

3R - 84

REPORTS

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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

February 26, 2001

Conoco, Inc., San Juan/Lobo Business Unit
Attn.: Mr. Gary Ledbetter, Field SHEAR Specialist
3315 Bloomfield Hwy.
Farmington, NM 87401

RE: 2000 Annual Groundwater Monitoring Report
Conoco Location: Farmington B Com #1E
Unit 0, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM

Project: 4-1374

Dear Mr. Ledbetter:

The following report summarizes the ground water remediation and monitoring activities conducted by On Site Technologies Limited Partnership and/or others on behalf of Conoco, Inc., at the referenced oil and gas location. This report covers the calendar year of 2000, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico* (hereafter known as the monitoring plan), submitted to the New Mexico Oil Conservation Division on October 15, 1997.

SUMMARY OF 2000 ACTIVITIES:

Ground water sampling events were conducted during March, June, and September of 2000. By direction of New Mexico Oil Conservation Division (NMOCD), MW#4 and Mw#5 were the only well sampled for the referenced events and continue to show water quality at or below New Mexico Water Quality Control Commission standards (NMWQCC). Free product is still present in monitoring well 1 (MW #1) and MW#1 has not been sampled during the past year.

In April of 2000, a passive skimmer was reinstalled in MW#1 and the seven (7) Oxygen Release Compound (ORC) socks from Regenesis™ were removed, the sock had become saturated with free product and rendered ineffective. Ground water elevations and flow are consistent with those previously reported.

NMOCD has accepted the recommendations from the 1999 Annual Ground Water report. Sampling of the site has been discontinued until a more aggressive action can be taken to recover the free product in MW#1.

SAMPLING:

In accordance with the monitoring plan, water levels were measured on the monitoring well prior to purging and sampling. Samples were collected, preserved and transported in accordance with Environmental Protection Agency (EPA) prescribed procedures, and proper chain-of-custody protocol followed. The laboratory analyses ordered, followed the monitoring plan.

Table 1, summarizes the monitoring well data and water levels measured during previous and current sampling event. Table 2, summarizes the laboratory results for BTEX compounds from all water sampling completed at the referenced site.

Copies of all laboratory reports for the calendar year 2000, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

PO Box 2606
Farmington, NM 87499

505-325-5667

FAX: 505-327-1496

SUMMARY AND CONCLUSIONS:

The following conclusions are based on the 2000 ground water monitoring results and trends associated with Farmington B Com 1E well location:

1. Free product remains a problem in MW #1.
2. ORC socks appear to be ineffective, due to saturation by free product.
3. All other monitoring wells (MW#2 through MW#6) exhibit water quality levels below NMWQCC standards.
4. The ground water direction seems to be influenced by an unlined irrigation ditch south of the location, which is a seasonally variable recharge point.

RECOMMENDATIONS

1. Develop and implement a more aggressive method recovering the free product from MW #1.
2. When the free product recovery has been completed, begin ground water monitoring of MW#1 until four (4) quarters of water quality at or below NMWQCC standards.
3. Discontinued the ground water monitoring of MW#2 through MW#6 until MW#1 water quality is below NMWQCC standards.
4. Final sampling of all monitoring wells at the location to be done prior to closure.
5. When ground water monitoring has been complete, Final Pit Closure form to be submitted to NMOCD for approval.
6. Plug and abandoned all monitoring wells at this location in accordance with current regulations.

LIMITATIONS AND CLOSURE:

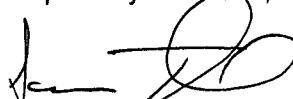
This 2000 groundwater report documents the results of ground water monitoring for the referenced Conoco well location. This report following the Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico, dated October 15, 1997, and approved by NMOCD on February 16, 1998.

The scope of On Site Technologies' services consisted of project management, periodic water sampling and measurement of water levels, laboratory testing for ground water quality, and preparation of this initial report. All work has been performed in accordance with generally accepted professional practices in petroleum and environmental engineering, and hydrogeology.

This document has been prepared by On Site Technologies for the exclusive use of Conoco Inc. as it pertains to the referenced well location operated by Conoco.

If there are any questions regarding this status report, please contact either Myke Lane or Larry Trujillo at On Site Technologies, (505) 325-5667. Thank you for your consideration.

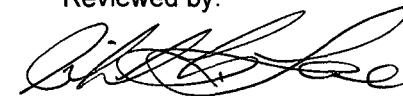
Respectfully submitted,



Lawrence "Larry" Trujillo, CHMM
Project Manager

ON SITE TECHNOLOGIES LIMITED PARTNERSHIP

Reviewed by:



Michael K. Lane PE
Senior Engineer

Attachments: Table 1: Monitoring Well Details and Ground Water Levels Summary
Table 2: Ground Water BTEX Analytical Summary
Figure 1: Site Sketch
Figure 2, 3, 4, 5 Ground Water Potentiometric Map
Laboratory Result, Chain of Custody, QA/QC

Acknowledgment:
CONOCO, Inc.

Dave Sullivans Shear Specialist
(Name/Title)
2/27/01
(Date)

LET/let: 41374-99.doc

REFERENCE:

On Site Technologies, Ltd., April 16, 1997, Letter to Mr. W. L. Brignon, Senior Council Conoco, Inc. Midland Division, regarding: Remediation Summary, Conoco Location, Farmington B Com #1E, Unit 0, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM.

On Site Technologies, Ltd., February 1, 1998, Report to Ms. Shirley Ebert, Field SHEAR Specialist, Conoco, Inc. Mid-Continent Region, regarding: Annual Ground Water Report for 1997, Conoco Location, Farmington B Com #1E, Unit 0, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM

On Site Technologies, Ltd., February 8, 1999, Report to Ms. Shirley Ebert, Field SHEAR Specialist, Conoco, Inc. Mid-Continent Region, regarding: Annual Ground Water Report for 1998, Conoco Location, Farmington B Com #1E, Unit 0, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM

On Site Technologies, Ltd., January 7, 2000 Report to Ms. Shirley Ebert, Field SHEAR Specialist, Conoco, Inc. Mid-Continent Region, regarding: Annual Ground Water Report for 2000, Conoco Location, Farmington B Com #1E, Unit 0, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM

Table 1

Ground Water Level Summary
 Farmington B Com 1E
 Unit O, Sec. 15, T29N, R13W

Well Number	Total Depth of Well (ft)	Well Type	Screen Interval (ft) (BGS)	Sample Date	Depth to Groundwater (ft) (BTOC)*	Relative Groundwater Elevation (ft)	
MW#1	101.37	34.09	2" PVC	19.09 to 34.09	3/18/98 6/12/98 7/13/98 8/25/98 9/15/98 12/29/98 3/3/99 6/15/99 9/15/9 12/14/99 3/27/00 6/5/00 9/11/00 1/23/00	28.51 27.07* 25.75 24.92 25.06 28.89 28.38 27.46 27.95 28.10 27.58 26.54 24.54 Not Measured	78.86 74.30 75.62 76.45 76.32 72.48 72.99 73.91 73.42 73.27 73.79 74.83 76.83 72.76 75.73 77.08 77.54 77.39 74.75 73.00 74.96 75.30 73.46 73.91 75.85 78.00 Measured
MW#2	101.57	33.72	2" PVC	18.72 to 33.72	3/18/98 6/12/98 7/13/98 8/25/98 9/15/98 12/29/98 3/3/99 6/15/99 9/15/99 12/14/99 3/27/00 6/5/00 9/11/00 1/23/00	27.81 25.84 24.49 24.03 24.18 26.82 28.57 26.61 26.27 28.11 27.66 25.72 23.57 Not Measured	72.76 75.73 77.08 77.54 77.39 74.75 73.00 74.96 75.30 73.46 73.91 75.85 78.00 Measured

BGS - approximate measurements taken as Below Ground Surface

BTOC - Below Top of Casing

NM - Not Measured

Table 1
Ground Water Level Summary
Farmington B Com 1E
Unit O, Sec. 15, T29N, R13W

Well Number	Top of Casing Elevation (ft)	Total Depth of Well (ft)	Well Type	Screen Interval (ft) (BGS)	Sample Date	Depth to Groundwater (ft) (BTGOC)	Relative Groundwater Elevation (ft)
MW #3	102.1	32.44	2" PVC	17.44 to 32.44	3/19/98	28.84	73.26
					6/12/98	26.27	75.83
					7/13/98	25.09	77.01
					8/25/98	24.56	77.54
					9/15/98	24.85	77.25
					12/29/98	28.02	74.08
					3/3/99	29.89	72.21
					6/15/99	27.28	74.82
					9/15/99	27.22	74.88
					12/14/99	28.21	73.89
					3/27/00	27.89	74.21
					6/5/00	26.32	75.78
					9/11/00	24.03	78.07
					1/23/00	Not Measured	Measured
MW #4	101.4	32.72	2" PVC	17.72 to 32.72	8/25/98	24.99	76.41
					9/15/98	25.28	76.12
					12/29/98	29.01	72.39
					3/3/99	29.97	71.43
					6/15/99	27.89	73.51
					9/15/99	27.54	73.86
					12/14/99	28.46	72.94
					3/27/00	29.06	74.21
					6/5/00	26.92	74.48
					9/11/00	24.63	76.77
					1/23/00	Not Measured	Measured

BGS - approximate measurements taken as Below Ground Surface
 BTGOC - Below Top of Casing
 NM - Not Measured

Table 1

Ground Water Level Summary
 Farmington B Com 1E
 Unit O, Sec. 15, T29N, R13W

Well Number	Top of Casing Elevation (ft)	Total Depth of Well (ft)	Well Type	Screen Interval (ft) (BGS)	Sample Date	Depth to Groundwater (ft) (BTOC)	Relative Groundwater Elevation (ft)
MW #5	100.52	34.09	2" PVC	19.09 to 34.09	8/25/98	24.49	76.03
				9/15/98		24.83	75.96
				12/29/98		28.27	72.25
				3/3/99		29.71	70.81
				6/15/99		27.58	72.94
				9/15/99		27.17	73.35
				12/14/99		28.15	72.37
				3/27/00		28.96	71.56
				6/5/00		26.62	73.90
				9/11/00		24.29	76.23
				1/23/00	Not Measured		
MW #6	102.14	34.02	2" PVC	19.02 to 34.02	8/25/98	26.00	76.14
				9/15/98		26.19	75.95
				12/29/98		28.98	73.16
				3/3/99		30.71	71.43
				6/15/99		28.92	73.22
				9/15/99		28.36	73.78
				12/14/99		29.22	72.92
				3/27/00		33.37	68.77
				6/5/00		27.97	74.17
				9/11/00		25.72	76.42
				1/23/00	Not Measured		

BGS = approximate measurements taken as Below Ground Surface

BTOC = Below Top of Casing

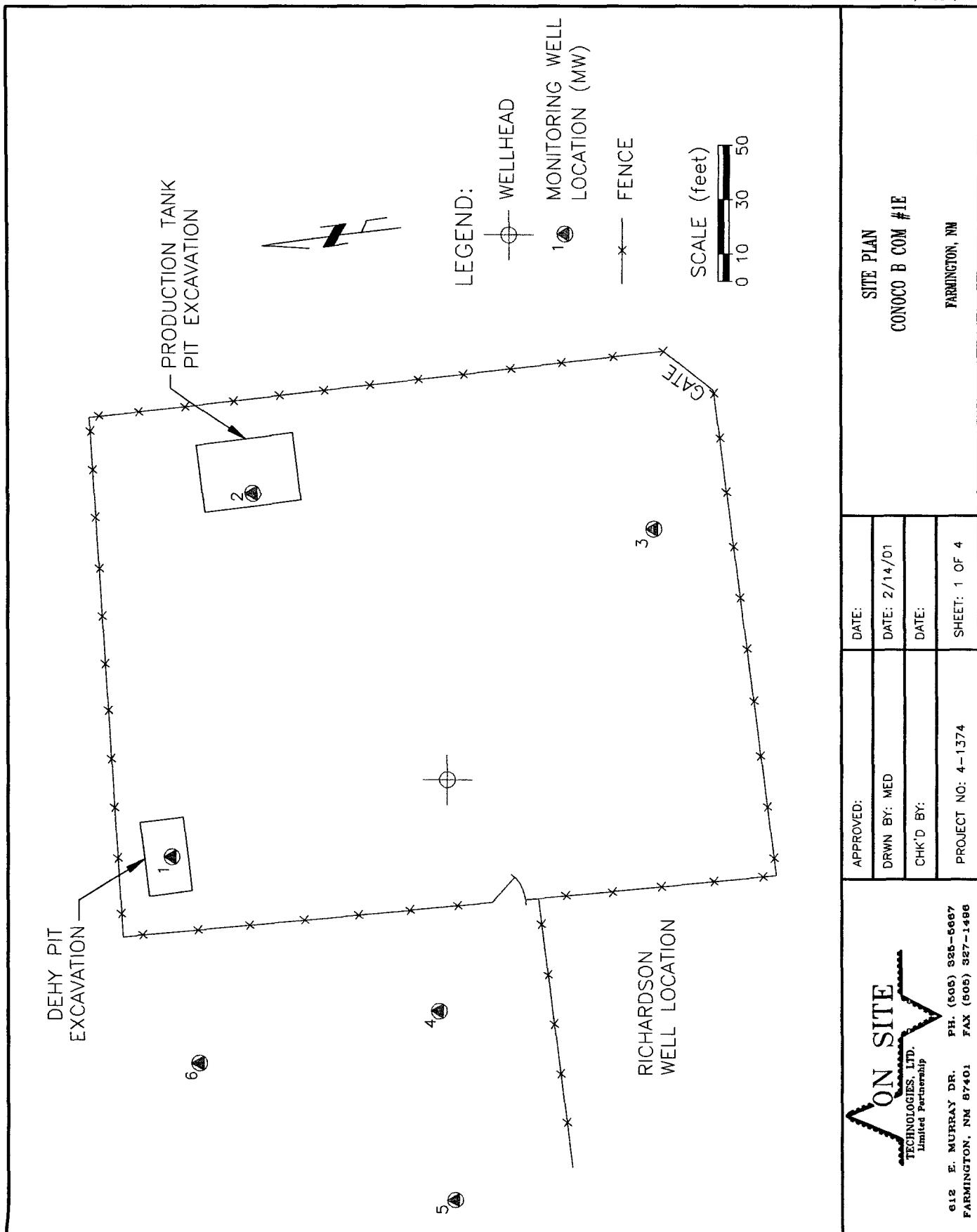
NM = Not Measured

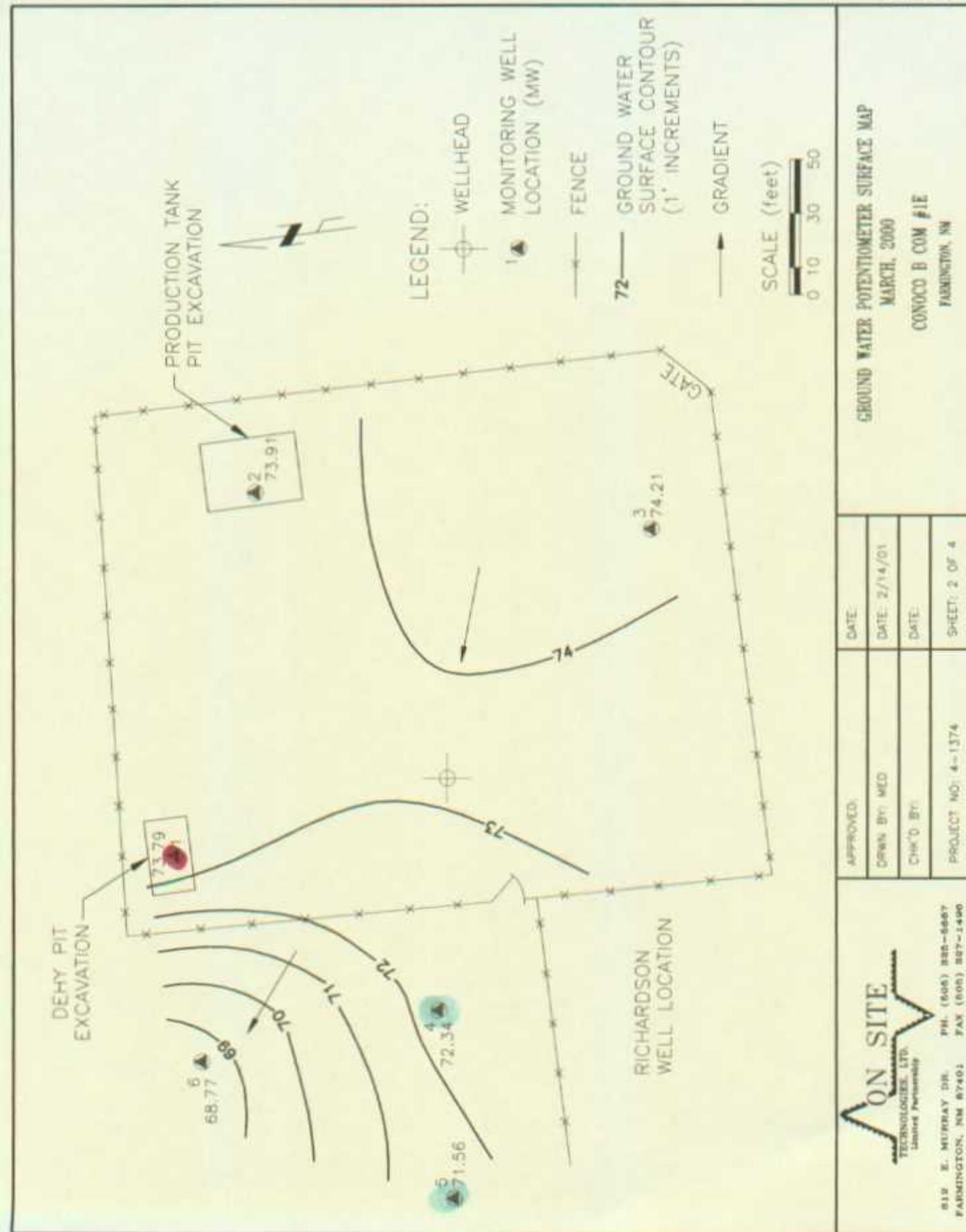
Table 2
BTEX Ground Water Analytical Summary
Farmington B Com 1E
Unit O, Sec. 15 T29N, R13W

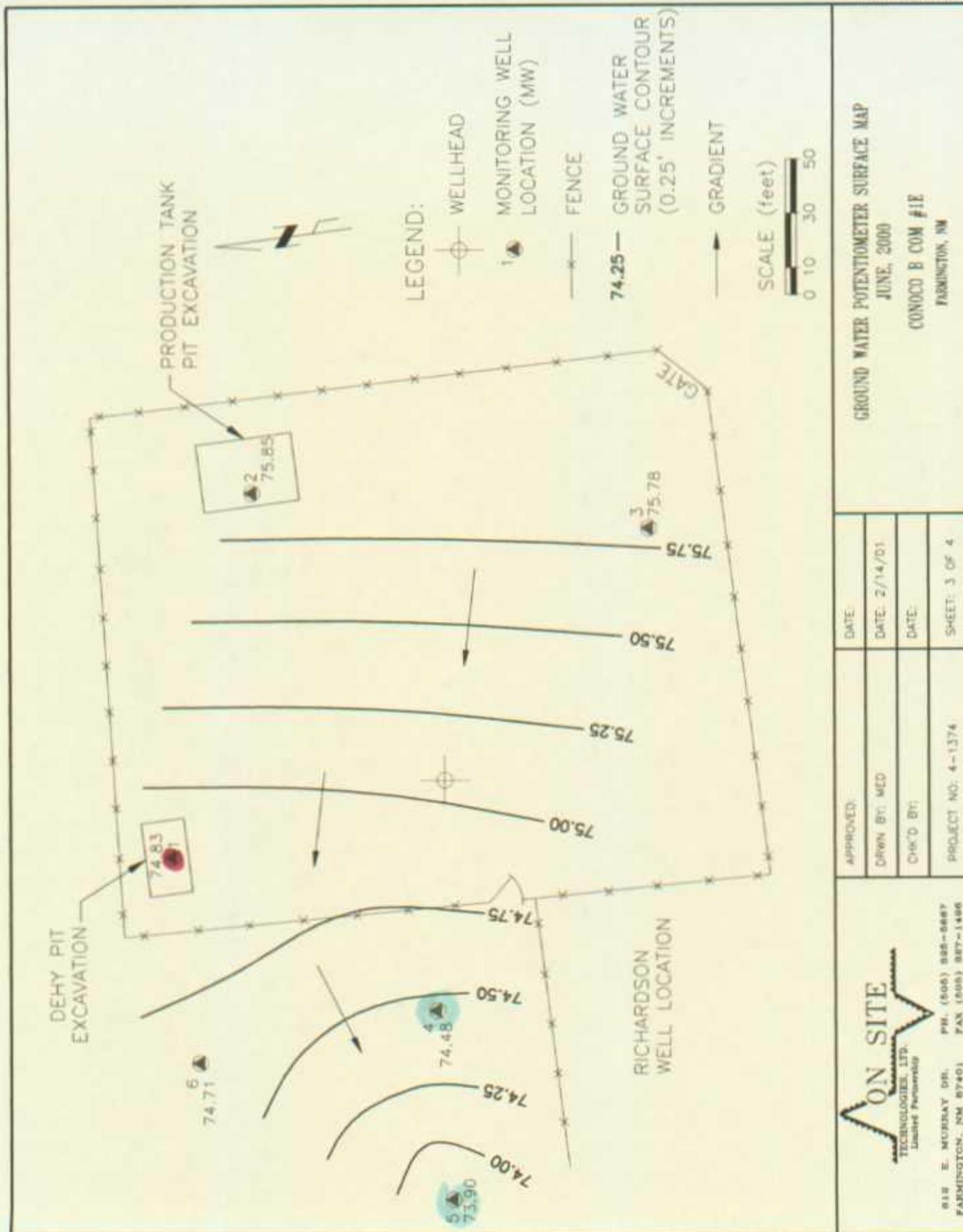
Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total-Xylene
2/19/98	9802020-01A	MW#1	On Site Lab.	210.0	34.0	370.0	2044.0
6/12/98	3" of free product	in the bailer					
9/15/98	Not Sampled	free product	in well				
12/29/98	9812053-04A	Samples	Taken	350.0	BDL	420	2800.0
No	Water		in	1999			
2/19/98	9802020-02A	MW#2	On Site Lab.	2.4	5.3	16.0	470.0
6/12/98	9806055-02A			0.8	2.7	32.0	171.0
9/15/98	9809035-01A			1.3	2.5	39.0	33.3
12/29/98	9812053-05A			BDL	0.6	2.1	35.0
3/3/99	9903012-05A			BDL	BDL	64	119.0
6/15/99	9906055-05A			BDL	BDL	BDL	BDL
9/15/99	9909054-05A			BDL	BDL	4.1	68.1
12/14/99	9912018-05A			BDL	BDL	1.8	36.4
2/19/98	9802020-03A	MW#3	On Site Lab.	0.9	1.2	1.6	5.3
06/12/98	9806055-01A			BDL	BDL	0.5	2.0
9/15/98	9809035-02A			BDL	BDL	BDL	BDL
12/29/98	9812053-06A			BDL	BDL	BDL	BDL
3/3/99	9903012-04A			BDL	BDL	BDL	BDL
6/15/99	9906055-04A			BDL	0.9	3.1	56.0
9/15/99	9909054-04A			BDL	0.6	BDL	BDL
12/14/99	9912018-04A			BDL	BDL	BDL	BDL
WQCC	Action	Levels		10.0	750.0	750.0	620.0

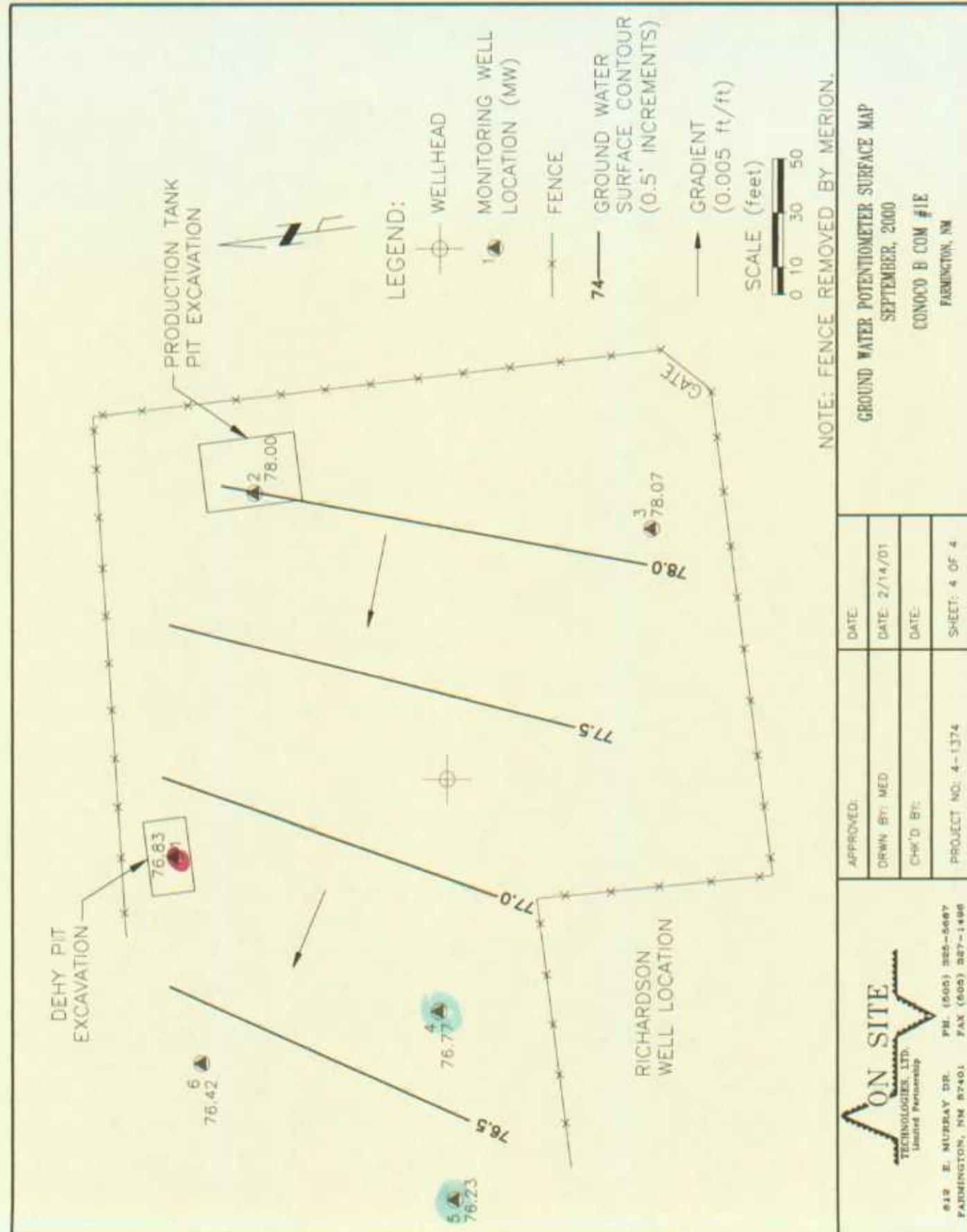
Table 2
 BTTEX Ground Water Analytical Summary
 Farmington B Com 1E
 Unit O, Sec. 15 T29N, R13W

Sample Date	Sample ID#	Monitor Well	Remarks	BTTEX per EPA 8020 (ppb)	
9/15/98	9809035-03A	MW#4	On Site Lab.	BDL	BDL
12/29/98	9812053-03A			BDL	0.6
3/3/99	9903012-03A			BDL	BDL
6/15/99	9906055-03A			BDL	BDL
9/15/99	9909054-03A			BDL	BDL
12/14/99	9912018-03A			BDL	BDL
3/27/00	0003041-01A			BDL	BDL
6/5/00	0006009-02A			BDL	BDL
9/11/00	0009020*01A			BDL	BDL
9/15/98	9809035-04A	MW#5	On Site Lab.	BDL	BDL
12/29/98	9812053-02A			BDL	BDL
3/3/99	9903012-02A			BDL	BDL
6/15/99	9906055-02A			BDL	BDL
9/15/99	9909054-02A			BDL	BDL
12/14/99	9912018-02A			BDL	BDL
3/27/00	0003041-02A			BDL	BDL
6/5/00	0006009-01A			BDL	BDL
9/11/00	0009020-02A			BDL	BDL
9/15/98	9809035-05A	MW#6	On Site Lab.	BDL	BDL
12/29/98	9812053-01A			BDL	BDL
3/3/99	9903012-01A			BDL	BDL
6/15/99	9906055-01A			BDL	BDL
9/15/99	9909054-01A			BDL	0.7
12/14/99	9912018-01A			BDL	1.1
WQCC	Action	Levels		10.0	750.0
					620.0









On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0006009
Project: 4-1374; Farmington B-Com 1E

Date: 13-Jun-00

QC SUMMARY REPORT
Method Blank

Sample ID: MB1	Batch ID: GC-1_000609	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/7/2000				Prep Date:			
Client ID:	Run ID: 0006009	Run ID: GC-1_000609A	Seq No:	Seq No: 28420							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0382	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0696	0.5									J
Sample ID: MB1	Batch ID: GC-1_000609	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/9/2000				Prep Date:			
Client ID:	Run ID: 0006009	Run ID: GC-1_000609A	Seq No:	Seq No: 28421							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0452	0.5									J
Ethylbenzene	.0537	0.5									J
Toluene	.0762	0.5									J

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: On Site Technologies Limited
Work Order: 0006009
Project: 4-1374; Farmington B-Com 11E

Date: 13-Jun-00

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 0006005-11AM\$		Batch ID: GC-1_000609		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/9/2000		Prep Date:		
Client ID:	Run ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	402	5	400	0.423	100.4%	73	126					
Ethylbenzene	399.2	5	400	1.056	99.5%	88	113					
m,p-Xylene	789.7	10	800	0	98.7%	83	112					
Methyl tert-Butyl Ether	795.7	10	400	406.2	97.4%	81	125					
o-Xylene	401.8	5	400	0	100.5%	93	110					
Toluene	404.1	5	400	1.459	100.7%	76	126					
Sample ID: 0006005-11AMSD		Batch ID: GC-1_000609		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/9/2000		Prep Date:		
Client ID:	Run ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	392.2	5	400	0.423	97.9%	73	126					
Ethylbenzene	387.2	5	400	1.056	96.5%	88	113					
m,p-Xylene	769	10	800	0	96.1%	83	112					
Methyl tert-Butyl Ether	795.7	10	400	406.2	97.4%	81	125					
o-Xylene	392	5	400	0	98.0%	93	110					
Toluene	393.7	5	400	1.459	98.1%	76	126					

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: On Site Technologies Limited
Work Order: 0006009
Project: 4-1374; Farmington B-Com 1E

Date: 13-Jun-00

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_000609	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/9/2000				Prep Date:					
Client ID:	Run ID: 0006009	Run ID: GC-1_000609A		SeqNo:	28418	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Analyte	Result	PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	41.36	0.5	40	0.0382		103.3%	89	112					
Ethylbenzene	41.94	0.5	40	0		104.9%	93	112					
m,p-Xylene	79.07	1	80	0		98.8%	88	108					
Methyl tert-Butyl Ether	40.94	1	40	0		102.4%	87	115					
o-Xylene	41.7	0.5	40	0		104.3%	93	112					
Toluene	41.72	0.5	40	0.0696		104.1%	92	111					
Sample ID: LCS WATER	Batch ID: GC-1_000609	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/9/2000				Prep Date:					
Client ID:	Run ID: 0006009	Run ID: GC-1_000609A		SeqNo:	28419	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Analyte	Result	PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	41.01	0.5	40	0.0452		102.4%	89	112					
Ethylbenzene	41.12	0.5	40	0.0537		102.7%	93	112					
m,p-Xylene	81.2	1	80	0		101.5%	88	108					
Methyl tert-Butyl Ether	36.59	1	40	0		91.5%	87	115					
o-Xylene	41.27	0.5	40	0		103.2%	93	112					
Toluene	41.13	0.5	40	0.0762		102.6%	92	111					

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

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0006009
Project: 4-1374; Farmington B-Com 1E

Date: 13-Jun-00

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Client ID:	Sample ID: CCV1 BTEX_0004	Batch ID: GC-1_000609	Test Code: SW8021B	Units: µg/L		Analysis Date: 6/9/2000	SeqNo: 28414	Prep Date:				
Analyte		Run ID: GC-1_000609A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		20.38	0.5	20	0	101.9%	85	115				
Ethylbenzene		20.94	0.5	20	0	104.7%	85	115				
m,p-Xylene		39.2	1	40	0	98.0%	85	115				
Methyl tert-Butyl Ether		19.75	1	20	0	98.7%	85	115				
o-Xylene		20.78	0.5	20	0	103.9%	85	115				
Toluene		20.49	0.5	20	0	102.5%	85	115				
1,4-Difluorobenzene		89.52	0	100	0	89.5%	80	105				
4-Bromochlorobenzene		88.03	0	100	0	88.0%	78	108				
Fluorobenzene		89.11	0	100	0	89.1%	78	108				
Client ID:	Sample ID: CCV1 BTEX_0004	Batch ID: GC-1_000609	Test Code: SW8021B	Units: µg/L		Analysis Date: 6/9/2000	SeqNo: 28415	Prep Date:				
Analyte		Run ID: GC-1_000609A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		40.49	0.5	40	0	101.2%	85	115				
Ethylbenzene		40.7	0.5	40	0	101.7%	85	115				
m,p-Xylene		80.29	1	80	0	100.4%	85	115				
Methyl tert-Butyl Ether		37.36	1	40	0	93.4%	85	115				
o-Xylene		40.97	0.5	40	0	102.4%	85	115				
Toluene		40.72	0.5	40	0	101.8%	85	115				
1,4-Difluorobenzene		90.94	0	100	0	90.9%	80	105				
4-Bromochlorobenzene		88.49	0	100	0	88.5%	78	108				
Fluorobenzene		90.86	0	100	0	90.9%	78	108				

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

1 of 2

CLIENT: On Site Technologies Limited
Work Order: 0006009
Project: 4-1374; Farmington B-Com 1E

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV2 BTEX_0004		Batch ID: GC-1_000609		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/9/2000		Prep Date:						
Client ID:			0006009	Run ID:	GC-1_000609A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		19.48	0.5	20	0	97.4%	85	115								
Ethylbenzene		19.41	0.5	20	0	97.1%	85	115								
m,p-Xylene		38.05	1	40	0	95.1%	85	115								
Methyl tert-Butyl Ether		19.34	1	20	0	96.7%	85	115								
o-Xylene		19.73	0.5	20	0	98.6%	85	115								
Toluene		19.5	0.5	20	0	97.5%	85	115								
1,4-Difluorobenzene		90.97	0	100	0	91.0%	80	105								
4-Bromochlorobenzene		88.56	0	100	0	88.6%	78	108								
Fluorobenzene		91.78	0	100	0	91.8%	78	108								
Sample ID: CCV3 BTEX_0004		Batch ID: GC-1_000609		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/9/2000		Prep Date:						
Client ID:			0006009	Run ID:	GC-1_000609A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		39.88	0.5	40	0	99.7%	85	115								
Ethylbenzene		39.16	0.5	40	0	97.9%	85	115								
m,p-Xylene		77.51	1	80	0	96.9%	85	115								
Methyl tert-Butyl Ether		40.58	1	40	0	101.5%	85	115								
o-Xylene		39.83	0.5	40	0	99.6%	85	115								
Toluene		39.73	0.5	40	0	99.3%	85	115								
1,4-Difluorobenzene		90.96	0	100	0	91.0%	80	105								
4-Bromochlorobenzene		86.32	0	100	0	86.3%	78	108								
Fluorobenzene		91.76	0	100	0	91.8%	78	108								

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: 13-Jun-00

CLIENT: On Site Technologies Limited
Work Order: 0006009
Project: 4-1374; Farmington B-Com 1E
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ						
0006002-07A	102	87.6	93						
0006004-04A	91.4	90.1	91.7						
0006005-03A	91.1	87.9	91.6						
0006005-04A	68.6 *	90.4	34 *						
0006005-05A	91.8	86.7	92						
0006005-06A	92.4	86.6	92.6						
0006005-07A	91.2	86.8	92.2						
0006005-08A	91.8	86.8	92.6						
0006005-09A	90.2	86.6	91.2						
0006005-10A	90.4	85.2	91.2						
0006005-11A	91.4	87.2	97.6						
0006005-11AMS	90	88.2	96						
0006005-11AMSD	90.4	88.6	96.4						
0006005-12A	90.6	85.6	91.8						
0006005-13A	79.4 *	90.9	33.3 *						
0006005-14A	90	90.1	34.1 *						
0006008-01A	89.4	85.7	90.7						
0006009-01A	92.5	86.4	92.8						
0006009-02A	91.2	86.5	92.5						
0006010-01A	90.2	86	91.9						
0006011-01A	89.5	85.8	91.2						
CCV1 BTEX_00040	90.9	88.5	90.8						
CCV2 BTEX_00040	91	88.6	91.8						
CCV3 BTEX_00040	91	86.3	91.8						
LCS WATER	91.1	89.6	91.1						
MBI	90.8	88.4	91.1						

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108

* Surrogate recovery outside acceptance limits



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

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

June 13, 2000

Larry Trujillo
On Site Technologies Limited
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87499
TEL: (505) 325-5667
FAX (505) 327-1496

RE: 4-1374; Farmington B-Com 1E

Order No.: 0006009

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 6/5/2000 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: 13-Jun-00

CLIENT: On Site Technologies Limited
Project: 4-1374; Farmington B-Com 1E
Lab Order: 0006009

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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ANALYTICAL REPORT

Date: 13-Jun-00

Client:	On Site Technologies Limited	Client Sample Info:	Farmington B-Com 1E
Work Order:	0006009	Client Sample ID:	MW #5
Lab ID:	0006009-01A	Matrix:	AQUEOUS
Project:	4-1374; Farmington B-Com 1E	Collection Date:	6/5/2000 9:10:00 AM
		COC Record:	10727

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	ND	0.5		µg/L	1	6/9/2000
Toluene	ND	0.5		µg/L	1	6/9/2000
Ethylbenzene	ND	0.5		µg/L	1	6/9/2000
m,p-Xylene	ND	1		µg/L	1	6/9/2000
o-Xylene	ND	0.5		µg/L	1	6/9/2000

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

1 of 2

P.O. BOX 2606 • FARMINGTON, NM 87499

- 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: 13-Jun-00

Client:	On Site Technologies Limited	Client Sample Info:	Farmington B-Com 1E
Work Order:	0006009	Client Sample ID:	MW #4
Lab ID:	0006009-02A	Matrix:	AQUEOUS
Project:	4-1374; Farmington B-Com 1E	Collection Date:	6/5/2000 9:35:00 AM
		COC Record:	10727

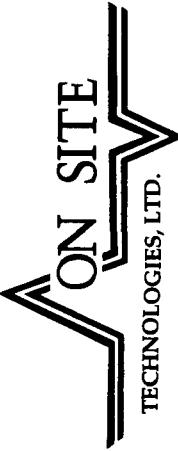
Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	ND	0.5		µg/L	1	6/9/2000
Toluene	ND	0.5		µg/L	1	6/9/2000
Ethylbenzene	ND	0.5		µg/L	1	6/9/2000
m,p-Xylene	ND	1		µg/L	1	6/9/2000
o-Xylene	ND	0.5		µg/L	1	6/9/2000

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

2 of 2

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

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

Date: 6/27/03
Page: 1 of 1

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

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

September 25, 2000

Larry Trujillo
Conoco, Inc.
3315 Bloomfield Hwy
Farmington, NM 87401
TEL: (505) 327-9557
FAX (505) 324-5825

RE: Farmington B Com 1E; 4-1374

Order No.: 0009020

Dear Larry Trujillo,

On Site Technologies, LTD. received 3 samples on 9/11/2000 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: 25-Sep-00

CLIENT: Conoco, Inc.
Project: Farmington B Com 1E; 4-1374
Lab Order: 0009020

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).

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- 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: 25-Sep-00

Client:	Conoco, Inc.	Client Sample Info:	Farmington B Com 1E
Work Order:	0009020	Client Sample ID:	MW 4
Lab ID:	0009020-01A	Matrix:	AQUEOUS
Project:	Farmington B Com 1E; 4-1374	Collection Date:	9/11/2000 12:30:00 PM
		COC Record:	10918

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	9/19/2000
Toluene	ND	0.5		µg/L	1	9/19/2000
Ethylbenzene	ND	0.5		µg/L	1	9/19/2000
m,p-Xylene	ND	1		µg/L	1	9/19/2000
o-Xylene	ND	0.5		µg/L	1	9/19/2000

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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1 of 3

- 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: 25-Sep-00

Client:	Conoco, Inc.	Client Sample Info:	Farmington B Com 1E
Work Order:	0009020	Client Sample ID:	MW 5
Lab ID:	0009020-02A	Matrix:	AQUEOUS
Project:	Farmington B Com 1E; 4-1374	COC Record:	10918

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DM	
Benzene	ND	0.5	μg/L	1	9/19/2000	
Toluene	ND	0.5	μg/L	1	9/19/2000	
Ethylbenzene	ND	0.5	μg/L	1	9/19/2000	
m,p-Xylene	ND	1	μg/L	1	9/19/2000	
o-Xylene	ND	0.5	μg/L	1	9/19/2000	

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

2 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

- 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: 25-Sep-00

Client:	Conoco, Inc.	Client Sample Info:	Farmington B Com 1E
Work Order:	0009020	Client Sample ID:	MW 1
Lab ID:	0009020-03A	Matrix:	AQUEOUS
Project:	Farmington B Com 1E; 4-1374	Collection Date:	9/11/2000 12:50:00 PM
		COC Record:	10918

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	470	5		µg/L	10	9/19/2000
Toluene	ND	5		µg/L	10	9/19/2000
Ethylbenzene	460	5		µg/L	10	9/19/2000
m,p-Xylene	3800	10		µg/L	10	9/19/2000
o-Xylene	9.3	5		µg/L	10	9/19/2000

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

3 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 25-Sep-00

CLIENT: Conoco, Inc.
Work Order: 0009020
Project: Farmington B Com 1E; 4-1374

QC SUMMARY REPORT
Method Blank

Sample ID: MB1	Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L	Analysis Date 9/19/2000			Prep Date:		
Client ID:	Run ID: GC-1_000919A	%REC	SeqNo: 31270	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val					
Benzene	ND	0.5							
Ethylbenzene	ND	0.5							
m,p-Xylene	.2295	1							J
Methyl tert-Butyl Ether	ND	1							
o-Xylene	ND	0.5							
Toluene	.1539	0.5							J

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: 25-Sep-00

QC SUMMARY REPORT

Sample Matrix Spike

Client ID:	Sample ID:	Batch ID:	Test Code:	Units:	Analysis Date:	Prep Date:						
Project:			GC-1_000919A	µg/L	9/19/2000							
Analyte		Run ID:	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0009020	210.6	2.5	200	23	93.8%	88	112				
Ethylbenzene		297.7	2.5	200	100	98.9%	86	113				
m,p-Xylene		965.9	5	400	590	94.0%	85	108				
Methyl tert-Butyl Ether		210.1	5	200	10	100.1%	86	117				
o-Xylene		249.5	2.5	200	62	93.7%	92	110				
Toluene		205.3	2.5	200	0	102.6%	88	116				
<hr/>												
Benzene	0009020	Sample ID: 0009018-01AMSD	Batch ID: GC-1_000919A	Test Code: SW8021B	Units: µg/L	Analysis Date: 9/19/2000	Prep Date:					
Ethylbenzene						SeqNo: 31272						
m,p-Xylene												
Methyl tert-Butyl Ether												
o-Xylene												
Toluene												

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: 25-Sep-00

CLIENT: Conoco, Inc.
Work Order: 0009020
Project: Farmington B Com 1E; 4-1374

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L	Analysis Date: 9/19/2000	Prep Date:						
Client ID:	Run ID: 0009020	GC-1_000919A		SqNo: 31269							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.11	0.5	40	0	100.3%	96	111				
Ethylbenzene	40.97	0.5	40	0	102.4%	96	111				
m,p-Xylene	80.3	1	80	0.2295	100.1%	92	105				
Methyl tert-Butyl Ether	42.17	1	40	0	105.4%	93	113				
o-Xylene	39.99	0.5	40	0	100.0%	97	110				
Toluene	39.95	0.5	40	0.1539	99.5%	97	109				

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: 25-Sep-00

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Client ID:	Sample ID:	Batch ID:	Test Code:	Units:	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
0009020	CCV1 BTEX_0007	GC-1_000919	SW8021B	µg/L							
		Run ID:	GC-1_000919A								
Analyte		Result	PQL	SPK value	SPK Ref Val						
Benzene	20.4	0.5	20	0	102.0%	85	115				
Ethylbenzene	20.8	0.5	20	0	104.0%	85	115				
m,p-Xylene	40.95	1	40	0	102.4%	85	115				
Methyl tert-Butyl Ether	21.31	1	20	0	106.5%	85	115				
<i>o</i> -Xylene	20.47	0.5	20	0	102.3%	85	115				
Toluene	20.26	0.5	20	0	101.3%	85	115				
1,4-Difluorobenzene	86.08	0	100	0	86.1%	79	101				
4-Bromochlorobenzene	91.44	0	100	0	91.4%	78	99				
Fluorobenzene	84.14	0	100	0	84.1%	76	103				
Client ID:	Sample ID:	Batch ID:	Test Code:	Units:	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
0009020	CCV2 BTEX_0007	GC-1_000919	SW8021B	µg/L							
		Run ID:	GC-1_000919A								
Analyte		Result	PQL	SPK value	SPK Ref Val						
Benzene	20.01	0.5	20	0	100.0%	85	115				
Ethylbenzene	20.4	0.5	20	0	102.0%	85	115				
m,p-Xylene	40.16	1	40	0	100.4%	85	115				
Methyl tert-Butyl Ether	21.15	1	20	0	105.8%	85	115				
<i>o</i> -Xylene	20.09	0.5	20	0	100.4%	85	115				
Toluene	19.88	0.5	20	0	99.4%	85	115				
1,4-Difluorobenzene	86.42	0	100	0	86.4%	79	101				
4-Bromochlorobenzene	87.47	0	100	0	87.5%	78	99				
Fluorobenzene	83.99	0	100	0	84.0%	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: 25-Sep-00

CLIENT: Conoco, Inc.

Work Order: 0009020

Project: Farmington B Com 1E; 4-1374

Test No: SW8021B

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ						
0009018-01A	81.2	86.8	80.5						
0009018-01AMS	80.4	89	79						
0009018-01AMSD	80.4	89.8	79.6						
0009019-02A	87.3	90.9	85.5						
0009020-01A	86.5	91.6	84.6						
0009020-02A	86.5	91.3	84.5						
0009020-03A	84.6	92.7	82.4						
0009024-02A	82.4	88.7	80.4						
CCV1 BTEX_00070	86.1	91.4	84.1						
CCV2 BTEX_00070	86.4	87.5	84						
LCS WATER	85.6	92.2	84.1						
MB1	86.1	91.3	84.8						

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

Date: _____

Page: _____ of _____

Purchase Order No.:		Project No.:	Title	
SEND TO INVOICE Name Company Address City, State, Zip		Company Mailing Address City, State, Zip Telephone No. Telefax No.	Name Company Mailing Address City, State, Zip	
PROJECT LOCATION:		ANALYSIS REQUESTED		
SAMPLER'S SIGNATURE:				
SAMPLE IDENTIFICATION Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Method of Shipment: _____		RESULTS TO CONTAINERS Rush 24-48 Hours 10 Working Days By Date		
REPORT Number of Containers		LAB ID		
Distribution: White - On Site Yellow - LAB Pink - Sampler Goldennrod - Client To Re-order Call 325-9400 or Fax 325-9764 althing options' FORM # 01				
Authorized by: _____ Date _____ (Client Signature Must Accompany Request)				



OFF: (505) 325-5667

LAB: (505) 325-1556

April 05, 2000

Larry Trujillo
On Site Technologies Limited
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87499
TEL: (505) 325-5667
FAX (505) 327-1496

RE: 4-1374; Farmington B Com 1E

Order No.: 0003041

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 3/27/2000 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



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 05-Apr-00

CLIENT: On Site Technologies Limited
Project: 4-1374; Farmington B Com 1E
Lab Order: 0003041

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 05-Apr-00

Client:	On Site Technologies Limited	Client Sample Info:	Farmington B Com 1E
Work Order:	0003041	Client Sample ID:	MW-4
Lab ID:	0003041-01A	Matrix:	AQUEOUS
Project:	4-1374; Farmington B Com 1E	Collection Date:	3/27/2000 10:05:00 AM
		COC Record:	106717

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
-----------	--------	-----	------	-------	----	---------------

AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DM	
Benzene	ND	0.5	μg/L	1	3/29/2000	
Toluene	ND	0.5	μg/L	1	3/29/2000	
Ethylbenzene	ND	0.5	μg/L	1	3/29/2000	
m,p-Xylene	ND	1	μg/L	1	3/29/2000	
o-Xylene	ND	0.5	μg/L	1	3/29/2000	

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

1 of 2

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT**Date: 05-Apr-00**

Client:	On Site Technologies Limited	Client Sample Info:	Farmington B Com 1E
Work Order:	0003041	Client Sample ID:	MW-5
Lab ID:	0003041-02A	Matrix:	AQUEOUS
Project:	4-1374; Farmington B Com 1E	Collection Date:	3/27/2000 9:35:00 AM
		COC Record:	106717

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DM	
Benzene	ND	0.5	µg/L	1	3/29/2000	
Toluene	ND	0.5	µg/L	1	3/29/2000	
Ethylbenzene	ND	0.5	µg/L	1	3/29/2000	
m,p-Xylene	ND	1	µg/L	1	3/29/2000	
o-Xylene	ND	0.5	µg/L	1	3/29/2000	

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

2 of 2

P.O. BOX 2606 • FARMINGTON, NM 87499*- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -*

On Site Technologies, LTD.

Date: 05-Apr-00

CLIENT: On Site Technologies Limited
Work Order: 0003041
Project: 4-1374; Farmington B Com 1E

QC SUMMARY REPORT
Method Blank

Sample ID: MB1	Batch ID: GC-1_000329	Test Code: SW8021B	Units: µg/L	Analysis Date: 3/29/2000	Prep Date:			
Client ID:	Run ID: GC-1_000329A	PQL	SPK value	SPK Ref Val	SeqNo: 26156			
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0678	0.5						J
Ethylbenzene	ND	0.5						
m,p-Xylene	.1187	1						J
Methyl tert-Butyl Ether	ND	1						
o-Xylene	.0803	0.5						
Toluene	.1724	0.5						J

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

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0003041
Project: 4-1374; Farmington B Com 1E

Date: 05-Apr-00

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID:	Batch ID:	Test ID:	Test Code:	Units:	Analysis Date:	Prep Date:					
Client ID:		Run ID:	GC-1_000329A	µg/L	3/29/2000						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	4817	50	4000	693.9	103.1%	73	126				
Ethylbenzene	5124	50	4000	1082	101.1%	88	113				
m,p-Xylene	16330	100	8000	9012	91.5%	83	112				
Methyl tert-Butyl Ether	4132	100	4000	0	103.3%	81	125				
o-Xylene	6425	50	4000	2512	97.8%	93	110				
Toluene	4353	50	4000	232.1	103.0%	76	126				
Sample ID:	Batch ID:	Test ID:	Test Code:	Units:	Analysis Date:	Prep Date:					
Client ID:		Run ID:	GC-1_000329A	µg/L	3/29/2000						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	4688	50	4000	693.9	99.5%	73	126	4817	2.7%	6	
Ethylbenzene	4990	50	4000	1082	97.7%	88	113	5124	2.7%	5	
m,p-Xylene	15910	100	8000	9012	86.3%	83	112	16330	2.6%	7	
Methyl tert-Butyl Ether	4074	100	4000	0	101.8%	81	125	4132	1.4%	9	
o-Xylene	6282	50	4000	2512	94.3%	93	110	6425	2.3%	6	
Toluene	4238	50	4000	232.1	100.2%	76	126	4353	2.7%	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
I - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0003041
Project: 4-1374; Farmington B Com 1E

Date: 05-Apr-00

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_000329	Test Code: SW8021B	Units: µg/L	Analysis Date: 3/29/2000	Prep Date: 26155
Client ID:	Run ID: GC-1_000329A	PQL	SPK value	SPK Ref Val	%REC
Analyte	Result				
Benzene	41.87	0.5	40	0.0678	104.5%
Ethylbenzene	41.56	0.5	40	0	103.9%
m,p-Xylene	77.75	1	80	0.1187	97.0%
Methyl tert-Butyl Ether	41.1	1	40	0	102.7%
o-Xylene	40.86	0.5	40	0.0803	101.9%
Toluene	41.28	0.5	40	0.1724	102.8%

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: On Site Technologies Limited
Work Order: 0003041
Project: 4-1374; Farmington B Com 1E

Date: 05-Apr-00

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Client ID:	Sample ID: CCV1 BTEX_0001	Batch ID: GC-1_000329	Test Code: SW8021B	Units: µg/L		Analysis Date 3/29/2000		Prep Date:					
Analyte		Run ID: 0003041	Run ID: GC-1_000329A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		21.44	0.5	20	0	0	107.2%	85	115				
Ethylbenzene		21.48	0.5	20	0	0	107.4%	85	115				
m,p-Xylene		40.01	1	40	0	0	100.0%	85	115				
Methyl tert-Butyl Ether		21.22	1	20	0	0	106.1%	85	115				
o-Xylene		21.1	0.5	20	0	0	105.5%	85	115				
Toluene		21.1	0.5	20	0	0	105.5%	85	115				
1,4-Difluorobenzene		90.77	0	100	0	0	90.8%	80	105				
4-Bromochlorobenzene		89.42	0	100	0	0	89.4%	78	108				
Fluorobenzene		88.2	0	100	0	0	88.2%	78	108				
Client ID:	Sample ID: CCV2 BTEX_0001	Batch ID: GC-1_000329	Test Code: SW8021B	Units: µg/L		Analysis Date 3/29/2000		Prep Date:					
Analyte		Run ID: 0003041	Run ID: GC-1_000329A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		20.48	0.5	20	0	0	102.4%	85	115				
Ethylbenzene		20.59	0.5	20	0	0	103.0%	85	115				
m,p-Xylene		37.84	1	40	0	0	94.6%	85	115				
Methyl tert-Butyl Ether		21.29	1	20	0	0	106.4%	85	115				
o-Xylene		20.34	0.5	20	0	0	101.7%	85	115				
Toluene		20.21	0.5	20	0	0	101.1%	85	115				
1,4-Difluorobenzene		90.62	0	100	0	0	90.6%	80	105				
4-Bromochlorobenzene		89.53	0	100	0	0	89.5%	78	108				
Fluorobenzene		88.36	0	100	0	0	88.4%	78	108				

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 2

CLIENT: On Site Technologies Limited
Work Order: 0003041
Project: 4-1374; Farmington B Com 1E

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_BTEX_0001	Batch ID: GC-1_000329	Test Code: SW8021B	Units: µg/L	Analysis Date 3/29/2000			Prep Date: 26154						
Client ID:		Run ID: GC-1_000329A		SeqNo:			%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val								
Benzene		39.4	0.5	40	0	98.5%	85	85	115				
Ethylbenzene		39.37	0.5	40	0	98.4%	85	85	115				
m,p-Xylene		71.48	1	80	0	89.3%	85	85	115				
Methyl tert-Butyl Ether		41.5	1	40	0	103.8%	85	85	115				
o-Xylene		39.02	0.5	40	0	97.5%	85	85	115				
Toluene		39.11	0.5	40	0	97.8%	85	85	115				
1,4-Difluorobenzene		90.09	0	100	0	90.1%	80	80	105				
4-Bromochlorobenzene		89.61	0	100	0	89.6%	78	78	108				
Fluorobenzene		87.56	0	100	0	87.6%	78	78	108				

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: 05-Apr-00

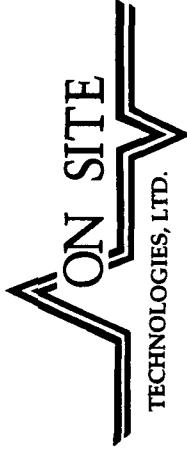
CLIENT: On Site Technologies Limited
Work Order: 0003041
Project: 4-1374; Farmington B Com 1E
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ						
0003033-01A	90.8	89.6	88.4						
0003033-01AMS	89.1	89.8	87.8						
0003033-01AMSD	89.8	89	87.3						
0003035-02A	90.6	89.8	89.2						
0003035-04A	91.1	89.8	89						
0003035-05A	91	90	89.6						
0003035-06A	90.4	90.6	89.5						
0003035-07A	91	89.8	89.6						
0003035-08A	90.6	89.8	89.3						
0003035-09A	90.9	89.5	89.7						
0003035-13A	90.6	90.6	89.6						
0003035-14A	90.2	89.7	89.7						
0003035-15A	94.5	85.4	88.9						
0003035-16A	90.4	89.2	88.8						
0003035-17A	90.9	90	89.2						
0003041-01A	90.8	90.1	89.4						
0003041-02A	90.7	90.2	89.5						
CCV1 BTEX_00010	90.8	89.4	88.2						
CCV2 BTEX_00010	90.6	89.5	88.4						
CCV3 BTEX_00010	90.1	89.6	87.6						
LCS WATER	89.3	89.8	87.9						
MB1	90.6	89	89.1						

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

Date: _____
Page: _____ of _____

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

Purchase Order No.:		Project No.:		RESULTS TO			Name:		Title:				
Name Company Address City, State, Zip		Dept.		Mailing Address			Company		Title				
PROJECT LOCATION:		Telephone No.		City, State, Zip			Telephone No.		Telefax No.				
ANALYSIS REQUESTED													
SAMPLE IDENTIFICATION		SAMPLE		NUMBER OF CONTAINERS		LAB ID							
		DATE	TIME	MATRIX	PRES.								
SEND OF INVOICE	AMOUNT	QUANTITY	DATE	TIME	MATRIX	PRES.	DATE	TIME	DATE	TIME	DATE		
SAMPLER'S SIGNATURE:													
PROJECT LOCATION:													
Method of Shipment:													
Authorized by:		(Client Signature Must Accompany Request)		Date _____									
Relinquished by:		Date/Time _____		Received by:								Date/Time	
Relinquished by:		Date/Time _____		Received by:								Date/Time	
Relinquished by:		Date/Time _____		Received by:								Date/Time	
Rush		24-48 Hours		10 Working Days		By Date							
Special Instructions / Remarks:													

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldendrod - Client

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