

3R - 83

REPORTS

DATE:

2/26/2001



RECEIVED February 26, 2001

MAR 22 2001

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

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION
Project No.: 4-1325

RE: 2000 Annual Ground Water Report
Conoco Location: Farmington, B COM #1
Unit H, Sec. 12, T29N R12W, NMPM, San Juan Co., NM

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 in March, June, September of 1999 and January, 2001. Water Sampling Point 1 (WSP1) continues to have BTEX contamination above New Mexico Water Quality Control Commission (NMWQCC) standards.

SAMPLING:

In accordance with the monitoring plan, water levels were measured in 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. The laboratory analyses ordered, followed the monitoring 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 2000, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

SUMMARY AND CONCLUSIONS:

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

1. BTEX constituents, appears above the NMWQCC standards.
2. WSP #1 continues to show concentrations of BTEX contamination above NMWQCC standards.
3. The 2000 ground water elevations and flow gradient fluctuated seasonally with changes in irrigation and flow in the Animas River.

PO Box 2606
Farmington, NM 87499

505-325-5667

FAX: 505-327-1496

RECOMMENDATION:

1. Continue to monitor WSP-1 until four (4) clean sampling events.
2. All other WSPs to be sampled during final round for closure.
3. When sampling requirements have been completed. Prepare a Final Pit Closure Form to be submitted to NMOCD for approval.
4. Following NMOCD's approval of closure, plug and abandoned all monitoring wells in accordance with NMOCD regulations.

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 2000. 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 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,

Reviewed by:



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



Michael K. Lane, P.E.
Senior Engineer

ON SITE TECHNOLOGIES LIMITED PARTNERSHIP

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
BTEX Concentration Graph
Laboratory Results, QA/QC, Chain-of Custody

Acknowledgment:
CONOCO, Inc.

Dary Fedboth Shear Specialist
(Name/Title)
2/27/01
(Date)

LET/let: 41325-98.doc

REFERENCES:

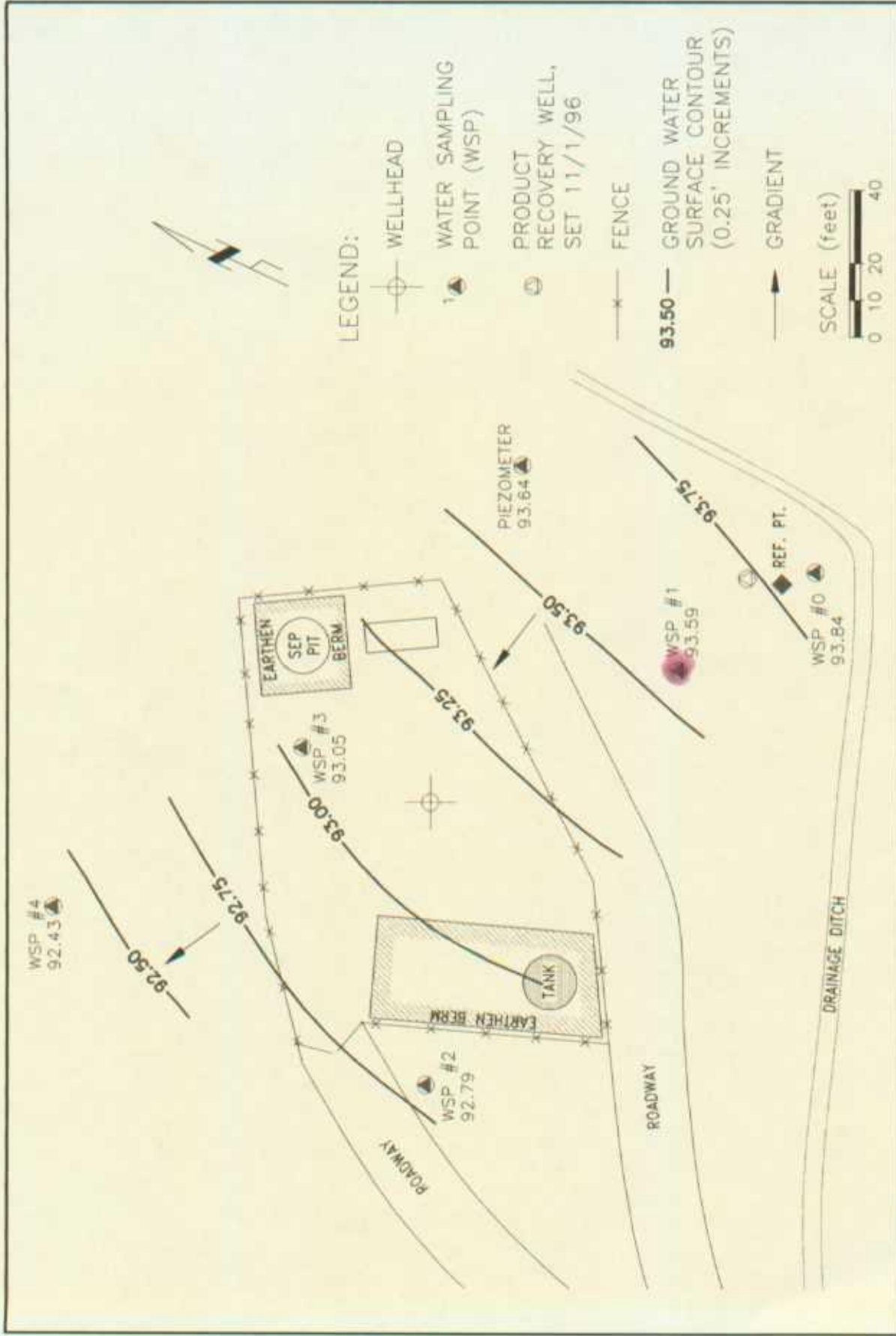
On Site Technologies, Ltd., April 16, 1997, letter to Mr. W.L. Brignon, Senior Council Conoco, Inc. Midland Division, regarding: Investigation and Remediation Summary, Conoco Location, Farmington B Com #1, Unit H, Sec. 12, T29N, R12W, NMPM, San Juan Co., NM.

On Site Technologies, Ltd., November 6, 1996, letter to Mr. C. John Coy, Field SHEAR Specialist Conoco, Inc. Midland Division, regarding: Suspected Hydrocarbon Release Interim Report, Conoco Location, Farmington B Com #1, Unit H, Sec 12, T29N, R12W, NMPM, San Juan Co., NM.

On Site Technologies, Ltd., February 1, 1998, letter to Ms. Shirley Ebert, Field SHEAR Specialist Conoco, Inc. Midland Division, regarding: 1997 Annual Ground Water Report, Conoco Location, Farmington B Com #1, Unit H, Sec 12, T29N, R12W, NMPM, San Juan Co., NM.

On Site Technologies, Ltd., January 4, 1999, letter to Ms. Shirley Ebert, Field SHEAR Specialist Conoco, Inc. Midland Division, regarding: 1998 Annual Ground Water Report, Conoco Location, Farmington B Com #1, Unit H, Sec 12, T29N, R12W, NMPM, San Juan Co., NM

On Site Technologies, Ltd., January 5, 2000, letter to Ms. Shirley Ebert, Field SHEAR Specialist Conoco, Inc. Midland Division, regarding: 1999 Annual Ground Water Report, Conoco Location, Farmington B Com #1, Unit H, Sec 12, T29N, R12W, NMPM, San Juan Co., NM



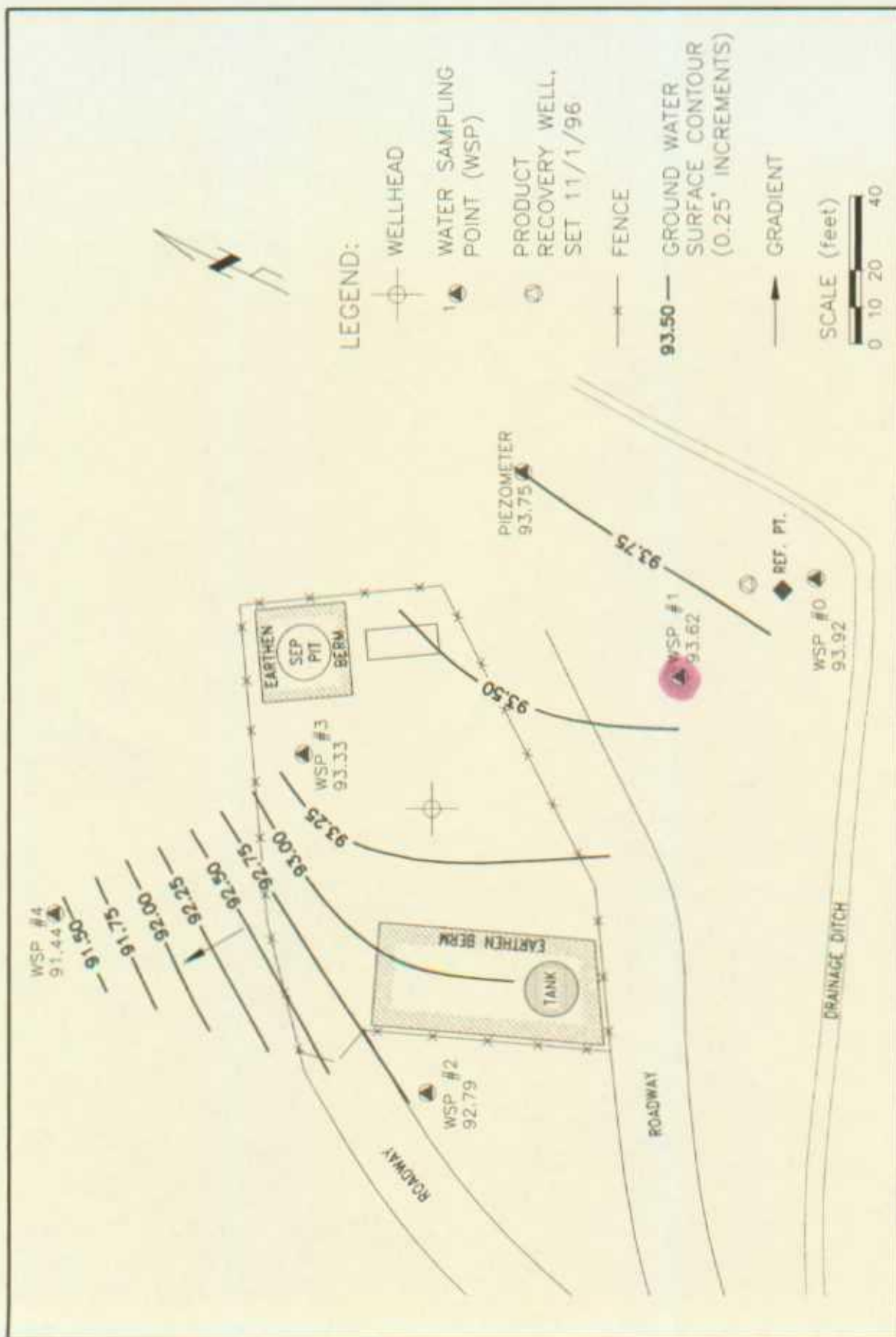
ON SITE
TECHNOLOGIES, LTD.
United Partnership

818 E. MURRAY DR.
FARMINGTON, NM 87401

PH. (505) 825-6687
FAX (505) 827-1496

APPROVED:	DATE:
DRWN BY: MED	DATE: 2/14/01
CHK'D BY:	DATE:
PROJECT NO. 4-1325	SHEET: 1 OF 4

GROUND WATER SURFACE MAP
MARCH, 2000
CONOCO B COM #1
FARMINGTON, NM



GROUND WATER SURFACE MAP

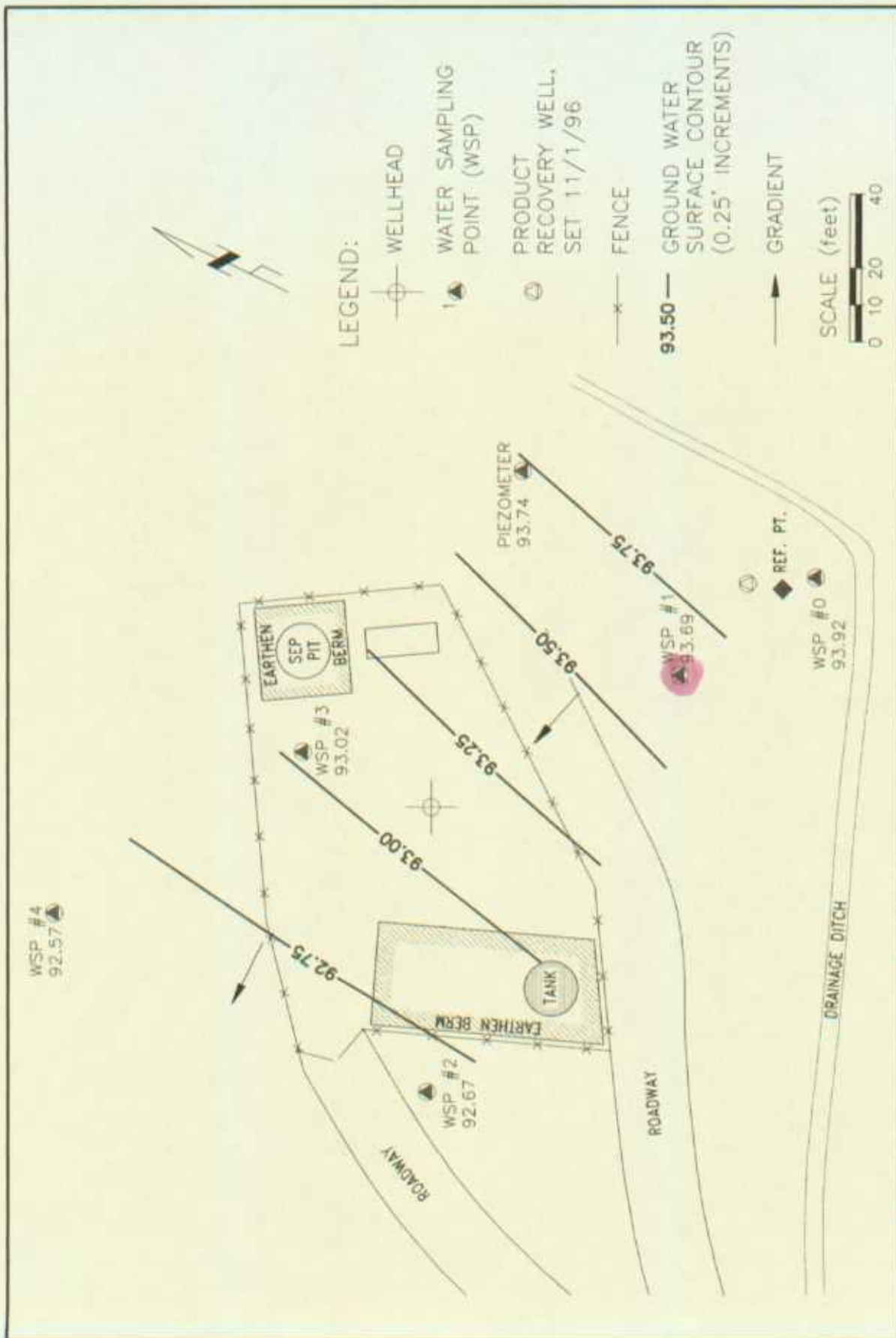
JUNE, 2000

CONOCO B COM #1
FARMINGTON, NM

APPROVED:	DATE:
DRWN BY: MED	DATE: 2/14/01
CHK'D BY:	DATE:
PROJECT NO: 4-1325	SHEET: 2 OF 4



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FARMINGTON, NM 87401 FAX (505) 887-1498



GROUND WATER SURFACE MAP

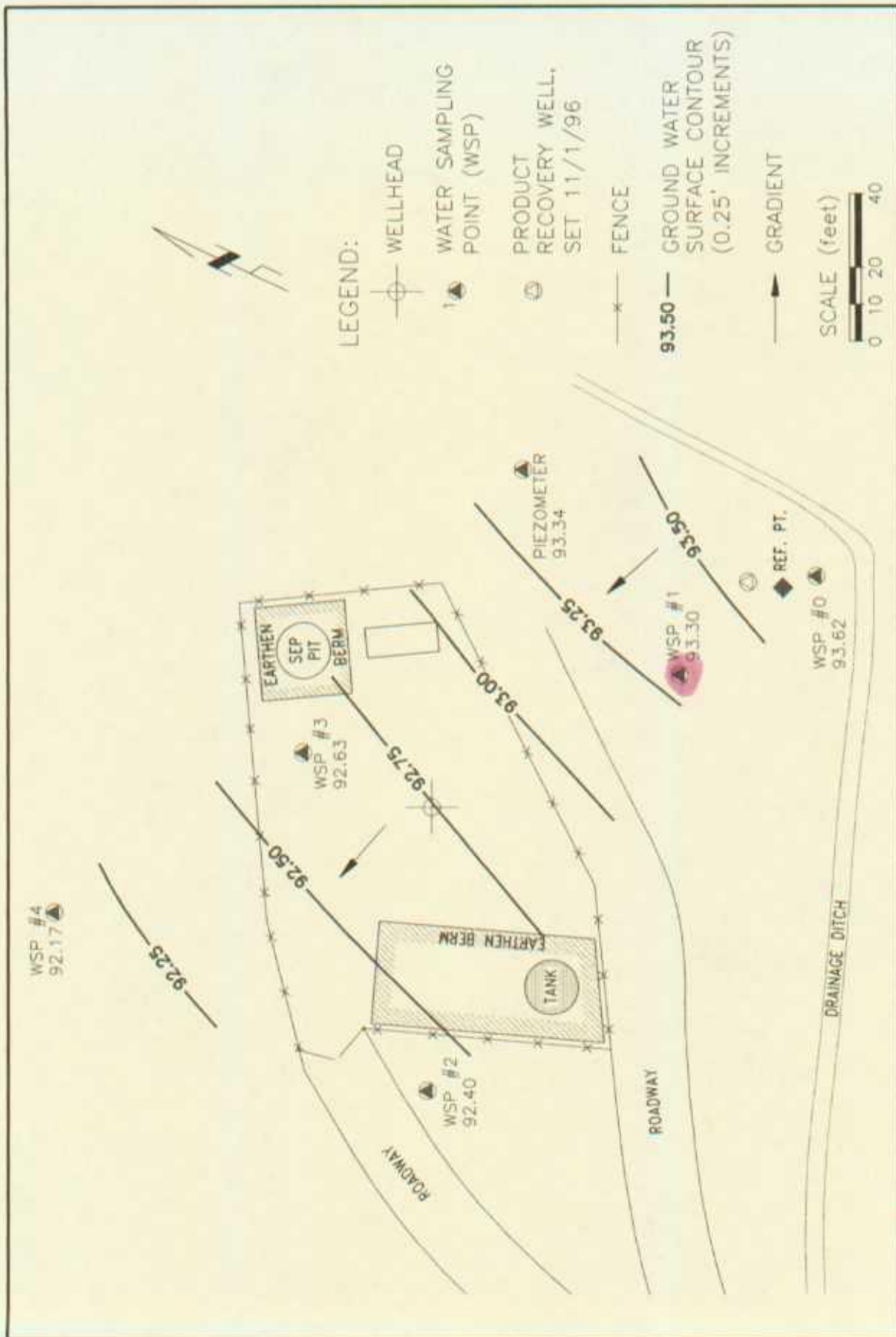
SEPTEMBER, 2000

CONOCO B COM #1
FARMINGTON, NM

APPROVED:	DATE:
DRWN BY: MED	DATE: 2/14/01
CHK'D BY:	DATE:
PROJECT NO: 4-1325	SHEET: 3 OF 4



918 E. MURRAY DR. PH. (505) 825-5687
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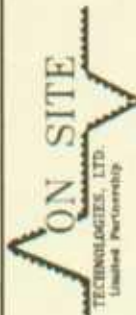
GROUND WATER SURFACE MAP

JANUARY, 2001

CONOCO B COM #1

FARMINGTON, NM

APPROVED:	DATE:
DRWN. BY: MED	DATE: 2/14/01
CHK'D BY:	DATE:
PROJECT NO: 4-1325	SHEET: 4 OF 4



918 E. MURRAY DR.
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Table 1
Groundwater Level Summary
Farmington B Com 1
Unit H, Sec. 12, T29N, R12W

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)
WSP-0	100.83	9.41	1" PVC	9.41	06/01/97	7.30	93.53
					09/16/97	7.21	93.62
					12/05/97	6.71	94.12
					3/12/98	6.97	93.86
					6/15/98	7.01	93.82
					9/15/98	6.82	94.01
					12/21/98	6.80	94.03
					3/2/99	7.21	93.62
					6/7/99	6.78	94.05
					9/14/99	6.98	93.85
					12/13/99	6.99	93.84
					3/13/00	6.99	93.84
					6/5/00	6.91	93.92
					9/11/00	6.86	93.97
					1/23/01	7.21	93.62

* Temporary Bench Mark (TBM): Flange of the wellhead; Relative Elevation 100'
BGS - approximate measurements taken as Below Ground Surface
BTOC - Below Top of Casing
NM - Not Measured

Table 1
Groundwater Level Summary
Farmington B Com 1
Unit H, Sec. 12, T29N, R12W

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)
WSP-1	98.01	9.73	2" PVC	4.73-9.73	06/01/97	5.43	92.58
					09/16/97	6.52	91.49
					12/05/97	4.07	93.94
					3/12/98	4.26	93.75
					6/15/98	4.32	93.69
					9/15/98	4.12	93.89
					12/21/98	4.18	93.83
					3/2/99	4.61	93.40
					6/7/99	4.17	93.84
					9/14/99	4.36	93.65
					12/13/99	4.34	93.67
					3/13/00	4.42	93.59
					6/5/00	4.39	93.62
					9/11/00	4.32	93.69
					1/23/01	4.71	93.30

* Temporary Bench Mark (TBM): Flange of the wellhead, Relative Elevation 100'
BGS - approximate measurements taken as Below Ground Surface
BTOC - Below Top of Casing
NM - Not Measured

Table 1
Groundwater Level Summary
Farmington B Com 1
Unit H, Sec. 12, T29N, R12W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)*	Well Type	Screen Interval (ft) (BGS)*	Sample Date	Depth to Groundwater (ft) (BTQC)*	Relative Groundwater Elevation (ft)
WSP-2	99.31	10.16	2" PVC	5.16-10.16			
					06/01/97	5.57	93.74
					09/16/97	6.37	92.94
					12/05/97	6.22	93.09
					3/12/98	6.35	92.96
					6/15/98	6.41	92.90
					9/15/98	6.31	93.00
					12/21/98	6.17	93.14
					3/2/99	6.52	92.79
					6/7/99	6.24	93.07
					9/14/99	6.51	92.80
					12/13/99	6.57	92.74
					3/13/00	6.52	92.79
					6/5/00	7.14	92.79
WSP-3	99.17	10.15	2" PVC	5.15-10.15	9/11/00	6.64	92.67
					1/23/01	6.91	92.40
					06/01/97	6.05	93.12
					09/16/97	6.17	93.00
					12/05/97	5.75	93.42
					3/12/98	5.90	93.27
					6/15/98	5.88	93.29
					9/15/98	6.02	93.15
					12/21/98	6.15	93.52
					3/2/99	6.14	93.03
					6/7/99	5.57	93.60

Temporary Bench Mark (TBM): Flange of the wellhead, Relative Elevation 100'
 BGS - approximate measurements taken as Below Ground Surface
 BTQC - Below Top of Casing NM - Not Measured
 1: Resurveyed elevation as of 12/31/98
 Water Elevation for WSP-4 correct for March, June September and December sampling events

Table 1
Groundwater Level Summary
Farmington B Com 1
Unit H, Sec. 12, T29N, R12W

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)
WSP-3	99.17	10.15	2" PVC	5.15-10.15			
					9/14/99	5.99	93.18
					12/13/99	6.06	93.11
					3/13/00	6.12	93.05
					6/5/00	8.45	93.33
					9/11/00	6.15	93.02
					1/23/01	6.54	92.63
WSP-4	98.85	7.41	2" PVC	2.41-7.41			
					06/01/97	3.91	94.94
					09/16/97	3.98	94.87
					12/05/97	4.01	94.84
					3/12/98	4.10	92.75
					6/15/98	4.12	92.73
					9/15/98	4.20	92.65
					12/21/98	3.87	92.98
					3/2/99	4.31	94.54
					6/7/99	3.82	93.03
					9/14/99	4.12	94.73
					12/13/99	4.31	94.54
					3/13/00	4.42	92.43
					6/5/00	6.55	91.44
					9/11/00	4.28	92.57
					1/23/01	4.68	92.17

Temporary Bench Mark (TBM): Flange of the wellhead, Relative Elevation 100'

BGS - approximate measurements taken as Below Ground Surface

BTOC - Below Top of Casing

NM - Not Measured

1. Resurveyed elevation as of 12/31/98

Water Elevation for WSP-4 correct for March, June September and December sampling events

Table 1

Temporary Bench Mark (TBM); Flange of the wellhead, Relative Elevation 100'
BGS - approximate measurements taken as Below Ground Surface
BITOC - Below Top of Casing
NM - Not Measured
1; Resurveyed elevation as of 12/31/98
Water Elevation for WSP-4 correct for March, June September and December

Table 2

BTEX Analytical Summary

Farmington B Com 1

Unit H, Sec. 12, T29N, R12W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Benzene	Toluene	Ethylbenzene	Total Xylene	
03/18/97	13939	WSP-0	On Site Lab.	<0.3	<0.2	<0.2	0.5	
06/11/97	14902			BDL	0.2	BDL	BDL	
09/16/97	16205			BDL	BDL	BDL	BDL	
12/5/97	17048			BDL	BDL	BDL	0.2	
3/12/98	9803040-01A			BDL	BDL	BDL	BDL	
6/15/98	9806057-01A			BDL	BDL	BDL	BDL	
9/15/98	9809034-01A			BDL	BDL	BDL	BDL	
03/18/97	13935	WSP-1	On Site Lab	557.1	146.3	555.1	3572.1	
06/11/97	14903			155.0	22.0	184.0	1457.0	
09/17/97	16206			175.0	23.0	179.0	1236.0	
12/05/97	17049			202.0	22.0	164.0	1196.0	
3/12/98	9803040-02A			110.0	25.0	150.0	1290.0	
6/15/98	9806057-02A			110.0	12.0	170.0	1160.0	
9/15/98	9809034-02A			69.0	13.0	150.0	1100.0	
12/21/98	9812048-02A			86.0	55.0	170.0	1040.0	
3/2/99	9903008-01A			45.0	BDL	130.0	720.0	
6/7/99	9906022-01A			78.0	8.5	260.0	1670.0	
9/14/99	9909047-01A			56.0	36.0	190.0	1170.0	
12/13/99	9912016-01A			31.0	3.1	110.0	840.0	
3/13/00	0003019-01A			44.0	BDL	140.0	910.0	
6/5/00	0006010-01A			30.0	7.6	65.0	399.0	
9/11/00	009018-01A			23.0	BDL	100.0	652.0	
1/23/01	0101031-01A			24.0	BDL	31.0	312.0	
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

BDL Below Detection Levels

Table 2

BTEX Analytical Summary
Farmington B Com 1
Unit H, Sec. 12, T29N, R12W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
01/30/97	13563	WSP-2	On Site Lab.	22.5	23.0	23.7	108.0
03/18/97	13936			25.8	13.4	11.8	53.8
06/11/97	14904			10.1	5.3	9.2	22.7
09/16/97	16208			3.9	1.0	4.5	14.8
12/05/97	17050			1.6	1.0	1.4	3.6
3/12/98	9803040-03A			0.9	BDL	1.0	3.2
6/15/98	9806057-03A			BDL	BDL	BDL	1.1
9/15/98	9809034-03A			BDL	BDL	BDL	BDL
01/30/97	13562	WSP-3	On Site Lab.	506.8	22.0	67.8	607.1
03/18/97	13937			35.8	1.9	1.1	7.2
06/12/97	14906			8.5	0.5	1.5	1.4
09/17/97	16211			ND	0.7	0.4	0.9
12/05/97	17051			1.6	BDL	BDL	BDL
3/12/98	9803040-04A			BDL	BDL	BDL	0.5
6/15/98	9806057-04A			BDL	BDL	BDL	BDL
9/15/98	9809034-04A			BDL	BDL	BDL	BDL
03/18/97	13938	WSP-4	On Site Lab.	<0.2	27.1	<0.2	1.0
06/11/97	14905			BDL	0.2	BDL	0.4
09/16/97	16207			0.9	BDL	BDL	BDL
12/05/97	17052			BDL	BDL	BDL	BDL
3/12/98	9803040-05A			BDL	BDL	BDL	BDL
6/15/98	9806057-05A			BDL	BDL	BDL	BDL
9/15/98	9809034-05A			BDL	BDL	BDL	BDL
12/21/98	9812048-01A	Piezometer	On Site Lab.	BDL	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

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



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

January 31, 2001

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: 4-1325; Farmington B-Com-1

Order No.: 0101031

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 1/23/2001 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 be 'David Cox', written over a horizontal line.

David Cox

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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

On Site Technologies, LTD.

Date: 31-Jan-01

CLIENT: On Site Technologies Limited
Project: 4-1325; Farmington B-Com-1
Lab Order: 0101031

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).

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

ANALYTICAL REPORT

Date: 31-Jan-01

Client:	On Site Technologies Limited	Client Sample Info:	Farmington B-Com-1
Work Order:	0101031	Client Sample ID:	MW-1
Lab ID:	0101031-01A	Matrix:	AQUEOUS
Project:	4-1325; Farmington B-Com-1	Collection Date:	1/23/2001 9:05:00 AM
		COC Record:	11100

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	24	2.5		µg/L	5	1/29/2001
Toluene	ND	2.5		µg/L	5	1/29/2001
Ethylbenzene	31	2.5		µg/L	5	1/29/2001
m,p-Xylene	270	5		µg/L	5	1/29/2001
o-Xylene	42	2.5		µg/L	5	1/29/2001

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

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 31-Jan-01

CLIENT: On Site Technologies Limited
Work Order: 0101031
Project: 4-1325; Farmington B-Com-1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010129	Test Code: SW8021B	Units: µg/L	Analysis Date: 1/29/2001	Prep Date:						
Client ID:	0101031	Run ID: GC-1_010129A		SeqNo: 34779							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	ND	0.5									

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	

On Site Technologies, LTD.

Date: 31-Jan-01

CLIENT: On Site Technologies Limited
Work Order: 0101031
Project: 4-1325; Farmington B-Com-1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0101031-01AMS		Batch ID: GC-1_010129		Test Code: SW8021B		Units: µg/L		Analysis Date 1/29/2001		Prep Date:	
Client ID: MW-1		Run ID: 0101031		GC-1_010129A		SeqNo: 34780					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	200	2.5	200	24	88.0%	84	111				
Ethylbenzene	217.3	2.5	200	31	93.2%	84	111				
m,p-Xylene	642.2	5	400	270	93.1%	84	108				
Methyl tert-Butyl Ether	194	5	200	30	82.0%	80	117				
o-Xylene	232.5	2.5	200	42	95.2%	89	107				
Toluene	199.6	2.5	200	0	99.8%	90	107				

Sample ID: 0101031-01AMS		Batch ID: GC-1_010129		Test Code: SW8021B		Units: µg/L		Analysis Date 1/29/2001		Prep Date:	
Client ID: MW-1		Run ID: 0101031		GC-1_010129A		SeqNo: 34781					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	213.6	2.5	200	24	94.8%	84	111	200	6.6%	8	
Ethylbenzene	232.6	2.5	200	31	100.8%	84	111	217.3	6.8%	7	
m,m,p-Xylene	686.1	5	400	270	104.0%	84	108	642.2	6.6%	7	
Methyl tert-Butyl Ether	192.7	5	200	30	81.4%	80	117	194	0.7%	6	
o-Xylene	245.5	2.5	200	42	101.8%	89	107	232.5	5.5%	6	
Toluene	213.3	2.5	200	0	106.7%	90	107	199.6	6.7%	6	R

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: 31-Jan-01

CLIENT: On Site Technologies Limited
Work Order: 0101031
Project: 4-1325; Farmington B-Com-1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_010129	Test Code: SW8021B	Units: µg/L	Analysis Date 1/29/2001	Prep Date:
Client ID: 0101031	Run ID: GC-1_010129A	PQL	SPK value	SeqNo: 34778	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	39.81	0.5	0	92	109
Ethylbenzene	39.57	0.5	0	92	112
m,p-Xylene	78.34	1	0	91	108
Methyl tert-Butyl Ether	36.59	1	0	89	116
o-Xylene	39.72	0.5	0	93	109
Toluene	39.64	0.5	0	93	108
				%REC	%RPD
				99.5%	
				98.9%	
				97.9%	
				91.5%	
				99.3%	
				99.1%	
				RPD Limit	Qual

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	

On Site Technologies, LTD.

Date: 31-Jan-01

CLIENT: On Site Technologies Limited
Work Order: 0101031
Project: 4-1325; Farmington B-Com-1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0012		Batch ID: GC-1_010129		Test Code: SW8021B		Units: µg/L		Analysis Date 1/29/2001		Prep Date:	
Client ID:		0101031		Run ID: GC-1_010129A				SeqNo: 34776			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.08	0.5	20	0	100.4%	85	115				
Ethylbenzene	20.08	0.5	20	0	100.4%	85	115				
m,p-Xylene	39.87	1	40	0	99.7%	85	115				
Methyl tert-Butyl Ether	18.37	1	20	0	91.9%	85	115				
o-Xylene	20.14	0.5	20	0	100.7%	85	115				
Toluene	19.9	0.5	20	0	99.5%	85	115				
1,4-Difluorobenzene	75.21	0	80	0	94.0%	85	103				
4-Bromochlorobenzene	80.44	0	80	0	100.6%	93	108				
Fluorobenzene	76.86	0	80	0	96.1%	88	103				

Sample ID: CCV2 BTEX_0012		Batch ID: GC-1_010129		Test Code: SW8021B		Units: µg/L		Analysis Date 1/29/2001		Prep Date:	
Client ID:		0101031		Run ID: GC-1_010129A				SeqNo: 34777			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.05	0.5	20	0	100.2%	85	115				
Ethylbenzene	20.14	0.5	20	0	100.7%	85	115				
m,p-Xylene	40.04	1	40	0	100.1%	85	115				
Methyl tert-Butyl Ether	19.1	1	20	0	95.5%	85	115				
o-Xylene	20.34	0.5	20	0	101.7%	85	115				
Toluene	20.01	0.5	20	0	100.1%	85	115				
1,4-Difluorobenzene	75.61	0	80	0	94.5%	85	103				
4-Bromochlorobenzene	79.1	0	80	0	98.9%	93	108				
Fluorobenzene	76.24	0	80	0	95.3%	88	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

CLIENT: On Site Technologies Limited
Work Order: 0101031
Project: 4-1325; Farmington B-Com-1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ					
0101024-05A	94.4	96.6	96.2					
0101024-10A	94.3	101	96.4					
0101024-12A	93.9	100	96.2					
0101024-13A	94.4	100	95.9					
0101029-01A	94.3	98.2	95.8					
0101030-01A	94.2	98.1	95					
0101031-01A	91.1	96.2	95.5					
0101031-01AMS	87.8	98.7	90.1					
0101031-01AMSD	90.3	102	93.2					
0101032-01A	94.8	100	95.9					
0101036-01A	95.3	103	96.9					
0101036-02A	93.9	100	96.8					
CCV1 BTEX_00121	94	100	96.1					
CCV2 BTEX_00121	94.5	98.9	95.3					
LCS WATER	94.5	101	95.7					
MBI	94.4	100	97.1					

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	85-103
4BCBZ	= 4-Bromochlorobenzene	93-108
FLBZ	= Fluorobenzene	88-103

* Surrogate recovery outside acceptance limits



Page: _____ of _____

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

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 1; 4-1325

Order No.: 0009018

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample 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 be "DC" or "D Cox", written in a cursive style.

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 1; 4-1325
Lab Order: 0009018

CASE NARRATIVE

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

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

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

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

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



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

ANALYTICAL REPORT

Date: 25-Sep-00

Client:	Conoco, Inc.	Client Sample Info:	Farmington B Com 1
Work Order:	0009018	Client Sample ID:	WSP-1
Lab ID:	0009018-01A	Matrix:	AQUEOUS
Project:	Farmington B Com 1; 4-1325	Collection Date:	9/11/2000 10:45:00 AM
		COC Record:	10917

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	23	2.5		µg/L	5	9/19/2000
Toluene	ND	2.5		µg/L	5	9/19/2000
Ethylbenzene	100	2.5		µg/L	5	9/19/2000
m,p-Xylene	590	5		µg/L	5	9/19/2000
o-Xylene	62	2.5		µg/L	5	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

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: 0009018
Project: Farmington B Com 1; 4-1325

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000918	Test Code: SW8021B	Units: µg/L	Analysis Date 9/18/2000	Prep Date:						
Client ID:	0009018	Run ID: GC-1_000918A		SeqNo: 31258							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND										
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0826	0.5									J

Sample ID: MB1	Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L	Analysis Date 9/19/2000	Prep Date:						
Client ID:	0009018	Run ID: GC-1_000919A		SeqNo: 31270							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND										
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

CLIENT: Conoco, Inc.
Work Order: 0009018
Project: Farmington B Com 1; 4-1325

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0009019-04AMS		Batch ID: GC-1_000918		Test Code: SW8021B		Units: µg/L		Analysis Date 9/18/2000		Prep Date:	
Client ID: 0009018		Run ID: 0009018		PQL		SPK value		SeqNo: 31259			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	437	5	400	46.21	97.7%	88	112				
Ethylbenzene	425.2	5	400	19.04	101.6%	86	113				
m,p-Xylene	1386	10	800	604.1	97.7%	85	108				
Methyl tert-Butyl Ether	430.5	10	400	0	107.6%	86	117				
o-Xylene	439.2	5	400	1.64	109.4%	92	110				
Toluene	414.6	5	400	11.6	100.8%	88	116				

Sample ID: 0009019-04AMSD		Batch ID: GC-1_000918		Test Code: SW8021B		Units: µg/L		Analysis Date 9/18/2000		Prep Date:	
Client ID: 0009018		Run ID: 0009018		PQL		SPK value		SeqNo: 31260			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	433.4	5	400	46.21	96.8%	88	112	437	0.8%	6	
Ethylbenzene	422.3	5	400	19.04	100.8%	86	113	425.2	0.7%	6	
m,p-Xylene	1380	10	800	604.1	97.0%	85	108	1386	0.4%	6	
Methyl tert-Butyl Ether	434.2	10	400	0	108.6%	86	117	430.5	0.9%	7	
o-Xylene	426.5	5	400	1.64	106.2%	92	110	439.2	2.9%	6	
Toluene	410.6	5	400	11.6	99.7%	88	116	414.6	1.0%	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

CLIENT: Conoco, Inc.
Work Order: 0009018
Project: Farmington B Com 1; 4-1325

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 0009018-01AMS		Batch ID: GC-1_000919		Test Code: SW8021B		Units: µg/L		Analysis Date 9/19/2000		Prep Date:		
Client ID: WSP-1		0009018		Run ID: GC-1_000919A				SeqNo: 31271				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		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				

Sample ID: 0009018-01AMSD		Batch ID: GC-1_000919		Test Code: SW8021B		Units: µg/L		Analysis Date 9/19/2000			Prep Date:	
Client ID: WSP-1		0009018		Run ID: GC-1_000919A				SeqNo: 31272				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		206.7	2.5	200	23	91.9%	88	112	210.6	1.8%	6	
Ethylbenzene		293.5	2.5	200	100	96.8%	86	113	297.7	1.4%	6	
m,p-Xylene		952.2	5	400	590	90.5%	85	108	965.9	1.4%	6	
Methyl tert-Butyl Ether		215.2	5	200	10	102.6%	86	117	210.1	2.4%	7	
o-Xylene		247.1	2.5	200	62	92.6%	92	110	249.5	1.0%	6	
Toluene		203.3	2.5	200	0	101.7%	88	116	205.3	1.0%	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

On Site Technologies, LTD.

Date: 25-Sep-00

CLIENT: Conoco, Inc.
Work Order: 0009018
Project: Farmington B Com 1; 4-1325

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_000918		Test Code: SW8021B		Units: µg/L		Analysis Date 9/18/2000		Prep Date:	
Client ID:		0009018		Run ID:		GC-1_000918A		SeqNo: 31257			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.98	0.5	40	0	99.9%	96	111				
Ethylbenzene	40.95	0.5	40	0	102.4%	96	111				
m,p-Xylene	80.24	1	80	0	100.3%	92	105				
Methyl tert-Butyl Ether	42.47	1	40	0	106.2%	93	113				
o-Xylene	40.15	0.5	40	0	100.4%	97	110				
Toluene	39.83	0.5	40	0.0826	99.4%	97	109				

Sample ID: LCS WATER		Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L	Analysis Date 9/19/2000		Prep Date:				
Client ID:		0009018	Run ID: GC-1_000919A		SeqNo: 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

CLIENT: Conoco, Inc.
Work Order: 0009018
Project: Farmington B Com 1; 4-1325

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0007		Batch ID: GC-1_000918	Test Code: SW8021B	Units: µg/L		Analysis Date 9/18/2000		Prep Date:			
Client ID:		0009018	Run ID:	GC-1_000918A	SeqNo: 31254						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.06	0.5	20	0	105.3%	85	115				
Ethylbenzene	21.53	0.5	20	0	107.7%	85	115				
m,p-Xylene	42.36	1	40	0	105.9%	85	115				
Methyl tert-Butyl Ether	22.51	1	20	0	112.5%	85	115				
o-Xylene	21.37	0.5	20	0	106.9%	85	115				
Toluene	20.98	0.5	20	0	104.9%	85	115				
1,4-Difluorobenzene	86.05	0	100	0	86.0%	79	101				
4-Bromochlorobenzene	91.15	0	100	0	91.2%	78	99				
Fluorobenzene	84.39	0	100	0	84.4%	76	103				

Sample ID: CCV2 BTEX_0007		Batch ID: GC-1_000918	Test Code: SW8021B	Units: µg/L		Analysis Date 9/18/2000		Prep Date:			
Client ID:		0009018	Run ID: GC-1_000918A			SeqNo: 31255					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.19	0.5	20	0	100.9%	85	115				
Ethylbenzene	20.48	0.5	20	0	102.4%	85	115				
m,p-Xylene	40.61	1	40	0	101.5%	85	115				
Methyl tert-Butyl Ether	22.19	1	20	0	111.0%	85	115				
o-Xylene	20.32	0.5	20	0	101.6%	85	115				
Toluene	20.12	0.5	20	0	100.6%	85	115				
1,4-Difluorobenzene	85.97	0	100	0	86.0%	79	101				
4-Bromochlorobenzene	89.68	0	100	0	89.7%	78	99				
Fluorobenzene	84.58	0	100	0	84.6%	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

CLIENT: Conoco, Inc.
Work Order: 0009018
Project: Farmington B Com 1; 4-1325

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0007		Batch ID: GC-1_000918	Test Code: SW8021B	Units: µg/L	Analysis Date 9/18/2000		Prep Date:				
Client ID:		0009018	Run ID: GC-1_000918A		SeqNo: 31256						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.84	0.5	40	0	97.1%	85	115				
Ethylbenzene	39.44	0.5	40	0	98.6%	85	115				
m,p-Xylene	77.84	1	80	0	97.3%	85	115				
Methyl tert-Butyl Ether	42.93	1	40	0	107.3%	85	115				
o-Xylene	38.89	0.5	40	0	97.2%	85	115				
Toluene	38.87	0.5	40	0	97.2%	85	115				
1,4-Difluorobenzene	86.1	0	100	0	86.1%	79	101				
4-Bromochlorobenzene	90	0	100	0	90.0%	78	99				
Fluorobenzene	84.12	0	100	0	84.1%	76	103				

Sample ID: CCV1 BTEX_0007		Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L		Analysis Date 9/19/2000		Prep Date:			
Client ID:		0009018	Run ID:	GC-1_000919A		SeqNo: 31267					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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				
o-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				

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: 0009018
Project: Farmington B Com 1; 4-1325

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV2 BTEX_0007 Batch ID: GC-1_000919 Test Code: SW8021B Units: µg/L Analysis Date 9/19/2000 Prep Date:
 Client ID: 0009018 Run ID: GC-1_000919A SeqNo: 31268

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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				
o-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

CLIENT: Conoco, Inc.
 Work Order: 0009018
 Project: Farmington B Com 1; 4-1325
 Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ					
0009016-03A	83.8	88	86.2					
0009017-01A	85.9	88.3	84.3					
0009018-01A	81.2	86.8	80.5					
0009018-01AMS	80.4	89	79					
0009018-01AMSD	80.4	89.8	79.6					
0009019-01A	86.3	94.2	84.8					
0009019-02A	87.3	90.9	85.5					
0009019-03A	85.8	90.1	85.6					
0009019-04A	85.6	89.6	84.4					
0009019-04AMS	84.6	91.1	83					
0009019-04AMSD	85.6	91.2	84.4					
0009020-01A	86.5	91.6	84.6					
0009020-02A	86.5	91.3	84.5					
0009020-03A	84.6	92.7	82.4					
0009021-01A	86.3	91.4	84.8					
0009021-02A	87	89.4	84.8					
0009021-03A	86.3	91	85.3					
0009021-04A	87.1	89.8	85.1					
0009021-05A	86.4	89.7	85.3					
0009021-06A	86.3	90.8	84.2					
0009021-07A	85.8	89.2	84.1					
0009024-01A	85.7	89	84.4					
0009024-02A	82.4	88.7	80.4					
0009024-03A	85	89.2	83					
0009026-01A	86.4	91.9	84.8					
0009026-02A	85.4	90.2	83.2					
0009026-03A	87.5	88.3	85.2					

Acronym

Surrogate

QC Limits

14FBZ

= 1,4-Difluorobenzene

79-101

4BCBZ

= 4-Bromochlorobenzene

78-99

FLBZ

= Fluorobenzene

76-103

* Surrogate recovery outside acceptance limits

CLIENT: Conoco, Inc.
Work Order: 0009018
Project: Farmington B Com 1; 4-1325
Test No: SW8021B

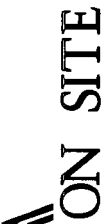
QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ					
CCV1 BTEX_00070	86.1	91.4	84.1					
CCV2 BTEX_00070	86.4	87.5	84					
CCV3 BTEX_00070	86.1	90	84.1					
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:

[illegible]

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: 4-1325; Farmington B-Com 1

Order No.: 0006010

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample 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', is written over a horizontal line.

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: 4-1325; Farmington B-Com 1
Lab Order: 0006010

CASE NARRATIVE

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

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

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

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

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



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

ANALYTICAL REPORT

Date: 13-Jun-00

Client:	On Site Technologies Limited	Client Sample Info:	Farmington B-Com 1
Work Order:	0006010	Client Sample ID:	WSP-1
Lab ID:	0006010-01A	Matrix:	AQUEOUS
Project:	4-1325; Farmington B-Com 1	Collection Date:	6/5/2000 10:35:00 AM
		COC Record:	10728

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	30	2.5		µg/L	5	6/9/2000
Toluene	7.6	2.5		µg/L	5	6/9/2000
Ethylbenzene	65	2.5		µg/L	5	6/9/2000
m,p-Xylene	350	5		µg/L	5	6/9/2000
o-Xylene	49	2.5		µg/L	5	6/9/2000

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: 13-Jun-00

CLIENT: On Site Technologies Limited
Work Order: 0006010
Project: 4-1325; Farmington B-Com 1

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:	0006010	Run ID: GC-1_000609A		SeqNo: 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									
Methyl tert-Butyl Ether	ND	1									
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:	0006010	Run ID: GC-1_000609A		SeqNo: 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
m,p-Xylene	ND	1									
o-Xylene	ND	0.5									
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: 0006010
 Project: 4-1325; Farmington B-Com 1

Date: 13-Jun-00

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0006005-11AMS		Batch ID: GC-1_000609	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/9/2000		Prep Date:	
Client ID: 0006010		Run ID: GC-1_000609A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
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: 0006010		Run ID: GC-1_000609A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
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.

Date: 13-Jun-00

CLIENT: On Site Technologies Limited
Work Order: 0006010
Project: 4-1325; Farmington B-Com 1

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:		0006010		Run ID:		GC-1_000609A		SeqNo:		28418			
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:		0006010	Run ID:	GC-1_000609A		SeqNo: 28419					
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
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: 0006010
Project: 4-1325; Farmington B-Com 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0004		Batch ID: GC-1_000609	Test Code: SW8021B	Units: µg/L		Analysis Date: 6/9/2000		Prep Date:			
Client ID:		0006010	Run ID:	GC-1_000609A		SeqNo: 28414					
Analyte	Result	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				

Sample ID: CCV1 BTEX_0004		Batch ID: GC-1_000609	Test Code: SW8021B	Units: µg/L		Analysis Date: 6/9/2000			Prep Date:		
Client ID:		0006010	Run ID:	GC-1_000609A		SeqNo: 28415					
Analyte	Result	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
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0006010
Project: 4-1325; Farmington B-Com 1

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: 0006010		Run ID: GC-1_000609A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result						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: 0006010		Run ID: GC-1_000609A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result						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: 0006010
 Project: 4-1325; Farmington B-Com 1
 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					
MB1	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



LAB: (505) 325-1556

March 17, 2000

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

RE: 4-1325; Farmington B-Com-1

Order No.: 0003019

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 3/13/2000 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (SW8021B)

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

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

Sincerely,

A handwritten signature in black ink, appearing to be "David Cox", written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 17-Mar-00

CLIENT: Conoco, Inc.
Project: 4-1325; Farmington B-Com-1
Lab Order: 0003019

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-Mar-00

Client:	Conoco, Inc.	Client Sample Info:	Farmington B-Com-1
Work Order:	0003019	Client Sample ID:	WSP-1
Lab ID:	0003019-01A	Matrix:	AQUEOUS
Project:	4-1325; Farmington B-Com-1	Collection Date:	3/13/2000 1:00:00 PM
		COC Record:	10572

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	44	2.5		µg/L	5	3/14/2000
Toluene	ND	2.5		µg/L	5	3/14/2000
Ethylbenzene	140	2.5		µg/L	5	3/14/2000
m,p-Xylene	800	5		µg/L	5	3/14/2000
o-Xylene	110	2.5		µg/L	5	3/14/2000

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: 17-Mar-00

CLIENT: Conoco, Inc.

Work Order: 0003019

Project: 4-1325; Farmington B-Com-1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000314	Test Code: SW8021B	Units: µg/L	Analysis Date 3/14/2000	Prep Date:						
Client ID:	0003019	Run ID: GC-1_000314A		SeqNo: 25646							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0396	0.5									J
Ethylbenzene	.065	0.5									J
m,p-Xylene	.1824	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.1453	0.5									J
Toluene	.2372	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-Mar-00

CLIENT: Conoco, Inc.
Work Order: 0003019
Project: 4-1325; Farmington B-Com-1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0003019-01AMS		Batch ID: GC-1_000314		Test Code: SW8021B		Units: µg/L		Analysis Date 3/14/2000		Prep Date:	
Client ID: WSP-1		0003019		Run ID: GC-1_000314A				SeqNo: 25647			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	235.3	2.5	200	44	95.7%	73	126				
Ethylbenzene	333.9	2.5	200	140	96.9%	88	113				
m,p-Xylene	1218	5	400	800	104.6%	83	112				
Methyl tert-Butyl Ether	205.3	5	200	16	94.6%	81	125				
o-Xylene	310.7	2.5	200	110	100.3%	93	110				
Toluene	208.1	2.5	200	0	104.0%	76	126				

Sample ID: 0003019-01AMSD		Batch ID: GC-1_000314		Test Code: SW8021B		Units: µg/L		Analysis Date 3/14/2000		Prep Date:	
Client ID: WSP-1		0003019		Run ID: GC-1_000314A				SeqNo: 25648			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	224.8	2.5	200	44	90.4%	73	126	235.3	4.6%	6	
Ethylbenzene	320.1	2.5	200	140	90.1%	88	113	333.9	4.2%	5	
m,p-Xylene	1168	5	400	800	92.1%	83	112	1218	4.2%	7	
Methyl tert-Butyl Ether	200.2	5	200	16	92.1%	81	125	205.3	2.5%	9	
o-Xylene	302	2.5	200	110	96.0%	93	110	310.7	2.8%	6	
Toluene	200.2	2.5	200	0	100.1%	76	126	208.1	3.9%	6	

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 17-Mar-00

CLIENT: Conoco, Inc.
Work Order: 0003019
Project: 4-1325; Farmington B-Com-1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_000314	Test Code: SW8021B	Units: µg/L	Analysis Date 3/14/2000		Prep Date:				
Client ID:		0003019	Run ID: GC-1_000314A		SeqNo: 25645						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.31	0.5	40	0.0396	95.7%	89	112				
Ethylbenzene	39.42	0.5	40	0.065	98.4%	93	112				
m,p-Xylene	74.86	1	80	0.1824	93.3%	88	108				
Methyl tert-Butyl Ether	38.63	1	40	0	96.6%	87	115				
o-Xylene	39.41	0.5	40	0.1453	98.2%	93	112				
Toluene	39.19	0.5	40	0.2372	97.4%	92	111				

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-Mar-00

CLIENT: Conoco, Inc.

Work Order: 0003019

Project: 4-1325; Farmington B-Com-1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0001		Batch ID: GC-1_000314	Test Code: SW8021B	Units: µg/L		Analysis Date 3/14/2000		Prep Date:	
Client ID:		Run ID: 0003019	PQL	SPK value	SPK Ref Val	SeqNo: 25642	HighLimit	RPD Ref Val	%RPD
Analyte	Result								
Benzene	20.67		0.5	20	0		85	115	
Ethylbenzene	21.4		0.5	20	0		85	115	
m,p-Xylene	40.35		1	40	0		85	115	
Methyl tert-Butyl Ether	20.84		1	20	0		85	115	
o-Xylene	21.37		0.5	20	0		85	115	
Toluene	21.11		0.5	20	0		85	115	
1,4-Difluorobenzene	89.09		0	100	0		80	105	
4-Bromochlorobenzene	89.47		0	100	0		78	108	
Fluorobenzene	86.62		0	100	0		78	108	

Sample ID: CCV2 BTEX_0001		Batch ID: GC-1_000314	Test Code: SW8021B	Units: µg/L		Analysis Date 3/14/2000		Prep Date:	
Client ID:		Run ID: 0003019	PQL	SPK value	SPK Ref Val	SeqNo: 25643	HighLimit	RPD Ref Val	%RPD
Analyte	Result								
Benzene	19.59		0.5	20	0		85	115	
Ethylbenzene	20.23		0.5	20	0		85	115	
m,p-Xylene	38.08		1	40	0		85	115	
Methyl tert-Butyl Ether	20.17		1	20	0		85	115	
o-Xylene	20.22		0.5	20	0		85	115	
Toluene	19.94		0.5	20	0		85	115	
1,4-Difluorobenzene	88.71		0	100	0		80	105	
4-Bromochlorobenzene	90.52		0	100	0		78	108	
Fluorobenzene	86.87		0	100	0		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

CLIENT: Conoco, Inc.
Work Order: 0003019
Project: 4-1325; Farmington B-Com-1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0001		Batch ID: GC-1_000314	Test Code: SW8021B	Units: µg/L	Analysis Date 3/14/2000		Prep Date:					
Client ID: 0003019		Run ID: GC-1_000314A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	38.76		0.5	40	0	96.9%	85	115				
Ethylbenzene	39.61		0.5	40	0	99.0%	85	115				
m,p-Xylene	74.89		1	80	0	93.6%	85	115				
Methyl tert-Butyl Ether	38.99		1	40	0	97.5%	85	115				
o-Xylene	39.58		0.5	40	0	99.0%	85	115				
Toluene	39.39		0.5	40	0	98.5%	85	115				
1,4-Difluorobenzene	88.62		0	100	0	88.6%	80	105				
4-Bromochlorobenzene	89.92		0	100	0	89.9%	78	108				
Fluorobenzene	86.49		0	100	0	86.5%	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: 17-Mar-00

CLIENT: Conoco, Inc.
Work Order: 0003019
Project: 4-1325; Farmington B-Com-1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ					
0003009-01A	89.8	90.3	87.4					
0003009-02A	85.6	83.5	87.2					
0003009-03A	90.1	89.4	87.6					
0003009-04A	89.6	91.4	87.6					
0003009-05A	89.9	90	87.5					
0003009-06A	89.4	90.4	87.9					
0003010-01A	89.4	90.2	87.2					
0003010-02A	89.3	90.3	87.4					
0003010-03A	89.2	89.8	87.4					
0003012-03A	90.1	89.9	87.3					
0003012-04A	88.8	88.6	87.3					
0003012-05A	86.8	89	85.4					
0003012-06A	87	88.9	85.4					
0003013-07A	89.8	90	87					
0003016-01A	88.1	89.9	86.8					
0003017-01A	90.2	91.1	87.3					
0003018-01A	86.6	88.6	84.2					
0003019-01A	90.2	90.6	91.5					
0003019-01AMS	85.9	88.6	88.4					
0003019-01AMSD	86.2	89.7	88.7					
0003020-01A	86.9	87.8	84.9					
CCV1 BTEX_00010	89.1	89.5	86.6					
CCV2 BTEX_00010	88.7	90.5	86.9					
CCV3 BTEX_00010	88.6	89.9	86.5					
LCS WATER	88.1	90.2	85.8					
MB1	89.2	89.6	87					

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

* Surrogate recovery outside acceptance limits



Page:

Purchase Order No.:

**SEND
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TO**

Name .

CI

Company

Address

City. State. Zip

PROJECT LOCATION:

SAMPLER'S SIGNATURE:

SAMPLE IDENTIFICATION

SAMPLE			
DATE	TIME	MATRIX	PRES.

ABD

ANALYSIS REQUESTED

Number of Containers

Relinquished by:

Relinquished by:

Relinquished by:

Method of Shipment:

Rush	24-48 Hours
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10 Working Days

By Date

Date _____

Authorized by:

Date _____

(Client Signature Must Accompany Request)

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

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