

3R - 85

REPORTS

DATE:

2/3/1999



February 3, 1999

Conoco, Inc., Mid-Continent Region
Attn.: Ms. Shirley Ebert, Field SHEAR Specialist
3314 Bloomfield Hwy.
Farmington, NM 87401

RECEIVED

RE: 1998 Annual Ground Water Report
Conoco Location: Farmington C Com 1
Unit L, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM

FEB 19 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Dear Ms. Ebert:

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 covered the prior calendar year of 1998, 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* (herein after referred to as the monitoring plan), submitted to the New Mexico Oil Conservation Division on October 15, 1997.

SUMMARY OF 1998 ACTIVITIES:

Ground water sampling events were conducted in March, June, September and December of 1998.

September 1998, NMOCD modified the sampling requirements as follows:

- Quarterly sampling requirements were waived for MW#2, MW#3 and MW#4.
- MW#1 will continue to be sampled until four (4) consecutive sampling events, at or below New Mexico Water Quality Control Commission (NMWQCC) standards.
- All monitoring wells are to be sampled during the final round for closure.
- A cross gradient piezometer is to be installed on the location, developed and sampled.
- If cross gradient piezometer laboratory analysis is clean no further sampling will be required.

On December 18, 1998, a cross gradient piezometer, as directed by NMOCD in September 1998, was installed approximately forty (40) feet cross gradient of MW-1. The cross gradient piezometer was developed and sampled in accordance with NMOCD's instruction.

Results of the ground water sampling, site assessment, and soil excavation efforts, were previously documented in the following correspondence:

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

On Site Technologies, Ltd., November 26, 1997: Letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: Remediation Summary, Conoco Location, Farmington C Com #1, Unit L, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM.

Boring logs, monitoring well diagrams, API water and RCRA metals analysis were previously documented in the following correspondence:

On Site Technologies, Ltd., February 1, 1997: Letter to Ms. Shirley Ebert, Field SHEAR Specialist Conoco, Inc. Midland Division, regarding: 1997 Annual Ground Water Report, Conoco Location, Farmington C Com #1, Unit L, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM.

SAMPLING:

In accordance with the monitoring plan, water levels were measured on all monitoring wells 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. Laboratory analyses ordered followed the Conoco Ground Water Plan.

Table 1 summarizes the monitoring well data and water levels measured during previous and current sampling events. 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 1998, along with all laboratory QA/QC documentation and chain-of-custody, are attached with this report.

SUMMARY AND CONCLUSIONS:

The following conclusions are based on the 1998 ground water monitoring results and trends associated with a former production pit at the Farmington C Com #1 well location:

1. MW-1 continues to have contamination from BTEX constituents, The BTEX contamination appears to fluctuate with the rise and fall of water levels at this location.
2. BTEX contamination of ground water has declined for monitoring well #2, #3 and #4, further sampling of these wells has been discontinued in accordance with NMOC directions.
3. Cross gradient piezometer was installed and initial sampling event was completed.

RECOMMENDATIONS:

1. Ground water monitoring to continue for MW#1, in accordance with Conoco's Comprehensive Ground Water Remediation and Long-Term Monitoring Plan.

LIMITATIONS AND CLOSURE:

This annual ground water report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 1998. This report follows the Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico, dated October 15, 1997

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 the annual report. All work has been performed in accordance with generally accepted professional practices in geotechnical, 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.

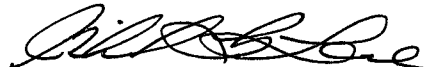
If there are any questions regarding this status report, please contact either Myke Lane or Larry Trujillo at On Site Technologies, (505) 325-5667. Thank you for your consideration.

Respectfully submitted,



Larry Trujillo, C.H.M.M./
Project Manager

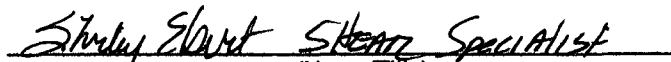
On Site Technologies, Limited Partnership



Michael K. Lane, P.E.
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, and 5: Ground Water Potentiometric Map
Laboratory results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.


(Name/Title)


(Date)

LET/let: 41374-98.doc

On Site Technologies, Ltd.:

Table 1

Groundwater Elevation Summary

Farmington C-Com 1

Unit L, 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#1	99.87	8.87	2" PVC	3.87 to 8.87	12/4/97	6.63	93.24
					3/12/98	6.51	93.36
					6/11/98	7.18	92.69
					9/17/98	7.99	91.88
					12/21/98	6.17	93.70
MW#2	100.25	7.70	2" PVC	2.7 to 7.7	12/5/97	6.48	93.77
					3/12/98	6.63	93.62
					6/11/98	7.07	93.18
					9/17/98	No Measurable Water	
					12/21/98	6.21	94.01
MW#3	101.11	8.90	2" PVC	3.9 to 8.9	12/5/97	6.58	94.53
					3/12/98	6.86	94.25
					6/11/98	7.03	94.08
					9/17/98	7.99	93.22
					12/21/98	6.37	94.74
MW#4	99.69	8.51	2" PVC	3.51 to 8.51	12/5/97	6.43	93.26
					3/12/98	6.59	93.10
					6/11/98	7.32	92.37
					9/17/98	8.11	91.58
					12/21/98	6.32	93.37
Piezometer	97.785	9.35	2" PVC	9.35 to 3.35	12/21/98	5.96	91.82

*
 Temporary Bench Mark (TMB): east corner of Pump Jack relative elevation of 100'
 BGS - approximate measurements taken as Below Ground Surface
 BTOC - Below Top of Casing
 NM - Not Measured

On Site Technologies

Table 2

BTEX Analytical Summary

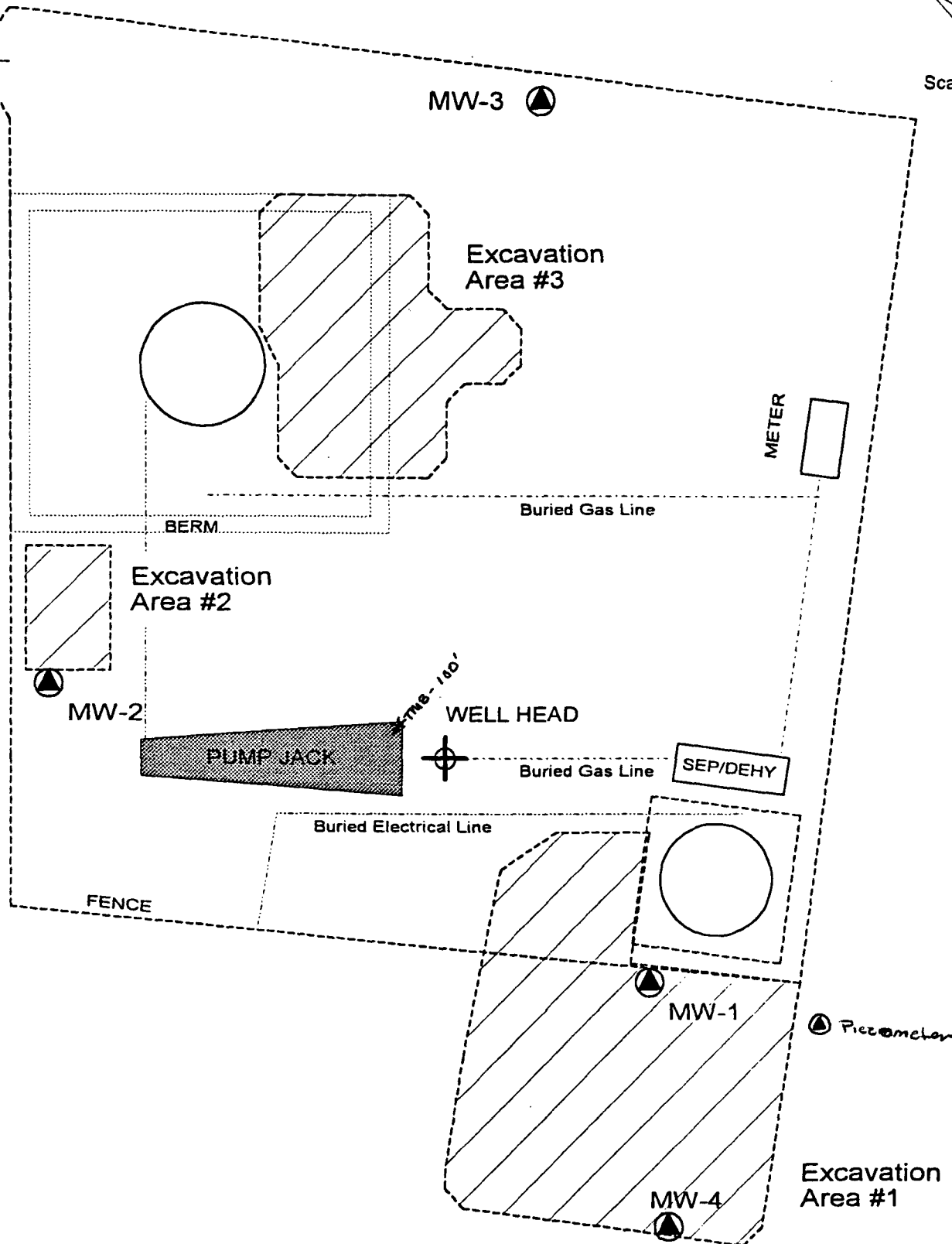
Farmington C-COM 1

Unit L, Sec. 15, T29N, R13W

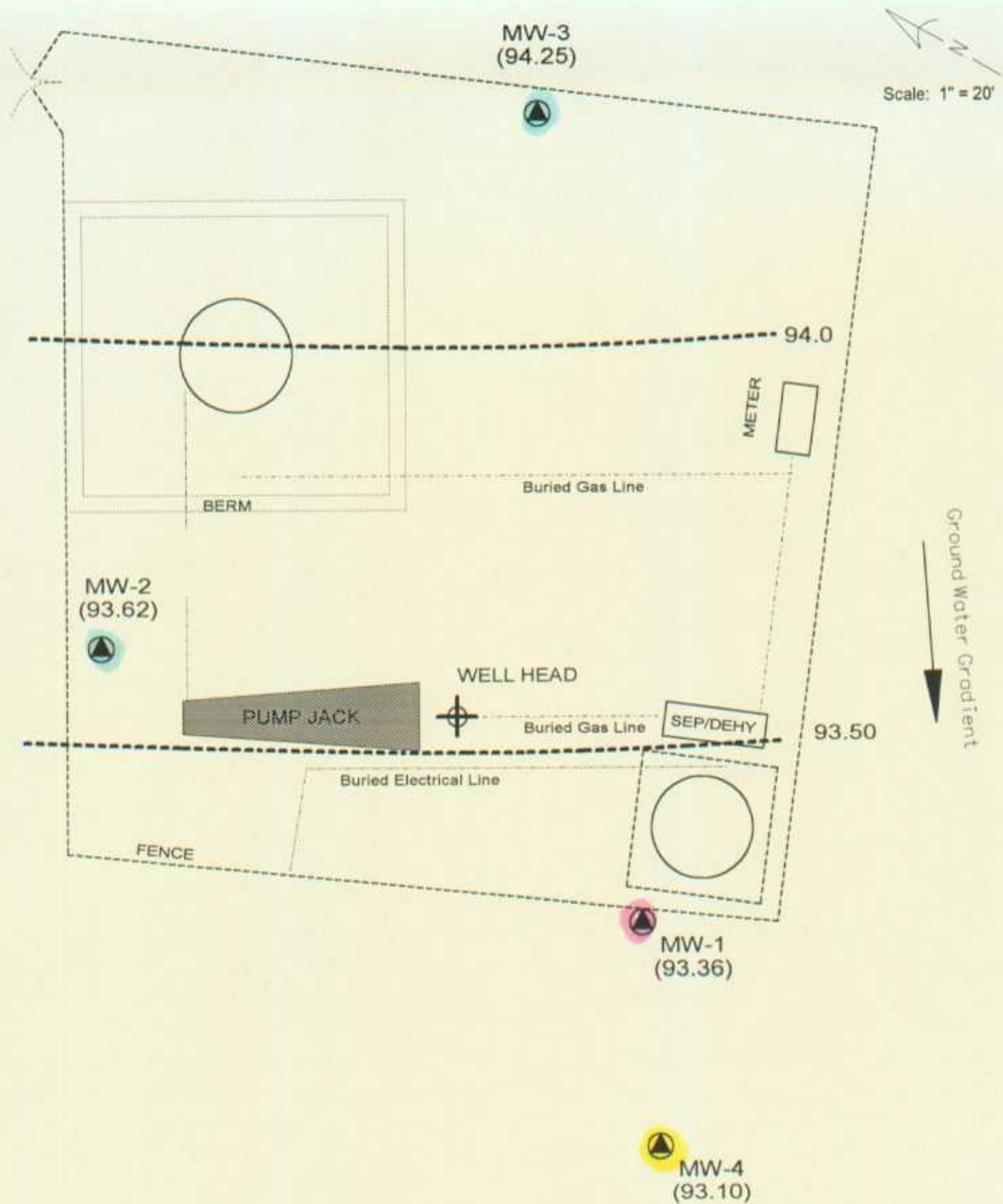
Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
12/4/97	17043	#1	On Site Lab.	109.1	1.0	91.0	77.7
3/12/98	9803039-01A			67.0	1.2	150	25.0
6/11/98	9806041-01A			51.0	0.7	25.0	1.4
9/18/98	9809051-02A			74.0	BDL	13	86
12/21/98	9812047-01A			76.0	BDL	78.0	120.0
12/4/97	17044	#2	On Site Lab.	0.4	BDL	BDL	BDL
3/12/98	9803039-02A			BDL	BDL	BDL	BDL
6/11/98	9806041-02A			BDL	BDL	BDL	BDL
			insufficient	water	to	sample	
12/5/97	17046	#3	On Site Lab.	BDL	0.3	BDL	0.2
3/12/98	9803039-03A			BDL	BDL	BDL	BDL
6/11/98	9806040-01A			BDL	BDL	BDL	BDL
9/18/98	9809051-03A			BDL	BDL	BDL	BDL
12/5/97	17047	#4	On Site Lab.	0.7	1.5	2.2	3.7
03/12/98	9803039-04A			BDL	BDL	1.8	8.1
6/11/98	9806041-03A			BDL	0.8	1.2	BDL
9/18/98	9809051-01A			BDL	BDL	BDL	BDL
12/21/98	9812047-02A	Piezometer	On Site Lab.	BDL	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

BDL Below Detection Levels

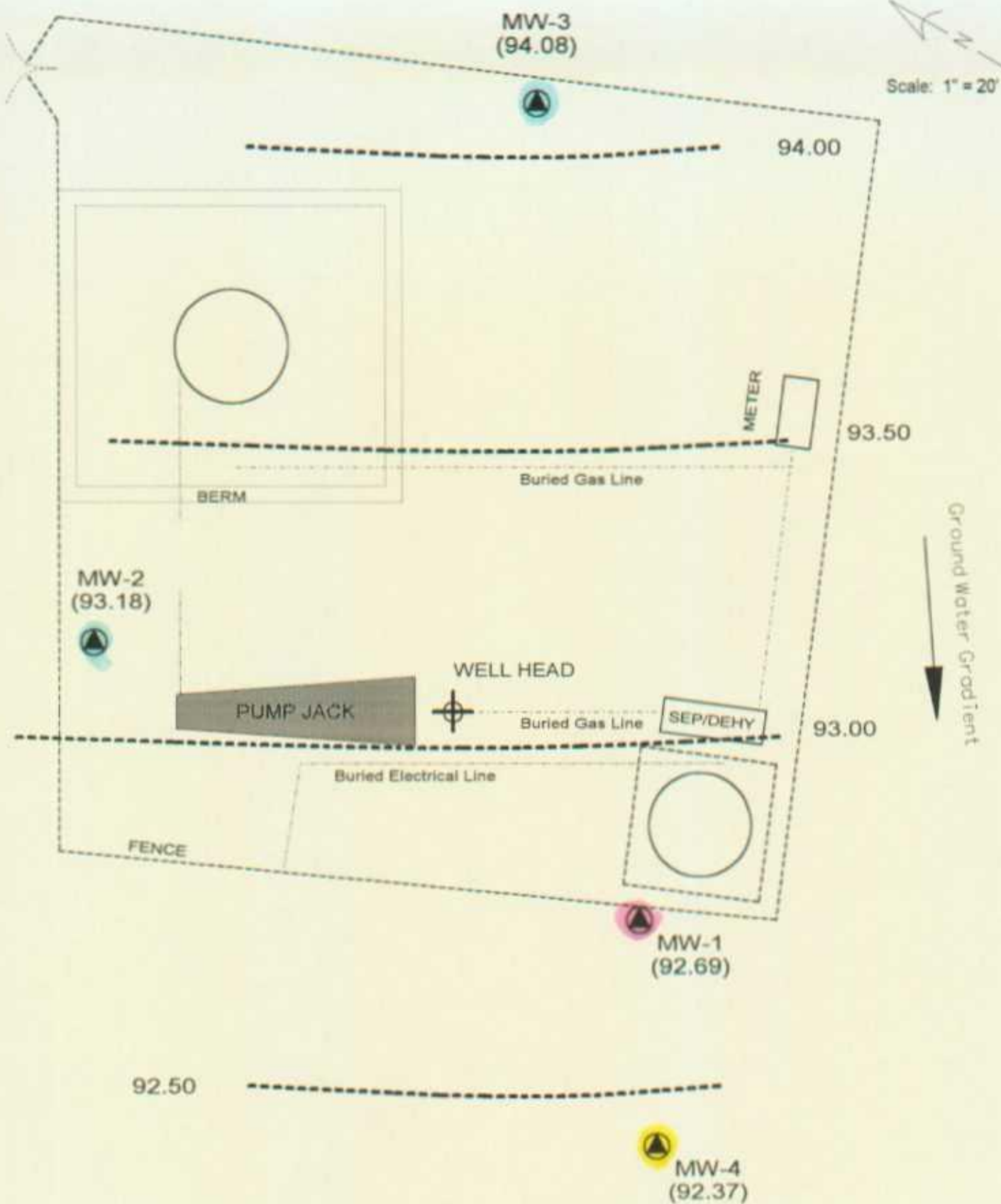
Scale: 1" = 20'



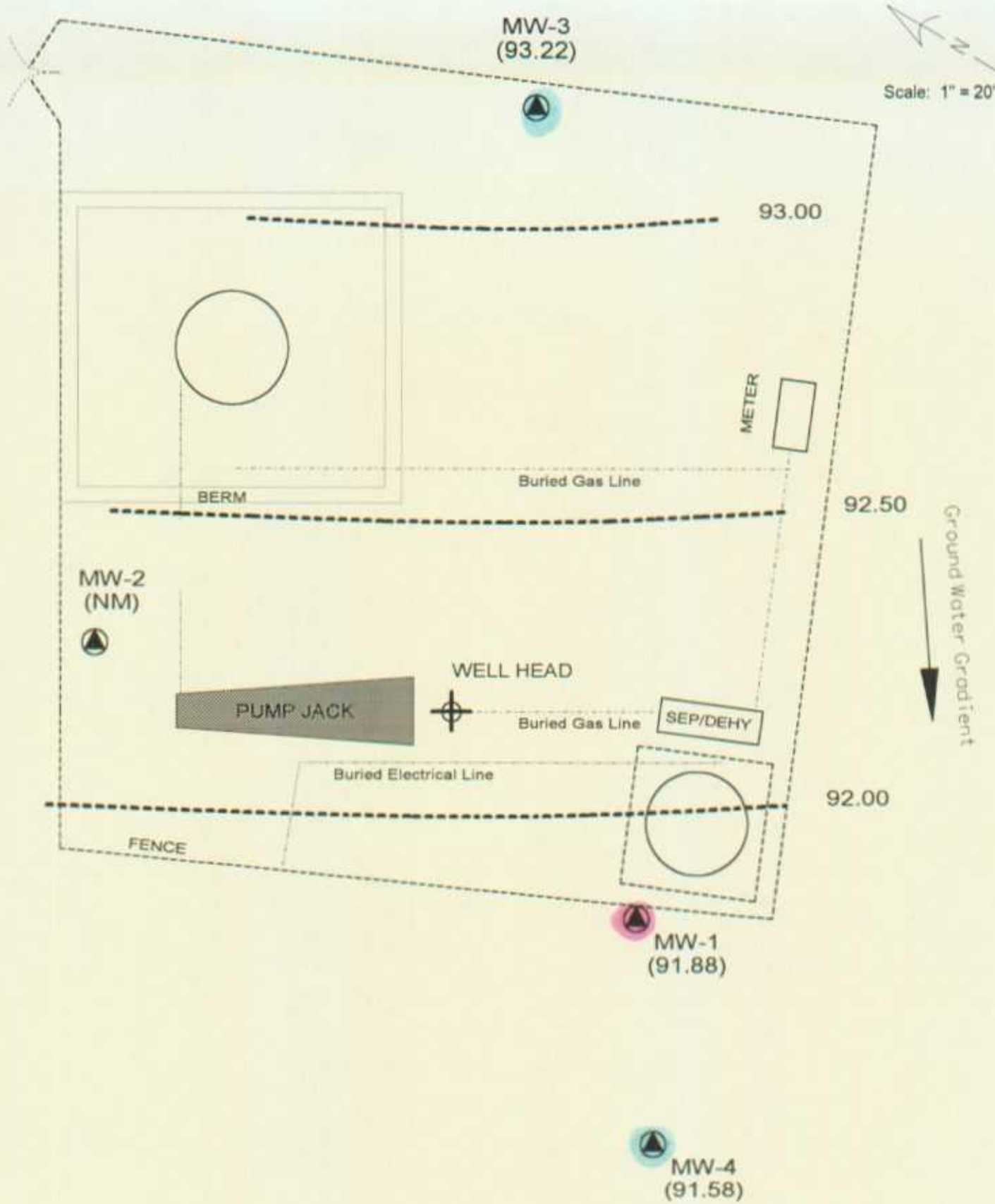
FARMINGTON "C" COM #1 Unit L, S15, T29W, R13W SAN JUAN BASIN, NM		SITE SKETCH		 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667
		DRWN: 11-03-97		
PROJECT NO: 4-1373		DRWN BY: MKL		
FIGURE: 1	FILE: 41303S4.CAD	PROJECT: 1997 Ground Water Report		



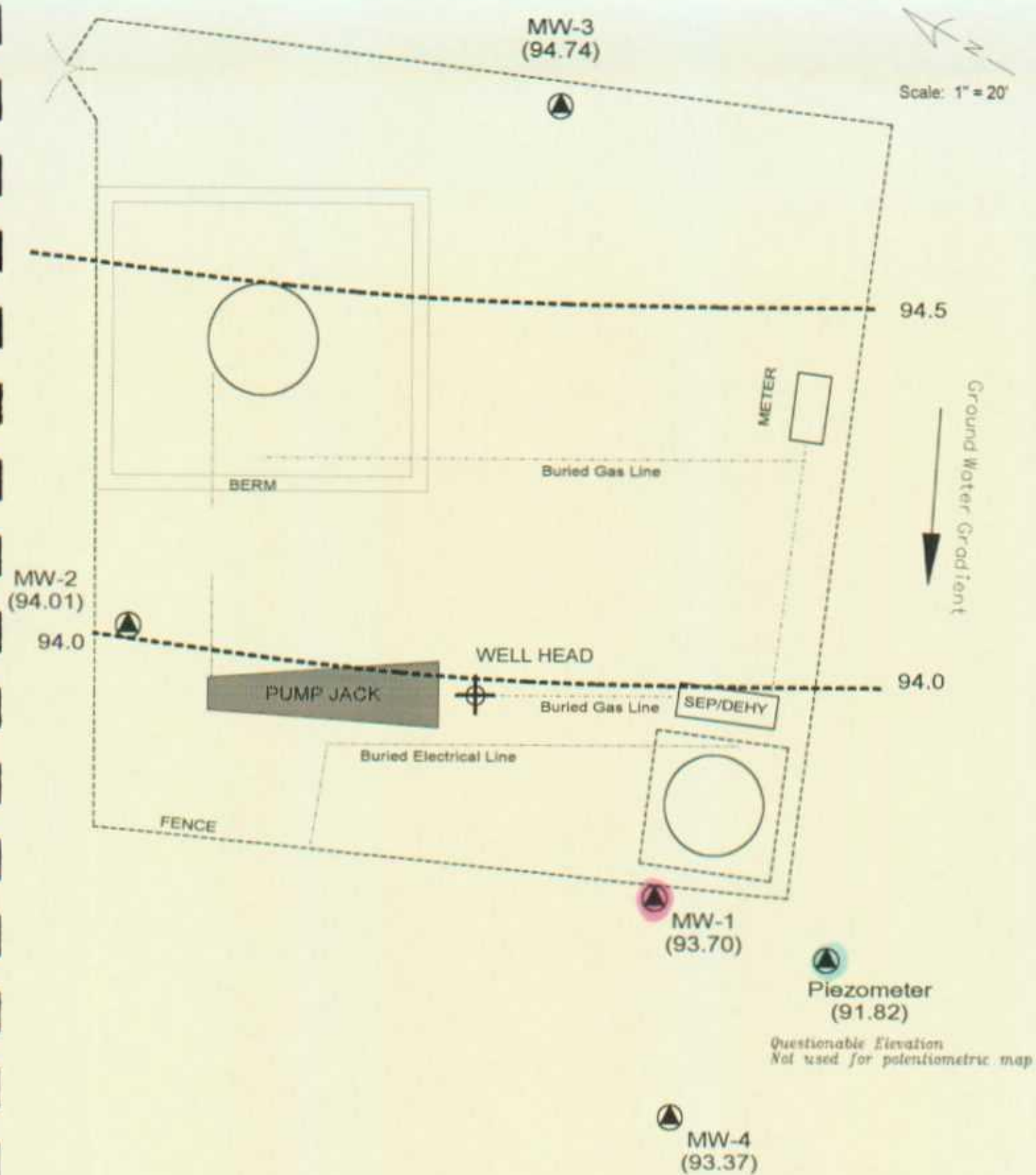
FARMINGTON "C" COM #1 Unit L, S15, T29W, R13W SAN JUAN BASIN, NM		Ground Water Potentiometric Map March 13, 1998	 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667
		DRWN: 11-03-97	
PROJECT NO: 4-1373		DRWN BY: MKL	
FIGURE: 2A	FILE: 41373F2.CAD	PROJECT: 1998 Ground Water Report	



FARMINGTON "C" COM #1 Unit L, S15, T29W, R13W SAN JUAN BASIN, NM		Ground Water Potentiometric Map June 11, 1998	 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87409 (505) 325-5667
		DRWN: 11-03-97	
PROJECT NO: 4-1373		DRWN BY: MKL	
FIGURE: 2B	FILE: 41373F2.CAD	PROJECT: 1998 Ground Water Report	



FARMINGTON "C" COM #1 Unit L, S15, T29W, R13W SAN JUAN BASIN, NM		Ground Water Potentiometric Map September 17, 1998	 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667
		DRWN: 11-03-97	
PROJECT NO: 4-1373		DRWN BY: MKL	
FIGURE: 2C	FILE: 41373F2.CAD	PROJECT: 1998 Ground Water Report	



FARMINGTON "C" COM #1 Unit L, S15, T29W, R13W SAN JUAN BASIN, NM		Ground Water Potentiometric Map December 21, 1998	 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87409 (505) 325-5667
		DRWN: 11-03-97	
PROJECT NO: 4-1373		DRWN BY: MKL	
FIGURE: 2D	FILE: 41373F2.CAD	PROJECT: 1998 Ground Water Report	

OFF: (505) 325-5667



LAB: (505) 325-1556

March 25, 1998

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

RE: 4-1373

Order No.: 9803039

Dear Larry Trujillo,

On Site Technologies, LTD. received 4 samples on 3/12/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
BTEX (SW8020A)

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 dark ink, appearing to read "D Cox", is written over the name David Cox.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 25-Mar-98

CLIENT: Conoco, Inc.

Project: 4-1373

Lab Order: 9803039

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.

Analytical Comments for METHOD BTEX_W, SAMPLE 9803039-01A: Low surrogate recoveries, fluorobenzene and 1,4-difluorobenzene, attributed to sample dependent matrix interference.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	Conoco, Inc.	Client Sample Info:	Farmington C-Com-1
Work Order:	9803039	Client Sample ID:	MW #1
Lab ID:	9803039-01A	Matrix:	AQUEOUS
Project:	4-1373	Collection Date:	3/12/98 10:16:00 AM
		COC#:	6902

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	67	0.5		µg/L	1	3/19/98
Toluene	1.2	0.5		µg/L	1	3/19/98
Ethylbenzene	150	0.5		µg/L	1	3/19/98
m,p-Xylene	25	1		µg/L	1	3/19/98
o-Xylene	ND	0.5		µg/L	1	3/19/98
Surr: Fluorobenzene	36.7	70-130	S	%REC	1	3/19/98
Surr: 1,4-Difluorobenzene	66.0	70-130	S	%REC	1	3/19/98
Surr: 4-Bromochlorobenzene	92.4	70-130		%REC	1	3/19/98

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	Conoco, Inc.	Client Sample Info:	Farmington C-Com-1
Work Order:	9803039	Client Sample ID:	MW #2
Lab ID:	9803039-02A	Matrix:	AQUEOUS
Project:	4-1373	Collection Date:	3/12/98 11:10:00 AM
		COC#:	6902

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	0.5		µg/L	1	3/19/98
Toluene	ND	0.5		µg/L	1	3/19/98
Ethylbenzene	ND	0.5		µg/L	1	3/19/98
m,p-Xylene	ND	1		µg/L	1	3/19/98
o-Xylene	ND	0.5		µg/L	1	3/19/98
Surr: Fluorobenzene	93.3	70-130		%REC	1	3/19/98
Surr: 1,4-Difluorobenzene	94.2	70-130		%REC	1	3/19/98
Surr: 4-Bromochlorobenzene	88.4	70-130		%REC	1	3/19/98

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	Conoco, Inc.	Client Sample Info:	Farmington C-Com-1
Work Order:	9803039	Client Sample ID:	MW #3
Lab ID:	9803039-03A	Matrix:	AQUEOUS
Project:	4-1373	Collection Date:	3/12/98 3:05:00 PM
		COC#:	6902

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	3/19/98
Toluene	ND	0.5		µg/L	1	3/19/98
Ethylbenzene	ND	0.5		µg/L	1	3/19/98
m,p-Xylene	ND	1		µg/L	1	3/19/98
o-Xylene	ND	0.5		µg/L	1	3/19/98
Surr: Fluorobenzene	93.3	70-130		%REC	1	3/19/98
Surr: 1,4-Difluorobenzene	94.1	70-130		%REC	1	3/19/98
Surr: 4-Bromochlorobenzene	91.5	70-130		%REC	1	3/19/98

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	Conoco, Inc.	Client Sample Info:	Farmington C-Com-1
Work Order:	9803039	Client Sample ID:	MW #4
Lab ID:	9803039-04A	Matrix:	AQUEOUS
Project:	4-1373	Collection Date:	3/12/98 10:29:00 AM
		COC#:	6902

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	3/19/98
Toluene	ND	0.5		µg/L	1	3/19/98
Ethylbenzene	1.8	0.5		µg/L	1	3/19/98
m,p-Xylene	2.4	1		µg/L	1	3/19/98
o-Xylene	5.7	0.5		µg/L	1	3/19/98
Surr: Fluorobenzene	93.0	70-130		%REC	1	3/19/98
Surr: 1,4-Difluorobenzene	93.8	70-130		%REC	1	3/19/98
Surr: 4-Bromochlorobenzene	96.1	70-130		%REC	1	3/19/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: Conoco, Inc.
Work Order: 9803039
Project: 4-1373

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98	Prep Date:
Client ID: 9803039	Run ID: GC-1_980319A	PQL	SPK value	SeqNo: 93	
Analyte	Result	PQL	SPK value	%REC	LowLimit
Benzene	.1309	0.5		%RPD	RPDLimit
Ethylbenzene	.1039	0.5			Qual
m,p-Xylene	.2979	1			
o-Xylene	.1068	0.5			
Toluene	.1636	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: 25-Mar-98

CLIENT: Conoco, Inc.

Work Order: 9803039

Project: 4-1373

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9803032-06AMS		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803039		Run ID: GC-1_980319A		PQL		SPK value		SeqNo: 94			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	942.9	10	800	105.3	104.7%	56	128				
Ethylbenzene	921.7	10	800	92.88	103.6%	78	107				
m,p-Xylene	2403	20	1600	765.4	102.4%	67	118				
o-Xylene	957.2	10	800	124	104.2%	78	107				
Toluene	937.4	10	800	108.7	103.6%	74	116				

Sample ID: 9803032-06AMSD		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803039		Run ID: GC-1_980319A		PQL		SPK value		SeqNo: 95			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	891.1	10	800	105.3	98.2%	56	128	942.9	5.6%	15	
Ethylbenzene	893.1	10	800	92.88	100.0%	78	107	921.7	3.2%	15	
m,p-Xylene	2296	20	1600	765.4	95.7%	67	118	2403	4.6%	15	
o-Xylene	907.8	10	800	124	98.0%	78	107	957.2	5.3%	15	
Toluene	886.7	10	800	108.7	97.2%	74	116	937.4	5.6%	15	

Qualifiers:

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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-Mar-98

CLIENT: Conoco, Inc.
Work Order: 9803039
Project: 4-1373

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98	Prep Date:						
Client ID:	9803039	Run ID: GC-1_980319A		SeqNo: 92							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.51	0.5	40	0.1309	103.4%	39	150				
Ethylbenzene	42.39	0.5	40	0.1039	105.7%	32	160				
m,p-Xylene	80.93	1	80	0.2979	100.8%	35	145				
o-Xylene	41.37	0.5	40	0.1068	103.2%	35	145				
Toluene	41.16	0.5	40	0.1636	102.5%	46	148				

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-Mar-98

CLIENT: Conoco, Inc.

Work Order: 9803039

Project: 4-1373

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803039		Run ID: GC-1_980319A		PQL		SPK value		SeqNo: 87			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.65	0.5	20	0	103.3%	85	115				
Ethylbenzene	20.65	0.5	20	0	103.2%	85	115				
m,p-Xylene	39.56	1	40	0	98.9%	85	115				
o-Xylene	20.62	0.5	20	0	103.1%	85	115				
Toluene	20.4	0.5	20	0	102.0%	85	115				
1,4-Difluorobenzene	93.88	0	100	0	93.9%	70	130				
4-Bromochlorobenzene	90.08	0	100	0	90.1%	70	130				
Fluorobenzene	92.88	0	100	0	92.9%	70	130				

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803039		Run ID: GC-1_980319A		PQL		SPK value		SeqNo: 88			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.63	0.5	20	0	108.2%	85	115				
Ethylbenzene	22.12	0.5	20	0	110.6%	85	115				
m,p-Xylene	41.81	1	40	0	104.5%	85	115				
o-Xylene	21.67	0.5	20	0	108.3%	85	115				
Toluene	21.33	0.5	20	0	106.6%	85	115				
1,4-Difluorobenzene	94.01	0	100	0	94.0%	70	130				
4-Bromochlorobenzene	91.89	0	100	0	91.9%	70	130				
Fluorobenzene	92.94	0	100	0	92.9%	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: Conoco, Inc.

Work Order: 9803039

Project: 4-1373

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803039		Run ID: GC-1_980319A		PQL		SPK value		SPK Ref Val		%REC	
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	
Benzene		20.44		0.5		20		0		102.2%	
Ethylbenzene		20.82		0.5		20		0		104.1%	
m,p-Xylene		39.42		1		40		0		98.6%	
o-Xylene		20.48		0.5		20		0		102.4%	
Toluene		20.22		0.5		20		0		101.1%	
1,4-Difluorobenzene		93.73		0		100		0		93.7%	
4-Bromochlorobenzene		89.69		0		100		0		89.7%	
Fluorobenzene		92.81		0		100		0		92.8%	

Sample ID: CCV4 QC0529/30	Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98	Prep Date:						
Client ID: 9803039	Run ID: GC-1_980319A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	20.52	0.5	20	0	102.6%	85	115				S ✓ CONFIRMED CCV4 CCV5 134 02/3/95
Ethylbenzene	23.27	0.5	20	0	116.4%	85	115				
m,p-Xylene	42.37	1	40	0	105.9%	85	115				
o-Xylene	22.3	0.5	20	0	111.5%	85	115				
Toluene	20.38	0.5	20	0	101.9%	85	115				
1,4-Difluorobenzene	93.65	0	100	0	93.7%	70	130				
4-Bromochlorobenzene	90.57	0	100	0	90.6%	70	130				
Fluorobenzene	92.76	0	100	0	92.8%	70	130				

SV
CONFIRMED
BY CCV5
02/25/98

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: Conoco, Inc.

Work Order: 9803039

Project: 4-1373

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV5 QC0529/30 Batch ID: GC-1_980319 Test Code: SW8020A Units: µg/L Analysis Date: 3/19/98 Prep Date:

Client ID: 9803039 Run ID: GC-1_980319A SeqNo: 91

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.33	0.5	20	0	106.6%	85	115				
Ethylbenzene	21.29	0.5	20	0	106.5%	85	115				
m,p-Xylene	40.57	1	40	0	101.4%	85	115				
o-Xylene	21.49	0.5	20	0	107.4%	85	115				
Toluene	21.12	0.5	20	0	105.6%	85	115				
1,4-Difluorobenzene	93.61	0	100	0	93.6%	70	130				
4-Bromochlorobenzene	87.33	0	100	0	87.3%	70	130				
Fluorobenzene	92.92	0	100	0	92.9%	70	130				

Qualifiers:

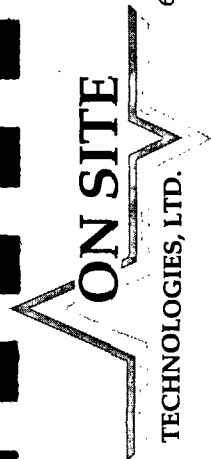
ND - Not Detected at the Reporting Limit

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



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

Purchase Order No.:

Job No. 4-1373

Name Laey Trujillo

Title

**SEND
INVOICE
TO**

Name	Lacey Truitt
------	--------------

Company Comoco

Dept.

Address

City, State, Zip

Sampling Location: C-com-1

ANALYSIS REQUESTED

Sampler:

mpier:
Larry Tracy, 116

SAMPLE IDENTIFICATION

1 cm

mus 42

new #3

334

HCI

135

174

174

Relinquished by:

Date/Time 3/12/98/13

Relinquished by:

Date/Time

Relinquished by:

Date/Time

Method of Shipment:

Rush

24-48 Hours

10 Working Days

Special Instructions:

Authorized by: -

(Client Signature Must Accompany Request)

Date: _____

10

Distribution: White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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ON SITE

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LAB: (505) 325-5667 • FAX: (505) 325-6256

Page 1 of 1

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Name		Company		Company	
Address		Address		Mailing Address		Mailing Address	
City, State, Zip		City, State, Zip		City, State, Zip		City, State, Zip	
Telephone No.		Telephone No.		Telephone No.		Telephone No.	
Sampling Location:		Sampling Location:		ANALYSIS REQUESTED		ANALYSIS REQUESTED	
Sampler:		Sampler:		LAB ID		LAB ID	
SAMPLE IDENTIFICATION		SAMPLE IDENTIFICATION		LAB ID		LAB ID	
DATE		DATE		LAB ID		LAB ID	
TIME		TIME		LAB ID		LAB ID	
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DATE		DATE		LAB ID		LAB ID	
TIME		TIME		LAB			

CHAIN OF CUSTODY RECORD

Date:

Page _____ of _____

TECHNOLOGIES, LTD.

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

[illegible]

Distribution: White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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OFF: (505) 325-5667



LAB: (505) 325-1556

June 17, 1998

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

RE: 4-1373; Conoco

Order No.: 9806041

Dear Larry Trujillo,

On Site Technologies, LTD. received 3 samples on 6/11/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

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 dark ink, appearing to read "David Cox", written in a cursive style.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Project: 4-1373; Conoco
Lab Order: 9806041

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

June 17, 1998

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

RE: 4-1373; Conoco

Order No.: 9806040

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 6/11/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

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 dark ink, appearing to read "David Cox", is written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Project: 4-1373; Conoco

Lab Order: 9806040

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: 17-Jun-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington C-Com-1
Work Order:	9806041	Client Sample ID:	MW #1
Lab ID:	9806041-01A	Matrix:	AQUEOUS
Project:	4-1373; Conoco	Collection Date:	6/11/98 8:38:00 AM
		COC Record:	5141

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	51	0.5		µg/L	1	6/15/98
Toluene	0.7	0.5		µg/L	1	6/15/98
Ethylbenzene	25	0.5		µg/L	1	6/15/98
m,p-Xylene	1.4	1		µg/L	1	6/15/98
o-Xylene	ND	0.5		µg/L	1	6/15/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington C-Com-1
Work Order:	9806041	Client Sample ID:	MW #2
Lab ID:	9806041-02A	Matrix:	AQUEOUS
Project:	4-1373; Conoco	Collection Date:	6/11/98 9:30:00 AM
		COC Record:	5141

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	6/15/98
Toluene	ND	0.5		µg/L	1	6/15/98
Ethylbenzene	ND	0.5		µg/L	1	6/15/98
m,p-Xylene	ND	1		µg/L	1	6/15/98
o-Xylene	ND	0.5		µg/L	1	6/15/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington C-Com-1
Work Order:	9806040	Client Sample ID:	MW #3
Lab ID:	9806040-01A	Matrix:	AQUEOUS
Project:	4-1373; Conoco	Collection Date:	6/11/98 10:46:00 AM
		COC Record:	5140

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	6/15/98
Toluene	ND	0.5		µg/L	1	6/15/98
Ethylbenzene	ND	0.5		µg/L	1	6/15/98
m,p-Xylene	ND	1		µg/L	1	6/15/98
o-Xylene	ND	0.5		µg/L	1	6/15/98

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 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington C-Com-1
Work Order:	9806041	Client Sample ID:	MW #4
Lab ID:	9806041-03A	Matrix:	AQUEOUS
Project:	4-1373; Conoco	Collection Date:	6/11/98 8:11:00 AM
		COC Record:	5141

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	0.5		µg/L	1	6/15/98
Toluene	0.8	0.5		µg/L	1	6/15/98
Ethylbenzene	1.2	0.5		µg/L	1	6/15/98
m,p-Xylene	ND	1		µg/L	1	6/15/98
o-Xylene	ND	0.5		µg/L	1	6/15/98

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 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806040

Project: 4-1373; Conoco

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980615	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/15/98	Prep Date:						
Client ID:	9806040	Run ID: GC-1_980615A		SeqNo: 3106							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0418	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	.1275	1									J
o-Xylene	ND	0.5									
Toluene	.1234	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: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806040

Project: 4-1373; Conoco

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9806015-02AMS		Batch ID: GC-1_980615		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/15/98		Prep Date:	
Client ID: 9806040		Run ID: GC-1_980615A		PQL		SPK value		SeqNo: 3107			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	8159	50	4000	4153	100.1%	56	128				
Ethylbenzene	4411	50	4000	421	99.7%	78	107				
m,p-Xylene	14170	100	8000	6527	95.5%	67	118				
o-Xylene	5239	50	4000	1346	97.3%	78	107				
Toluene	7282	50	4000	3434	96.2%	74	116				

Sample ID: 9806015-02AMSD		Batch ID: GC-1_980615		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/15/98		Prep Date:	
Client ID: 9806040		Run ID: GC-1_980615A		PQL		SPK value		SeqNo: 3108			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	7966	50	4000	4153	95.3%	56	128	8159	2.4%	12	
Ethylbenzene	4305	50	4000	421	97.1%	78	107	4411	2.4%	11	
m,p-Xylene	13820	100	8000	6527	91.2%	67	118	14170	2.5%	10	
o-Xylene	5137	50	4000	1346	94.8%	78	107	5239	2.0%	14	
Toluene	7100	50	4000	3434	91.6%	74	116	7282	2.5%	14	

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: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806040
Project: 4-1373; Conoco

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980615	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/15/98		Prep Date:	
Client ID:		9806040	Run ID: GC-1_980615A		SeqNo: 3105			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene	41.12	0.5	40	0.0418	102.7%	56	128	
Ethylbenzene	42.19	0.5	40	0	105.5%	78	107	
m,p-Xylene	80.34	1	80	0.1275	100.3%	67	118	
o-Xylene	40.85	0.5	40	0	102.1%	78	107	
Toluene	40.86	0.5	40	0.1234	101.8%	74	116	
						%RPD	RPDLimit	Qual

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: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806040

Project: 4-1373; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980615	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/15/98		Prep Date:	
Client ID: 9806040		Run ID: GC-1_980615A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	21.44		0.5	20	0	107.2%	85	115
Ethylbenzene	22.16		0.5	20	0	110.8%	85	115
m,p-Xylene	41.99		1	40	0	105.0%	85	115
o-Xylene	21.39		0.5	20	0	106.9%	85	115
Toluene	21.37		0.5	20	0	106.9%	85	115
1,4-Difluorobenzene	92.64		0	100	0	92.6%	70	130
4-Bromochlorobenzene	79.51		0	100	0	79.5%	70	130
Fluorobenzene	92.78		0	100	0	92.8%	70	130

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980615	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/15/98		Prep Date:	
Client ID: 9806040		Run ID: GC-1_980615A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	20.66		0.5	20	0	103.3%	85	115
Ethylbenzene	21.47		0.5	20	0	107.3%	85	115
m,p-Xylene	40.93		1	40	0	102.3%	85	115
o-Xylene	20.77		0.5	20	0	103.9%	85	115
Toluene	20.79		0.5	20	0	104.0%	85	115
1,4-Difluorobenzene	92.43		0	100	0	92.4%	70	130
4-Bromochlorobenzene	68.57		0	100	0	68.6%	70	130
Fluorobenzene	92.48		0	100	0	92.5%	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: On Site Technologies, Limited Partnership
Work Order: 9806040
Project: 4-1373; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980615		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/15/98		Prep Date:	
Client ID: 9806040		Run ID: GC-1_980615A						SeqNo: 3104			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.25	0.5	20	0	106.3%	85	115				
Ethylbenzene	21.75	0.5	20	0	108.7%	85	115				
m,p-Xylene	40.9	1	40	0	102.3%	85	115				
o-Xylene	21.08	0.5	20	0	105.4%	85	115				
Toluene	21	0.5	20	0	105.0%	85	115				
1,4-Difluorobenzene	93.05	0	100	0	93.1%	70	130				
4-Bromochlorobenzene	84.48	0	100	0	84.5%	70	130				
Fluorobenzene	92.77	0	100	0	92.8%	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

On Site Technologies, LTD.

Date: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806040
Project: 4-1373; Conoco
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ					
9806014-02A	93.9	77.6	94.9					
9806014-03A	87.6	63.9 *	89.4					
9806014-04A	95	67.2 *	95.8					
9806014-05A	89.9	68 *	91.6					
9806015-01A	93.2	69.9 *	93					
9806015-02A	91.6	67.9 *	92.5					
9806015-02AMS	91.8	69.1 *	92.5					
9806015-02AMSD	91.8	68.4 *	92.8					
9806015-03A	92.5	67.4 *	93					
9806030-01A	92.6	67.6 *	92.8					
9806040-01A	92	60.6 *	92					
9806041-01A	92.1	76.9	92.1					
9806041-02A	92.5	65.2 *	92.3					
9806041-03A	93	69.9 *	92.4					
9806043-01A	93	74	93.1					
9806043-02A	91.8	68.1 *	91.3					
9806044-01A	92.4	66.8 *	93					
9806044-02A	89.1	65.2 *	89					
9806044-04A	83.5	61.8 *	103					
CCV1 QC0529/30	92.6	79.5	92.8					
CCV2 QC0529/30	92.4	68.6 *	92.5					
CCV3 QC0529/30	93	84.5	92.8					
LCS WATER	92.4	78.9	92.6					
MB1	93.2	80.5	93.1					

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.

Date: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806041
Project: 4-1373; Conoco

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980615	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/15/98		Prep Date:					
Client ID:	9806041	Run ID: GC-1_980615A		SeqNo: 3106							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0418										J
Ethylbenzene	ND										
m,p-Xylene	.1275										J
o-Xylene	ND										
Toluene	.1234										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: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806041

Project: 4-1373; Conoco

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9806015-02AMS		Batch ID: GC-1_980615		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/15/98		Prep Date:	
Client ID: 9806041		Run ID: GC-1_980615A		PQL		SPK value		SeqNo: 3107			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	8159	50	4000	4153	100.1%	56	128				
Ethylbenzene	4411	50	4000	421	99.7%	78	107				
m,p-Xylene	14170	100	8000	6527	95.5%	67	118				
o-Xylene	5239	50	4000	1346	97.3%	78	107				
Toluene	7282	50	4000	3434	96.2%	74	116				

Sample ID: 9806015-02AMSD		Batch ID: GC-1_980615		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/15/98		Prep Date:	
Client ID: 9806041		Run ID: GC-1_980615A		PQL		SPK value		SeqNo: 3108			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	7966	50	4000	4153	95.3%	56	128	8159	2.4%	12	
Ethylbenzene	4305	50	4000	421	97.1%	78	107	4411	2.4%	11	
m,p-Xylene	13820	100	8000	6527	91.2%	67	118	14170	2.5%	10	
o-Xylene	5137	50	4000	1346	94.8%	78	107	5239	2.0%	14	
Toluene	7100	50	4000	3434	91.6%	74	116	7282	2.5%	14	

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: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806041
Project: 4-1373; Conoco

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980615	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/15/98		Prep Date:				
Client ID:		9806041	Run ID: GC-1_980615A		SeqNo: 3105						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.12	0.5	40	0.0418	102.7%	56	128				
Ethylbenzene	42.19	0.5	40	0	105.5%	78	107				
m,p-Xylene	80.34	1	80	0.1275	100.3%	67	118				
o-Xylene	40.85	0.5	40	0	102.1%	78	107				
Toluene	40.86	0.5	40	0.1234	101.8%	74	116				

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: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806041

Project: 4-1373; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980615		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/15/98		Prep Date:	
Client ID: 9806041		Run ID: GC-1_980615A		PQL		SPK value		SeqNo: 3102			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.44	0.5	20	0	107.2%	85	115				
Ethylbenzene	22.16	0.5	20	0	110.8%	85	115				
m,p-Xylene	41.99	1	40	0	105.0%	85	115				
o-Xylene	21.39	0.5	20	0	106.9%	85	115				
Toluene	21.37	0.5	20	0	106.9%	85	115				
1,4-Difluorobenzene	92.64	0	100	0	92.6%	70	130				
4-Bromochlorobenzene	79.51	0	100	0	79.5%	70	130				
Fluorobenzene	92.78	0	100	0	92.8%	70	130				

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980615		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/15/98		Prep Date:	
Client ID: 9806041		Run ID: GC-1_980615A		PQL		SPK value		SeqNo: 3103			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.66	0.5	20	0	103.3%	85	115				
Ethylbenzene	21.47	0.5	20	0	107.3%	85	115				
m,p-Xylene	40.93	1	40	0	102.3%	85	115				
o-Xylene	20.77	0.5	20	0	103.9%	85	115				
Toluene	20.79	0.5	20	0	104.0%	85	115				
1,4-Difluorobenzene	92.43	0	100	0	92.4%	70	130				
4-Bromochlorobenzene	68.57	0	100	0	68.6%	70	130				S
Fluorobenzene	92.48	0	100	0	92.5%	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: On Site Technologies, Limited Partnership
Work Order: 9806041
Project: 4-1373; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30 Batch ID: GC-1_980615 Test Code: SW8020A Units: µg/L Analysis Date: 6/15/98 Prep Date:
 Client ID: 9806041 Run ID: GC-1_980615A SeqNo: 3104

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.25	0.5	20	0	106.3%	85	115				
Ethylbenzene	21.75	0.5	20	0	108.7%	85	115				
m,p-Xylene	40.9	1	40	0	102.3%	85	115				
o-Xylene	21.08	0.5	20	0	105.4%	85	115				
Toluene	21	0.5	20	0	105.0%	85	115				
1,4-Difluorobenzene	93.05	0	100	0	93.1%	70	130				
4-Bromochlorobenzene	84.48	0	100	0	84.5%	70	130				
Fluorobenzene	92.77	0	100	0	92.8%	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

On Site Technologies, LTD.

Date: 17-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806041

Project: 4-1373; Conoco

Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ					
9806014-02A	93.9	77.6	94.9					
9806014-03A	87.6	63.9 *	89.4					
9806014-04A	95	67.2 *	95.8					
9806014-05A	89.9	68 *	91.6					
9806015-01A	93.2	69.9 *	93					
9806015-02A	91.6	67.9 *	92.5					
9806015-02AMS	91.8	69.1 *	92.5					
9806015-02AMSD	91.8	68.4 *	92.8					
9806015-03A	92.5	67.4 *	93					
9806030-01A	92.6	67.6 *	92.8					
9806040-01A	92	60.6 *	92					
9806041-01A	92.1	76.9	92.1					
9806041-02A	92.5	65.2 *	92.3					
9806041-03A	93	69.9 *	92.4					
9806043-01A	93	74	93.1					
9806043-02A	91.8	68.1 *	91.3					
9806044-01A	92.4	66.8 *	93					
9806044-02A	89.1	65.2 *	89					
9806044-04A	83.5	61.8 *	103					
CCV1 QC0529/30	92.6	79.5	92.8					
CCV2 QC0529/30	92.4	68.6 *	92.5					
CCV3 QC0529/30	93	84.5	92.8					
LCS WATER	92.4	78.9	92.6					
MB1	93.2	80.5	93.1					

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

* Surrogate recovery outside acceptance limits

[illegible]

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

ON SITE

TECHNOLOGIES, LTD.

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

Page ____ of ____

[illegible]

Distribution:	White -- On Site	Yellow -- LAB	Pink -- Sampler	Goldenrod -- Client
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ON SITE

Date:

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

Distribution:	White -- On Site	Yellow -- LAB	Pink -- Sampler	Goldenrod -- Client
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657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

Distribution: White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

CHAIN OF CUSTODY RECORD

Page _____ of _____

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

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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OFF: (505) 325-5667



LAB: (505) 325-1556

September 25, 1998

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

RE: 4-1373; Conoco

Order No.: 9809051

Dear Larry Trujillo,

On Site Technologies, LTD. received 3 samples on 9/18/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

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 dark ink, appearing to read "D Cox", is written over the name David Cox.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership

Project: 4-1373; Conoco

Lab Order: 9809051

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: 25-Sep-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	C-Com-1
Work Order:	9809051	Client Sample ID:	MW-1
Lab ID:	9809051-02A	Matrix:	AQUEOUS
Project:	4-1373; Conoco	Collection Date:	9/18/98 11:30:00 AM
		COC Record:	5561

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	74	1		µg/L	1	9/22/98
Toluene	ND	1		µg/L	1	9/22/98
Ethylbenzene	13	1		µg/L	1	9/22/98
m,p-Xylene	86	2		µg/L	1	9/22/98
o-Xylene	ND	1		µg/L	1	9/22/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	C-Com-1
Work Order:	9809051	Client Sample ID:	MW-3
Lab ID:	9809051-03A	Matrix:	AQUEOUS
Project:	4-1373; Conoco	Collection Date:	9/18/98 11:43:00 AM
		COC Record:	5561

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/L	1	9/22/98
Toluene	ND	1		µg/L	1	9/22/98
Ethylbenzene	ND	1		µg/L	1	9/22/98
m,p-Xylene	ND	2		µg/L	1	9/22/98
o-Xylene	ND	1		µg/L	1	9/22/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	C-Com-1
Work Order:	9809051	Client Sample ID:	MW-4
Lab ID:	9809051-01A	Matrix:	AQUEOUS
Project:	4-1373; Conoco	Collection Date:	9/18/98 11:20:00 AM
		COC Record:	5561

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/L	1	9/22/98
Toluene	ND	1		µg/L	1	9/22/98
Ethylbenzene	ND	1		µg/L	1	9/22/98
m,p-Xylene	ND	2		µg/L	1	9/22/98
o-Xylene	ND	1		µg/L	1	9/22/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9809051

Project: 4-1373; Conoco

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980922	Test Code: SW8020A	Units: µg/L	Analysis Date 9/22/98	Prep Date:						
Client ID:	9809051	Run ID: GC-1_980922A		SeqNo: 6744							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0445	1									J
Ethylbenzene	ND	1									
m,p-Xylene	ND	2									
o-Xylene	.0627	1									J
Toluene	.1011	1									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-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809051
Project: 4-1373; Conoco

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9809055-03AMS		Batch ID: GC-1_980922		Test Code: SW8020A		Units: µg/L		Analysis Date 9/22/98		Prep Date:	
Client ID:		9809051		Run ID: GC-1_980922A				SeqNo: 6745			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	185.3	5	200	1.291	92.0%	56	128				
Ethylbenzene	201.4	5	200	3.72	98.9%	78	107				
m,p-Xylene	416.4	10	400	23.92	98.1%	67	118				
o-Xylene	205.7	5	200	10.49	97.6%	78	107				
Toluene	200.6	5	200	9.649	95.5%	74	116				

Sample ID: 9809055-03AMSD		Batch ID: GC-1_980922		Test Code: SW8020A		Units: µg/L		Analysis Date 9/22/98		Prep Date:	
Client ID:		9809051		Run ID: GC-1_980922A				SeqNo: 6746			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	180.8	5	200	1.291	89.8%	56	128	185.3	2.5%	12	
Ethylbenzene	193.3	5	200	3.72	94.8%	78	107	201.4	4.1%	11	
m,p-Xylene	406.1	10	400	23.92	95.6%	67	118	416.4	2.5%	10	
o-Xylene	204.2	5	200	10.49	96.9%	78	107	205.7	0.7%	14	
Toluene	197.3	5	200	9.649	93.8%	74	116	200.6	1.7%	14	

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-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809051
Project: 4-1373; Conoco

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980922	Test Code: SW8020A		Units: µg/L		Analysis Date 9/22/98		Prep Date:		
Client ID:		9809051	Run ID:	GC-1_980922A		SeqNo: 6743					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.03	1	40	0.0445	97.5%	56	128				
Ethylbenzene	41.56	1	40	0	103.9%	78	107				
m,p-Xylene	82.54	2	80	0	103.2%	67	118				
o-Xylene	40.95	1	40	0.0627	102.2%	78	107				
Toluene	40.15	1	40	0.1011	100.1%	74	116				

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-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9809051

Project: 4-1373; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_980922		Test Code: SW8020A		Units: µg/L		Analysis Date 9/22/98		Prep Date:	
Client ID: 9809051		Run ID: GC-1_980922A		PQL		SPK value		SeqNo: 6741			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.18	1	20	0	100.9%	85	115				
Ethylbenzene	21.48	1	20	0	107.4%	85	115				
m,p-Xylene	42.26	2	40	0	105.6%	85	115				
o-Xylene	20.9	1	20	0	104.5%	85	115				
Toluene	20.74	1	20	0	103.7%	85	115				
1,4-Difluorobenzene	91.14	0	100	0	91.1%	70	130				
4-Bromochlorobenzene	80.67	0	100	0	80.7%	70	130				
Fluorobenzene	91.16	0	100	0	91.2%	70	130				

Sample ID: CCV2 QC0606/07		Batch ID: GC-1_980922		Test Code: SW8020A		Units: µg/L		Analysis Date 9/22/98		Prep Date:	
Client ID: 9809051		Run ID: GC-1_980922A		PQL		SPK value		SeqNo: 6742			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.67	1	20	0	98.3%	85	115				
Ethylbenzene	20.87	1	20	0	104.3%	85	115				
m,p-Xylene	41.74	2	40	0	104.3%	85	115				
o-Xylene	20.89	1	20	0	104.5%	85	115				
Toluene	20.77	1	20	0	103.9%	85	115				
1,4-Difluorobenzene	91.19	0	100	0	91.2%	70	130				
4-Bromochlorobenzene	64.62	0	100	0	64.6%	70	130				S
Fluorobenzene	89.76	0	100	0	89.8%	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

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809051
Project: 4-1373; Conoco
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ					
9809027-04A	88.6	78.6	88.4					
9809035-03A	91.2	62.8 *	90.1					
9809035-04A	91	66.5 *	90.6					
9809035-05A	90.9	65.2 *	90					
9809051-01A	86.7	45.2 *	85.4					
9809051-02A	88.3	56.2 *	87.9					
9809051-03A	91	60.9 *	89.9					
9809055-03A	90.4	56.8 *	89.4					
9809055-03AMS	90.7	76.5	90.3					
9809055-03AMSD	90.2	75.4	90.3					
CCV1 QC0606/07	91.1	80.7	91.2					
CCV2 QC0606/07	91.2	64.6 *	89.8					
LCS WATER	91.3	83.3	90.7					
MB1	92.4	80	91.3					

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.

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

Date: _____

Page

of_

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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ON SITE

Page _____ of _____

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LAB: (505) 325-5667 • FAX: (505) 325-6256

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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OFF: (505) 325-5667



LAB: (505) 325-1556

December 24, 1998

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

RE: 4-1373; Conoco C-Com 1

Order No.: 9812047

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 12/21/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (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", is written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 24-Dec-98

CLIENT: On Site Technologies, Limited Partnership

Project: 4-1373; Conoco C-Com 1

Lab Order: 9812047

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: 24-Dec-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	C-Com 1
Work Order:	9812047	Client Sample ID:	9812211350; MW-1
Lab ID:	9812047-01A	Matrix:	AQUEOUS
Project:	4-1373; Conoco C-Com 1	Collection Date:	12/21/98 1:50:00 PM
		COC Record:	5636

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: DC
Benzene	76	1		µg/L	1	12/23/98
Toluene	ND	1		µg/L	1	12/23/98
Ethylbenzene	78	1		µg/L	1	12/23/98
m,p-Xylene	120	2		µg/L	1	12/23/98
o-Xylene	ND	1		µg/L	1	12/23/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Dec-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	C-Com 1
Work Order:	9812047	Client Sample ID:	9812211355; Piezometer 1
Lab ID:	9812047-02A	Matrix:	AQUEOUS
Project:	4-1373; Conoco C-Com 1	Collection Date:	12/21/98 1:55:00 PM
		COC Record:	5636

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: DC
Benzene	ND	1		µg/L	1	12/23/98
Toluene	ND	1		µg/L	1	12/23/98
Ethylbenzene	ND	1		µg/L	1	12/23/98
m,p-Xylene	ND	2		µg/L	1	12/23/98
o-Xylene	ND	1		µg/L	1	12/23/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 24-Dec-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812047
Project: 4-1373; Conoco C-Com 1

QC SUMMARY REPORT
Method Blank

Sample ID: MB1	Batch ID: GC-1_981223	Test Code: SW8021B	Units: µg/L	Analysis Date 12/23/98	Prep Date:
Client ID: 9812047	Run ID: GC-1_981223A			SeqNo: 9751	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	1			
Ethylbenzene	ND	1			
m,p-Xylene	ND	2			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	1			
Toluene	.1198	1			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: 24-Dec-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812047

Project: 4-1373; Conoco C-Com 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9812044-01AMS		Batch ID: GC-1_981223	Test Code: SW8021B	Units: µg/L	Analysis Date 12/23/98		Prep Date:	
Client ID: 9812047		Run ID: GC-1_981223A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result						RPD Ref Val	%RPD
Benzene	400.5	10	400	12.5	97.0%	56	128	
Ethylbenzene	976.7	10	400	631.4	86.3%	78	107	
m,p-Xylene	1116	20	800	399.6	89.5%	67	118	
Methyl tert-Butyl Ether	374.4	10	400	0	93.6%	70	130	
o-Xylene	519	10	400	140.7	94.6%	78	107	
Toluene	982.8	10	400	626.5	89.1%	74	116	

Sample ID: 9812044-01AMSD		Batch ID: GC-1_981223	Test Code: SW8021B	Units: µg/L	Analysis Date 12/23/98		Prep Date:	
Client ID: 9812047		Run ID: GC-1_981223A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result						RPD Ref Val	%RPD
Benzene	393.5	10	400	12.5	95.3%	56	128	1.8%
Ethylbenzene	957	10	400	631.4	81.4%	78	107	2.0%
m,p-Xylene	1094	20	800	399.6	86.9%	67	118	1.9%
Methyl tert-Butyl Ether	375.2	10	400	0	93.8%	70	130	0.2%
o-Xylene	511.9	10	400	140.7	92.8%	78	107	1.4%
Toluene	963	10	400	626.5	84.1%	74	116	2.0%

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: 24-Dec-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812047
Project: 4-1373; Conoco C-Com 1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS Water		Batch ID: GC-1_981223	Test Code: SW8021B	Units: µg/L	Analysis Date: 12/23/98	Prep Date:	
Client ID: 9812047		Run ID: GC-1_981223A	PQL	SPK value	SPK Ref Val	%REC	%RPD
Analyte	Result	PQL	SPK value	SPK Ref Val	LowLimit	HighLimit	RPD Ref Val
Benzene	40.51	1	40	0	56	128	
Ethylbenzene	41.06	1	40	0	78	107	
m,p-Xylene	79.81	2	80	0	67	118	
Methyl tert-Butyl Ether	38.65	1	40	0	70	130	
o-Xylene	41.21	1	40	0	78	107	
Toluene	40.64	1	40	0.1198	74	116	

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: 24-Dec-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812047

Project: 4-1373; Conoco C-Com 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07	Batch ID: GC-1_981223	Test Code: SW8021B	Units: µg/L	Analysis Date 12/23/98				Prep Date:					
Client ID:	9812047	Run ID:	GC-1_981223A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	21.13			1	20	0	105.7%	85	115				
Ethylbenzene	21.48			1	20	0	107.4%	85	115				
m,p-Xylene	41.47			2	40	0	103.7%	85	115				
Methyl tert-Butyl Ether	19.99			1	20	0	100.0%	85	115				
o-Xylene	21.57			1	20	0	107.9%	85	115				
Toluene	21.28			1	20	0	106.4%	85	115				
1,4-Difluorobenzene	88.54			0	100	0	88.5%	70	130				
4-Bromochlorobenzene	101.5			0	100	0	101.5%	70	130				
Fluorobenzene	84.95			0	100	0	84.9%	70	130				

Sample ID: CCV2 QC0606/07		Batch ID: GC-1_981223	Test Code: SW8021B	Units: µg/L		Analysis Date 12/23/98			Prep Date:					
Client ID:		9812047	Run ID:	GC-1_981223A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result													
Benzene	20.85			1		20	0	104.3%	85	115				
Ethylbenzene	21.19			1		20	0	105.9%	85	115				
m,p-Xylene	40.82			2		40	0	102.0%	85	115				
Methyl tert-Butyl Ether	20.29			1		20	0	101.5%	85	115				
o-Xylene	21.41			1		20	0	107.0%	85	115				
Toluene	20.98			1		20	0	104.9%	85	115				
1,4-Difluorobenzene	87.86			0		100	0	87.9%	70	130				
4-Bromochlorobenzene	101.5			0		100	0	101.5%	70	130				
Fluorobenzene	85.17			0		100	0	85.2%	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

On Site Technologies, LTD.

Date: 24-Dec-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812047

Project: 4-1373; Conoco C-Com 1

Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ					
9812035-01A	85	98.4	82.5					
9812037-21A	94	101	87.4					
9812044-01A	88.2	102	85.4					
9812044-01AMS	88.3	102	85					
9812044-01AMSD	88.4	102	84.9					
9812047-01A	87.6	102	85.3					
9812047-02A	88.6	103	85.1					
9812048-01A	88.7	102	85.1					
9812048-02A	86.1	98.7	87.6					
CCV1 QC0606/07	88.5	102	84.9					
CCV2 QC0606/07	87.8	101	85.2					
LCS Water	87.9	102	85					
MB1	88.3	102	85.2					

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

* Surrogate recovery outside acceptance limits

TECHNOLOGIES, LTD.

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Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Company		Company		Company	
Address		Dept.		Mailing Address		Mailing Address	
City, State, Zip		City, State, Zip		City, State, Zip		City, State, Zip	
Sampling Location:		City, State, Zip		Telephone No.		Telefax No.	
Sampler:		LABORATORY		LABORATORY		LABORATORY	
SAMPLE IDENTIFICATION		DATE		TIME		MATRIX	
PRES.		DATE		TIME		MATRIX	
RESULTS TO		REPORT		RESULTS TO		REPORT	
Number of Containers		Number of Containers		Number of Containers		Number of Containers	
LAB ID		LAB ID		LAB ID		LAB ID	
ANALYSIS REQUESTED		ANALYSIS REQUESTED		ANALYSIS REQUESTED		ANALYSIS REQUESTED	
Relinquished by:		Date/Time		Date/Time		Date/Time	
Relinquished by:		Date/Time		Date/Time		Date/Time	
Relinquished by:		Date/Time		Date/Time		Date/Time	
Method of Shipment:		Date/Time		Date/Time		Date/Time	
Authorized by:		Date		Date		Date	
(Client Signature Must Accompany Request)		(Client Signature Must Accompany Request)		(Client Signature Must Accompany Request)		(Client Signature Must Accompany Request)	

Distribution: White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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