        |     | <b>SW8021B</b> |       |    | Analyst: DM   |
| Methyl tert-Butyl Ether             | ND     | 1   |                | µg/L  | 1  | 12/13/2000    |
| Benzene                             | ND     | 0.5 |                | µg/L  | 1  | 12/13/2000    |
| Toluene                             | 5.3    | 0.5 |                | µg/L  | 1  | 12/13/2000    |
| Ethylbenzene                        | 13     | 0.5 |                | µg/L  | 1  | 12/13/2000    |
| m,p-Xylene                          | 6.7    | 1   |                | µg/L  | 1  | 12/13/2000    |
| o-Xylene                            | 3.3    | 0.5 |                | µg/L  | 1  | 12/13/2000    |

|                    |                                                         |                                                     |
|--------------------|---------------------------------------------------------|-----------------------------------------------------|
| <b>Qualifiers:</b> | PQL - Practical Quantitation Limit                      | S - Spike Recovery outside accepted recovery limits |
|                    | ND - Not Detected at Practical Quantitation Limit       | R - RPD outside accepted recovery limits            |
|                    | J - Analyte detected below Practical Quantitation Limit | E - Value above quantitation range                  |
|                    | B - Analyte detected in the associated Method Blank     | Surr: - Surrogate                                   |

3 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 15-Dec-00

**QC SUMMARY REPORT**

Method Blank

**CLIENT:** BioTech Remediation, Inc.

**Work Order:** 0012019

**Project:** Thomas #1 Well; Clayton Farm

| Sample ID: <b>MB1</b>     | Batch ID: <b>GC-1_001213</b> | Test Code: <b>SW8021B</b> | Units: <b>µg/L</b> | Analysis Date: <b>12/13/2000</b> | Prep Date: |          |           |             |      |          |      |
|---------------------------|------------------------------|---------------------------|--------------------|----------------------------------|------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>0012019</b> | Run ID: <b>GC-1_001213A</b>  |                           |                    | SeqNo: <b>33377</b>              |            |          |           |             |      |          |      |
| Analyte                   | Result                       | PQL                       | SPK value          | SPK Ref Val                      | %REC       | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                   | ND                           |                           | 0.5                |                                  |            |          |           |             |      |          | J    |
| Ethylbenzene              | .1164                        |                           | 0.5                |                                  |            |          |           |             |      |          | J    |
| m,p-Xylene                | .2034                        |                           | 1                  |                                  |            |          |           |             |      |          | J    |
| Methyl (tert-Butyl) Ether | ND                           |                           | 1                  |                                  |            |          |           |             |      |          |      |
| o-Xylene                  | .0837                        |                           | 0.5                |                                  |            |          |           |             |      |          | J    |
| Toluene                   | ND                           |                           | 0.5                |                                  |            |          |           |             |      |          |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## On Site Technologies, LTD.

**CLIENT:** BioTech Remediation, Inc.  
**Work Order:** 0012019  
**Project:** Thomas #1 Well; Clayton Farm

Date: 15-Dec-00

## QC SUMMARY REPORT

### Sample Matrix Spike

| Sample ID: 0012014-03AMSD | Batch ID: GC-1_001213 | Test Code: SW8021B | Units: µg/L | Analysis Date 12/13/2000 |       |          | Prep Date: |             |      |          |      |
|---------------------------|-----------------------|--------------------|-------------|--------------------------|-------|----------|------------|-------------|------|----------|------|
| Client ID:                | Run ID: GC-1_001213A  | PQL                | SPK value   | SPK Ref Val              | %REC  | LowLimit | HighLimit  | RPD Ref Val | %RPD | RPDLimit | Qual |
| Analyte                   | Result                |                    |             |                          |       |          |            |             |      |          |      |
| Benzene                   | 2530                  | 10                 | 800         | 1745                     | 98.1% | 88       | 112        |             |      |          |      |
| Ethylbenzene              | 1316                  | 10                 | 800         | 557                      | 94.9% | 86       | 113        |             |      |          |      |
| m,p-Xylene                | 3542                  | 20                 | 1600        | 2039                     | 93.9% | 85       | 108        |             |      |          |      |
| Methyl tert-Butyl Ether   | 2082                  | 20                 | 800         | 1387                     | 86.9% | 86       | 117        |             |      |          |      |
| o-Xylene                  | 993.6                 | 10                 | 800         | 225.1                    | 96.1% | 92       | 110        |             |      |          |      |
| Toluene                   | 1665                  | 10                 | 800         | 889.1                    | 97.0% | 88       | 116        |             |      |          |      |
| Sample ID: 0012014-03AMSD | Batch ID: GC-1_001213 | Test Code: SW8021B | Units: µg/L | Analysis Date 12/13/2000 |       |          | Prep Date: |             |      |          |      |
| Client ID:                | Run ID: GC-1_001213A  | PQL                | SPK value   | SPK Ref Val              | %REC  | LowLimit | HighLimit  | RPD Ref Val | %RPD | RPDLimit | Qual |
| Analyte                   | Result                |                    |             |                          |       |          |            |             |      |          |      |
| Benzene                   | 2459                  | 10                 | 800         | 1745                     | 89.3% | 88       | 112        | 2530        | 2.8% | 6        |      |
| Ethylbenzene              | 1279                  | 10                 | 800         | 557                      | 90.2% | 86       | 113        | 1316        | 2.9% | 6        |      |
| m,p-Xylene                | 3441                  | 20                 | 1600        | 2039                     | 87.6% | 85       | 108        | 3542        | 2.9% | 6        |      |
| Methyl tert-Butyl Ether   | 2106                  | 20                 | 800         | 1387                     | 89.9% | 86       | 117        | 2082        | 1.1% | 7        |      |
| o-Xylene                  | 968.2                 | 10                 | 800         | 225.1                    | 92.9% | 92       | 110        | 993.6       | 2.6% | 6        |      |
| Toluene                   | 1616                  | 10                 | 800         | 889.1                    | 90.8% | 88       | 116        | 1665        | 3.0% | 6        |      |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

**On Site Technologies, LTD.****CLIENT:** BioTech Remediation, Inc.**Work Order:** 0012019**Project:** Thomas #1 Well; Clayton Farm

Date: 15-Dec-00

**QC SUMMARY REPORT**

Laboratory Control Spike - generic

| Sample ID: <b>LCS WATER</b> | Batch ID: <b>GC-1_001213</b> | Test Code: <b>SW8021B</b> | Units: <b>µg/L</b> | Analysis Date <b>12/13/2000</b> |              |          | Prep Date: |             |      |          |      |
|-----------------------------|------------------------------|---------------------------|--------------------|---------------------------------|--------------|----------|------------|-------------|------|----------|------|
| Client ID:                  | Run ID:                      | <b>GC-1_001213A</b>       |                    | SeqNo:                          | <b>33376</b> |          |            |             |      |          |      |
| Analyte                     | Result                       | PQL                       | SPK value          | SPK Ref Val                     | %REC         | LowLimit | HighLimit  | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                     | 39.67                        | 0.5                       | 40                 | 0                               | 99.2%        | 96       | 111        |             |      |          |      |
| Ethylbenzene                | 38.58                        | 0.5                       | 40                 | 0.1164                          | 96.2%        | 96       | 111        |             |      |          |      |
| m,p-Xylene                  | 76.97                        | 1                         | 80                 | 0.2034                          | 96.0%        | 92       | 105        |             |      |          |      |
| Methyl tert-Butyl Ether     | 39.07                        | 1                         | 40                 | 0                               | 97.7%        | 93       | 113        |             |      |          |      |
| o-Xylene                    | 39                           | 0.5                       | 40                 | 0.0837                          | 97.3%        | 97       | 110        |             |      |          |      |
| Toluene                     | 39.19                        | 0.5                       | 40                 | 0                               | 98.0%        | 97       | 109        |             |      |          |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limitsS - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**On Site Technologies, LTD.**

**CLIENT:** BioTech Remediation, Inc.

**Work Order:** 0012019

**Project:** Thomas #1 Well; Clayton Farm

Date: 15-Dec-00

**QC SUMMARY REPORT**

Continuing Calibration Verification Standard

| Sample ID:              | CCV1_BTEX_0012 | Batch ID: | GC-1_001213  | Test Code: | SW8021B     | Units: µg/L | Analysis Date 12/13/2000 |           |             | Prep Date: |          |      |
|-------------------------|----------------|-----------|--------------|------------|-------------|-------------|--------------------------|-----------|-------------|------------|----------|------|
| Client ID:              | 0012019        | Run ID:   | GC-1_001213A |            |             |             | SeqNo:                   | 33373     |             |            |          |      |
| Analyte                 |                | Result    | PQL          | SPK value  | SPK Ref Val | %REC        | LowLimit                 | HighLimit | RPD Ref Val | %RPD       | RPDLimit | Qual |
| Benzene                 | 20.19          | 0.5       | 20           | 0          | 0           | 100.9%      | 85                       | 115       |             |            |          |      |
| Ethylbenzene            | 19.91          | 0.5       | 20           | 0          | 0           | 99.5%       | 85                       | 115       |             |            |          |      |
| m,p-Xylene              | 39.65          | 1         | 40           | 0          | 0           | 99.1%       | 85                       | 115       |             |            |          |      |
| Methyl tert-Butyl Ether | 19.82          | 1         | 20           | 0          | 0           | 99.1%       | 85                       | 115       |             |            |          |      |
| o-Xylene                | 19.96          | 0.5       | 20           | 0          | 0           | 99.8%       | 85                       | 115       |             |            |          |      |
| Toluene                 | 19.94          | 0.5       | 20           | 0          | 0           | 99.7%       | 85                       | 115       |             |            |          |      |
| 1,4-Difluorobenzene     | 74.08          | 0         | 80           | 0          | 0           | 92.6%       | 70                       | 130       |             |            |          |      |
| 4-Bromochlorobenzene    | 82.53          | 0         | 80           | 0          | 0           | 103.2%      | 70                       | 130       |             |            |          |      |
| Fluorobenzene           | 74.74          | 0         | 80           | 0          | 0           | 93.4%       | 70                       | 130       |             |            |          |      |
| <hr/>                   |                |           |              |            |             |             |                          |           |             |            |          |      |
| Sample ID:              | CCV2_BTEX_0012 | Batch ID: | GC-1_001213  | Test Code: | SW8021B     | Units: µg/L | Analysis Date 12/13/2000 |           |             | Prep Date: |          |      |
| Client ID:              | 0012019        | Run ID:   | GC-1_001213A |            |             |             | SeqNo:                   | 33374     |             |            |          |      |
| Analyte                 |                | Result    | PQL          | SPK value  | SPK Ref Val | %REC        | LowLimit                 | HighLimit | RPD Ref Val | %RPD       | RPDLimit | Qual |
| Benzene                 | 19.58          | 0.5       | 20           | 0          | 0           | 97.9%       | 85                       | 115       |             |            |          |      |
| Ethylbenzene            | 19.29          | 0.5       | 20           | 0          | 0           | 96.5%       | 85                       | 115       |             |            |          |      |
| m,p-Xylene              | 38.59          | 1         | 40           | 0          | 0           | 96.5%       | 85                       | 115       |             |            |          |      |
| Methyl tert-Butyl Ether | 19.41          | 1         | 20           | 0          | 0           | 97.0%       | 85                       | 115       |             |            |          |      |
| o-Xylene                | 19.51          | 0.5       | 20           | 0          | 0           | 97.6%       | 85                       | 115       |             |            |          |      |
| Toluene                 | 19.42          | 0.5       | 20           | 0          | 0           | 97.1%       | 85                       | 115       |             |            |          |      |
| 1,4-Difluorobenzene     | 74.88          | 0         | 80           | 0          | 0           | 93.6%       | 70                       | 130       |             |            |          |      |
| 4-Bromochlorobenzene    | 80.82          | 0         | 80           | 0          | 0           | 101.0%      | 70                       | 130       |             |            |          |      |
| Fluorobenzene           | 76.8           | 0         | 80           | 0          | 0           | 96.0%       | 70                       | 130       |             |            |          |      |

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** BioTech Remediation, Inc.

**Work Order:** 0012019

**Project:** Thomas #1 Well; Clayton Farm

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

| Sample ID:              | CCV3_BTEX_0012 | Batch ID: | GC-1_001213 | Test Code: | SW8021B      | Units: | µg/L     | Analysis Date: | 12/13/2000  | Prep Date: |          |      |
|-------------------------|----------------|-----------|-------------|------------|--------------|--------|----------|----------------|-------------|------------|----------|------|
| Client ID:              |                | 0012019   |             | Run ID:    | GC-1_001213A |        |          | SeqNo:         | 33375       |            |          |      |
| Analyte                 |                | Result    | PQL         | SPK value  | SPK Ref Val  | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD       | RPDLimit | Qual |
| Benzene                 |                | 38.44     | 0.5         | 40         | 0            | 96.1%  | 85       | 115            |             |            |          |      |
| Ethylbenzene            |                | 37.27     | 0.5         | 40         | 0            | 93.2%  | 85       | 115            |             |            |          |      |
| m,p-Xylene              |                | 74.24     | 1           | 80         | 0            | 92.8%  | 85       | 115            |             |            |          |      |
| Methyl tert-Butyl Ether |                | 38.56     | 1           | 40         | 0            | 96.4%  | 85       | 115            |             |            |          |      |
| o-Xylene                |                | 37.86     | 0.5         | 40         | 0            | 94.7%  | 85       | 115            |             |            |          |      |
| Toluene                 |                | 37.98     | 0.5         | 40         | 0            | 94.9%  | 85       | 115            |             |            |          |      |
| 1,4-Difluorobenzene     |                | 75.12     | 0           | 80         | 0            | 93.9%  | 70       | 130            |             |            |          |      |
| 4-Bromochlorobenzene    |                | 81.04     | 0           | 80         | 0            | 101.3% | 70       | 130            |             |            |          |      |
| Fluorobenzene           |                | 76.31     | 0           | 80         | 0            | 95.4%  | 70       | 130            |             |            |          |      |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

**CLIENT:** BioTech Remediation, Inc.  
**Work Order:** 0012019  
**Project:** Thomas #1 Well; Clayton Farm  
**Test No:** SW8021B

**QC SUMMARY REPORT**  
**SURROGATE RECOVERIES**  
**Aromatic Volatiles by GC/PID**

| Sample ID       | 14FBZ | 4BCBZ | FLBZ |  |  |  |  |  |
|-----------------|-------|-------|------|--|--|--|--|--|
| 0012002-01A     | 92.2  | 97    | 95.9 |  |  |  |  |  |
| 0012002-03A     | 91.9  | 98.1  | 95.1 |  |  |  |  |  |
| 0012007-01A     | 90.3  | 96.7  | 92.5 |  |  |  |  |  |
| 0012007-02A     | 93.8  | 98.3  | 96.2 |  |  |  |  |  |
| 0012007-03A     | 88.2  | 94.7  | 90.2 |  |  |  |  |  |
| 0012007-04A     | 90.5  | 95    | 93.5 |  |  |  |  |  |
| 0012007-05A     | 95.3  | 99.6  | 96.6 |  |  |  |  |  |
| 0012008-01A     | 94.9  | 99.5  | 97.3 |  |  |  |  |  |
| 0012011-01A     | 95.2  | 100   | 97.4 |  |  |  |  |  |
| 0012011-02A     | 93.6  | 101   | 96.7 |  |  |  |  |  |
| 0012011-03A     | 96.1  | 104   | 99   |  |  |  |  |  |
| 0012011-04A     | 94.2  | 100   | 97.5 |  |  |  |  |  |
| 0012011-05A     | 94.3  | 100   | 96.3 |  |  |  |  |  |
| 0012014-01A     | 94    | 98.4  | 97.5 |  |  |  |  |  |
| 0012014-02A     | 94.9  | 100   | 97.1 |  |  |  |  |  |
| 0012014-03A     | 92.1  | 101   | 94   |  |  |  |  |  |
| 0012014-03AMS   | 92    | 101   | 93.8 |  |  |  |  |  |
| 0012014-03AMSD  | 92.4  | 101   | 93.2 |  |  |  |  |  |
| 0012014-04A     | 93.6  | 100   | 96.3 |  |  |  |  |  |
| 0012019-01A     | 94.3  | 100   | 97.3 |  |  |  |  |  |
| 0012019-02A     | 91    | 97.2  | 93.6 |  |  |  |  |  |
| 0012019-03A     | 84.4  | 88.3  | 87.1 |  |  |  |  |  |
| CCV1 BTEX_00121 | 92.6  | 103   | 93.4 |  |  |  |  |  |
| CCV2 BTEX_00121 | 93.6  | 101   | 96   |  |  |  |  |  |
| CCV3 BTEX_00121 | 93.9  | 101   | 95.4 |  |  |  |  |  |
| LCS WATER       | 93.2  | 103   | 95.6 |  |  |  |  |  |
| MB1             | 93.5  | 104   | 94.6 |  |  |  |  |  |

| Acronym | Surrogate              | QC Limits |
|---------|------------------------|-----------|
| 14FBZ   | = 1,4-Difluorobenzene  | 70-130    |
| 4BCBZ   | = 4-Bromochlorobenzene | 70-130    |
| FLBZ    | = Fluorobenzene        | 70-130    |

\* Surrogate recovery outside acceptance limits

ON SITE

TECHNOLOGIES, LTD.

5557 W. Maple • P. O. Box 2606 • Farmington NM 87499  
LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

18

Page 5 of 4

| Purchase Order No.: 12345678 |          | Job No.                | Name               |                  | Address          | Title    |       |
|------------------------------|----------|------------------------|--------------------|------------------|------------------|----------|-------|
| Name                         | John Doe |                        | Company            | ABC Laboratories | 123 Main Street  | Analyst  |       |
| Company                      |          |                        | Mailing Address    | 123 Main Street  | City, State, Zip | 12345    |       |
| Address                      |          |                        | Telephone No.      | 555-1234         | Telephone No.    | 555-1234 |       |
| City, State, Zip             |          |                        |                    |                  |                  |          |       |
| Sampling Location:           | Site A   |                        | ANALYSIS REQUESTED |                  |                  |          |       |
| Sampler:                     | John Doe |                        |                    |                  |                  |          |       |
| REPOORT TO                   |          | Number of Contaminants | LAB ID             |                  |                  |          |       |
| RESULTS TO                   |          |                        | SAMPLE             | DATE             | TIME             | MATRIX   | PRES. |
| INVOICE TO                   |          |                        | 1                  | 12/12/2023       | 14:30            | Water    | ✓     |
| SEND TO                      |          |                        | 2                  | 12/12/2023       | 15:00            | Water    | ✓     |
| INVOICE                      |          |                        | 3                  | 12/12/2023       | 15:30            | Water    | ✓     |
| TO                           |          |                        | 4                  | 12/12/2023       | 16:00            | Water    | ✓     |
| INVOICE                      |          |                        | 5                  | 12/12/2023       | 16:30            | Water    | ✓     |
| SEND                         |          |                        | 6                  | 12/12/2023       | 17:00            | Water    | ✓     |
| INVOICE                      |          |                        | 7                  | 12/12/2023       | 17:30            | Water    | ✓     |
| TO                           |          |                        | 8                  | 12/12/2023       | 18:00            | Water    | ✓     |
| INVOICE                      |          |                        | 9                  | 12/12/2023       | 18:30            | Water    | ✓     |
| SEND                         |          |                        | 10                 | 12/12/2023       | 19:00            | Water    | ✓     |
| INVOICE                      |          |                        | 11                 | 12/12/2023       | 19:30            | Water    | ✓     |
| TO                           |          |                        | 12                 | 12/12/2023       | 20:00            | Water    | ✓     |
| INVOICE                      |          |                        | 13                 | 12/12/2023       | 20:30            | Water    | ✓     |
| SEND                         |          |                        | 14                 | 12/12/2023       | 21:00            | Water    | ✓     |
| INVOICE                      |          |                        | 15                 | 12/12/2023       | 21:30            | Water    | ✓     |
| TO                           |          |                        | 16                 | 12/12/2023       | 22:00            | Water    | ✓     |
| INVOICE                      |          |                        | 17                 | 12/12/2023       | 22:30            | Water    | ✓     |
| SEND                         |          |                        | 18                 | 12/12/2023       | 23:00            | Water    | ✓     |
| INVOICE                      |          |                        | 19                 | 12/12/2023       | 23:30            | Water    | ✓     |
| TO                           |          |                        | 20                 | 12/12/2023       | 00:00            | Water    | ✓     |
| INVOICE                      |          |                        | 21                 | 12/12/2023       | 00:30            | Water    | ✓     |
| SEND                         |          |                        | 22                 | 12/12/2023       | 01:00            | Water    | ✓     |
| INVOICE                      |          |                        | 23                 | 12/12/2023       | 01:30            | Water    | ✓     |
| TO                           |          |                        | 24                 | 12/12/2023       | 02:00            | Water    | ✓     |
| INVOICE                      |          |                        | 25                 | 12/12/2023       | 02:30            | Water    | ✓     |
| SEND                         |          |                        | 26                 | 12/12/2023       | 03:00            | Water    | ✓     |
| INVOICE                      |          |                        | 27                 | 12/12/2023       | 03:30            | Water    | ✓     |
| TO                           |          |                        | 28                 | 12/12/2023       | 04:00            | Water    | ✓     |
| INVOICE                      |          |                        | 29                 | 12/12/2023       | 04:30            | Water    | ✓     |
| SEND                         |          |                        | 30                 | 12/12/2023       | 05:00            | Water    | ✓     |
| INVOICE                      |          |                        | 31                 | 12/12/2023       | 05:30            | Water    | ✓     |
| TO                           |          |                        | 32                 | 12/12/2023       | 06:00            | Water    | ✓     |
| INVOICE                      |          |                        | 33                 | 12/12/2023       | 06:30            | Water    | ✓     |
| SEND                         |          |                        | 34                 | 12/12/2023       | 07:00            | Water    | ✓     |
| INVOICE                      |          |                        | 35                 | 12/12/2023       | 07:30            | Water    | ✓     |
| TO                           |          |                        | 36                 | 12/12/2023       | 08:00            | Water    | ✓     |
| INVOICE                      |          |                        | 37                 | 12/12/2023       | 08:30            | Water    | ✓     |
| SEND                         |          |                        | 38                 | 12/12/2023       | 09:00            | Water    | ✓     |
| INVOICE                      |          |                        | 39                 | 12/12/2023       | 09:30            | Water    | ✓     |
| TO                           |          |                        | 40                 | 12/12/2023       | 10:00            | Water    | ✓     |
| INVOICE                      |          |                        | 41                 | 12/12/2023       | 10:30            | Water    | ✓     |
| SEND                         |          |                        | 42                 | 12/12/2023       | 11:00            | Water    | ✓     |
| INVOICE                      |          |                        | 43                 | 12/12/2023       | 11:30            | Water    | ✓     |
| TO                           |          |                        | 44                 | 12/12/2023       | 12:00            | Water    | ✓     |
| INVOICE                      |          |                        | 45                 | 12/12/2023       | 12:30            | Water    | ✓     |
| SEND                         |          |                        | 46                 | 12/12/2023       | 13:00            | Water    | ✓     |
| INVOICE                      |          |                        | 47                 | 12/12/2023       | 13:30            | Water    | ✓     |
| TO                           |          |                        | 48                 | 12/12/2023       | 14:00            | Water    | ✓     |
| INVOICE                      |          |                        | 49                 | 12/12/2023       | 14:30            | Water    | ✓     |
| SEND                         |          |                        | 50                 | 12/12/2023       | 15:00            | Water    | ✓     |
| INVOICE                      |          |                        | 51                 | 12/12/2023       | 15:30            | Water    | ✓     |
| TO                           |          |                        | 52                 | 12/12/2023       | 16:00            | Water    | ✓     |
| INVOICE                      |          |                        | 53                 | 12/12/2023       | 16:30            | Water    | ✓     |
| SEND                         |          |                        | 54                 | 12/12/2023       | 17:00            | Water    | ✓     |
| INVOICE                      |          |                        | 55                 | 12/12/2023       | 17:30            | Water    | ✓     |
| TO                           |          |                        | 56                 | 12/12/2023       | 18:00            | Water    | ✓     |
| INVOICE                      |          |                        | 57                 | 12/12/2023       | 18:30            | Water    | ✓     |
| SEND                         |          |                        | 58                 | 12/12/2023       | 19:00            | Water    | ✓     |
| INVOICE                      |          |                        | 59                 | 12/12/2023       | 19:30            | Water    | ✓     |
| TO                           |          |                        | 60                 | 12/12/2023       | 20:00            | Water    | ✓     |
| INVOICE                      |          |                        | 61                 | 12/12/2023       | 20:30            | Water    | ✓     |
| SEND                         |          |                        | 62                 | 12/12/2023       | 21:00            | Water    | ✓     |
| INVOICE                      |          |                        | 63                 | 12/12/2023       | 21:30            | Water    | ✓     |
| TO                           |          |                        | 64                 | 12/12/2023       | 22:00            | Water    | ✓     |
| INVOICE                      |          |                        | 65                 | 12/12/2023       | 22:30            | Water    | ✓     |
| SEND                         |          |                        | 66                 | 12/12/2023       | 23:00            | Water    | ✓     |
| INVOICE                      |          |                        | 67                 | 12/12/2023       | 23:30            | Water    | ✓     |
| TO                           |          |                        | 68                 | 12/12/2023       | 00:00            | Water    | ✓     |
| INVOICE                      |          |                        | 69                 | 12/12/2023       | 00:30            | Water    | ✓     |
| SEND                         |          |                        | 70                 | 12/12/2023       | 01:00            | Water    | ✓     |
| INVOICE                      |          |                        | 71                 | 12/12/2023       | 01:30            | Water    | ✓     |
| TO                           |          |                        | 72                 | 12/12/2023       | 02:00            | Water    | ✓     |
| INVOICE                      |          |                        | 73                 | 12/12/2023       | 02:30            | Water    | ✓     |
| SEND                         |          |                        | 74                 | 12/12/2023       | 03:00            | Water    | ✓     |
| INVOICE                      |          |                        | 75                 | 12/12/2023       | 03:30            | Water    | ✓     |
| TO                           |          |                        | 76                 | 12/12/2023       | 04:00            | Water    | ✓     |
| INVOICE                      |          |                        | 77                 | 12/12/2023       | 04:30            | Water    | ✓     |
| SEND                         |          |                        | 78                 | 12/12/2023       | 05:00            | Water    | ✓     |
| INVOICE                      |          |                        | 79                 | 12/12/2023       | 05:30            | Water    | ✓     |
| TO                           |          |                        | 80                 | 12/12/2023       | 06:00            | Water    | ✓     |
| INVOICE                      |          |                        | 81                 | 12/12/2023       | 06:30            | Water    | ✓     |
| SEND                         |          |                        | 82                 | 12/12/2023       | 07:00            | Water    | ✓     |
| INVOICE                      |          |                        | 83                 | 12/12/2023       | 07:30            | Water    | ✓     |
| TO                           |          |                        | 84                 | 12/12/2023       | 08:00            | Water    | ✓     |
| INVOICE                      |          |                        | 85                 | 12/12/2023       | 08:30            | Water    | ✓     |
| SEND                         |          |                        | 86                 | 12/12/2023       | 09:00            | Water    | ✓     |
| INVOICE                      |          |                        | 87                 | 12/12/2023       | 09:30            | Water    | ✓     |
| TO                           |          |                        | 88                 | 12/12/2023       | 10:00            | Water    | ✓     |
| INVOICE                      |          |                        | 89                 | 12/12/2023       | 10:30            | Water    | ✓     |
| SEND                         |          |                        | 90                 | 12/12/2023       | 11:00            | Water    | ✓     |
| INVOICE                      |          |                        | 91                 | 12/12/2023       | 11:30            | Water    | ✓     |
| TO                           |          |                        | 92                 | 12/12/2023       | 12:00            | Water    | ✓     |
| INVOICE                      |          |                        | 93                 | 12/12/2023       | 12:30            | Water    | ✓     |
| SEND                         |          |                        | 94                 | 12/12/2023       | 13:00            | Water    | ✓     |
| INVOICE                      |          |                        | 95                 | 12/12/2023       | 13:30            | Water    | ✓     |
| TO                           |          |                        | 96                 | 12/12/2023       | 14:00            | Water    | ✓     |
| INVOICE                      |          |                        | 97                 | 12/12/2023       | 14:30            | Water    | ✓     |
| SEND                         |          |                        | 98                 | 12/12/2023       | 15:00            | Water    | ✓     |
| INVOICE                      |          |                        | 99                 | 12/12/2023       | 15:30            | Water    | ✓     |
| TO                           |          |                        | 100                | 12/12/2023       | 16:00            | Water    | ✓     |
| INVOICE                      |          |                        | 101                | 12/12/2023       | 16:30            | Water    | ✓     |
| SEND                         |          |                        | 102                | 12/12/2023       | 17:00            | Water    | ✓     |
| INVOICE                      |          |                        | 103                | 12/12/2023       | 17:30            | Water    | ✓     |
| TO                           |          |                        | 104                | 12/12/2023       | 18:00            | Water    | ✓     |
| INVOICE                      |          |                        | 105                | 12/12/2023       | 18:30            | Water    | ✓     |
| SEND                         |          |                        | 106                | 12/12/2023       | 19:00            | Water    | ✓     |
| INVOICE                      |          |                        | 107                | 12/12/2023       | 19:30            | Water    | ✓     |
| TO                           |          |                        | 108                | 12/12/2023       | 20:00            | Water    | ✓     |
| INVOICE                      |          |                        | 109                | 12/12/2023       | 20:30            | Water    | ✓     |
| SEND                         |          |                        | 110                | 12/12/2023       | 21:00            | Water    | ✓     |
| INVOICE                      |          |                        | 111                | 12/12/2023       | 21:30            | Water    | ✓     |
| TO                           |          |                        | 112                | 12/12/2023       | 22:00            | Water    | ✓     |
| INVOICE                      |          |                        | 113                | 12/12/2023       | 22:30            | Water    | ✓     |
| SEND                         |          |                        | 114                | 12/12/2023       | 23:00            | Water    | ✓     |
| INVOICE                      |          |                        | 115                | 12/12/2023       | 23:30            | Water    | ✓     |
| TO                           |          |                        | 116                | 12/12/2023       | 00:00            | Water    | ✓     |
| INVOICE                      |          |                        | 117                | 12/12/2023       | 00:30            | Water    | ✓     |
| SEND                         |          |                        | 118                | 12/12/2023       | 01:00            | Water    | ✓     |
| INVOICE                      |          |                        | 119                | 12/12/2023       | 01:30            | Water    | ✓     |
| TO                           |          |                        | 120                | 12/12/2023       | 02:00            | Water    | ✓     |
| INVOICE                      |          |                        | 121                | 12/12/2023       | 02:30            | Water    | ✓     |
| SEND                         |          |                        | 122                | 12/12/2023       | 03:00            | Water    | ✓     |
| INVOICE                      |          |                        | 123                | 12/12/2023       | 03:30            | Water    | ✓     |
| TO                           |          |                        | 124                | 12/12/2023       | 04:00            | Water    | ✓     |
| INVOICE                      |          |                        | 125                | 12/12/2023       | 04:30            | Water    | ✓     |
| SEND                         |          |                        | 126                | 12/12/2023       | 05:00            | Water    | ✓     |
| INVOICE                      |          |                        | 127                | 12/12/2023       | 05:30            | Water    | ✓     |
| TO                           |          |                        | 128                | 12/12/2023       | 06:00            | Water    | ✓     |
| INVOICE                      |          |                        | 129                | 12/12/2023       | 06:30            | Water    | ✓     |
| SEND                         |          |                        | 130                | 12/12/2023       | 07:00            | Water    | ✓     |
| INVOICE                      |          |                        | 131                | 12/12/2023       | 07:30            | Water    | ✓     |
| TO                           |          |                        | 132                | 12/12/2023       | 08:00            | Water    | ✓     |
| INVOICE                      |          |                        | 133                | 12/12/2023       | 08:30            | Water    | ✓     |
| SEND                         |          |                        | 134                | 12/12/2023       | 09:00            | Water    | ✓     |
| INVOICE                      |          |                        | 135                | 12/12/2023       | 09:30            | Water    | ✓     |
| TO                           |          |                        | 136                | 12/12/2023       | 10:00            | Water    | ✓     |
| INVOICE                      |          |                        | 137                | 12/12/2023       | 10:30            | Water    | ✓     |
| SEND                         |          |                        | 138                | 12/12/2023       | 11:00            | Water    | ✓     |
| INVOICE                      |          |                        | 139                | 12/12/2023       | 11:30            | Water    | ✓     |
| TO                           |          |                        | 140                | 12/12/2023       | 12:00            | Water    | ✓     |
| INVOICE                      |          |                        | 141                | 12/12/2023       | 12:30            | Water    | ✓     |
| SEND                         |          |                        | 142                | 12/12/2023       | 13:00            | Water    | ✓     |
| INVOICE                      |          |                        | 143                | 12/12/2023       | 13:30            | Water    | ✓     |
| TO                           |          |                        | 144                | 12/12/2023       | 14:00            | Water    | ✓     |
| INVOICE                      |          |                        | 145                | 12/12/2023       | 14:30            | Water    | ✓     |
| SEND                         |          |                        | 146                | 12/12/2023       | 15:00            | Water    | ✓     |
| INVOICE                      |          |                        | 147                | 12/12/2023       | 15:30            | Water    | ✓     |
| TO                           |          |                        | 148                | 12/12/2023       | 16:00            | Water    | ✓     |
| INVOICE                      |          |                        | 149                | 12/12/2023       | 16:30            | Water    | ✓     |
| SEND                         |          |                        | 150                | 12/12/2023       | 17:00            | Water    | ✓     |
| INVOICE                      |          |                        | 151                | 12/12/2023       | 17:30            | Water    | ✓     |
| TO                           |          |                        | 152                | 12/12/2023       | 18:00            | Water    | ✓     |
| INVOICE                      |          |                        | 153                | 12/12/2023       | 18:30            | Water    | ✓     |
| SEND                         |          |                        | 154                | 12/12/2023       | 19:00            | Water    | ✓     |
| INVOICE                      |          |                        | 155                | 12/12/2023       | 19:30            | Water    | ✓     |
| TO                           |          |                        | 156                | 12/12/2023       | 20:00            | Water    | ✓     |
| INVOICE                      |          |                        | 157                | 12/12/2023       | 20:30            | Water    | ✓     |
| SEND                         |          |                        | 158                | 12/12/2023       | 21:00            | Water    | ✓     |
| INVOICE                      |          |                        | 159                | 12/12/2023       | 21:30            | Water    | ✓     |
| TO                           |          |                        | 160                | 12/12/2023       | 22:00            | Water    | ✓     |
| INVOICE                      |          |                        | 161                | 12/12/2023       | 22:30            | Water    | ✓     |
| SEND                         |          |                        | 162                | 12/12/2023       | 23:00            | Water    | ✓     |
| INVOICE                      |          |                        | 163                | 12/12/2023       | 23:30            | Water    | ✓     |
| TO                           |          |                        | 164                | 12/12/2023       | 00:00            | Water    | ✓     |
| INVOICE                      |          |                        | 165                | 12/12/2023       | 00:30            | Water    | ✓     |
| SEND                         |          |                        | 166                | 12/12/2023       | 01:00            | Water    | ✓     |
| INVOICE                      |          |                        | 167                | 12/12/2023       | 01:30            | Water    | ✓     |
| TO                           |          |                        | 168                | 12/12/2023       | 02:00            | Water    | ✓     |
| INVOICE                      |          |                        | 169                | 12/12/2023       | 02:30            | Water    | ✓     |
| SEND                         |          |                        | 170                | 12/12/2023       | 03:00            | Water    | ✓     |
| INVOICE                      |          |                        | 171                | 12/12/2023       | 03:30            | Water    | ✓     |
| TO                           |          |                        | 172                | 12/12/2023       | 04:00            | Water    | ✓     |
| INVOICE                      |          |                        | 173                | 12/12/2023       | 04:30            | Water    | ✓     |
| SEND                         |          |                        | 174                | 12/12/2023       | 05:00            | Water    | ✓     |
| INVOICE                      |          |                        | 175                | 12/12/2023       | 05:30            | Water    | ✓     |
| TO                           |          |                        | 176                | 12/12/2023       | 06:00            | Water    | ✓     |
| INVOICE                      |          |                        | 177                | 12/12/2023       | 06:30            | Water    | ✓     |
| SEND                         |          |                        | 178                | 12/12/2023       | 07:00            | Water    | ✓     |
| INVOICE                      |          |                        | 179                | 12/12/2023       | 07:30            | Water    | ✓     |
| TO                           |          |                        | 180                | 12/12/2023       | 08:00            | Water    | ✓     |
| INVOICE                      |          |                        | 181                | 12/12/2023       | 08:30            | Water    | ✓     |
| SEND                         |          |                        | 182                | 12/12/2023       | 09:00            | Water    | ✓     |
| INVOICE                      |          |                        | 183                | 12/12/2023       | 09:30            | Water    | ✓     |
| TO                           |          |                        | 184                | 12/12/2023       | 10:00            | Water    | ✓     |
| INVOICE                      |          |                        | 185                | 12/12/2023       | 10:30            | Water    | ✓     |
| SEND                         |          |                        | 186                | 12/12/2023       | 11:00            | Water    | ✓     |
| INVOICE                      |          |                        | 187                | 12/12/2023       | 11:30            | Water    | ✓     |
| TO                           |          |                        | 188                | 12/12/2023       | 12:00            | Water    | ✓     |
| INVOICE                      |          |                        | 189                | 12/12/2023       | 12:30            | Water    | ✓     |
| SEND                         |          |                        | 190                | 12/12/2023       | 13:00</          |          |       |