

3R - 85

REPORTS

DATE:

2/18/2002



February 18, 2002

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

RE: 2001 Annual Ground Water Report
Conoco Location: Farmington C Com 1
Unit L, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM

Project No.: 4-1373

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. *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 2001 ACTIVITIES:

Ground water sampling was conducted during June, September, and December of 2001. Water levels were measured in each ground water monitoring well and the piezometer. Ground water samples were taken from MW#1 for laboratory analysis.

MW-1 was broken off below ground level and was replaced with MW-1R on August 7, 2001, a backhoe was used to install the replacement well. See On Site letter dated 6/20/01. A new survey was completed on February 16, 2002. For continuity the new survey was used for top of casing elevations to create the ground water piezometric maps for the three sampling events. While conducting the new survey, damage to the casing of MW-3 was noted. The damaged casing was repaired. New locks were installed on all monitoring wells.

Laboratory analysis indicates that the BTEX levels have dropped. The last three sampling events show BTEX levels at or below New Mexico Water Quality Commission (NMWQCC) levels. Ground water levels during the last three sampling events have fluctuated and may be influencing the levels of contamination reported.

SAMPLING:

Following the approved monitoring plan, during each sampling event, water levels were measured on all monitoring wells prior to purging and sampling. Samples were collected in laboratory supplied containers, preserved as needed, and proper chain-of-custody protocol followed. Laboratory analyses ordered followed the monitoring plan.

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

Copies of all laboratory reports for the calendar year 2001, along with all laboratory QA/QC documentation and chain-of-custody, are attached with this report.

PO Box 2606
Farmington, NM 87499

505-325-5667

FAX: 505-327-1496

SUMMARY AND CONCLUSIONS:

The following conclusions are based on the 2001 ground water monitoring results and trends associated with a former production pit at the Farmington C Com #1 well location:

1. MW-1 BTEX levels have dropped below New Mexico Water Quality Control Commission (NMWQCC) standards for the last three sampling events.
2. Historically, BTEX contamination of ground water appears to fluctuate with the level of ground water.

RECOMMENDATIONS:

1. Ground water monitoring to continue for MW#1, in accordance with Conoco's Comprehensive Ground Water Remediation and Long-Term Monitoring Plan.
2. Once groundwater sampling indicates contamination is below the NMWQC water quality standards, all monitoring wells will be sampled to assess overall status of groundwater quality at the site.

LIMITATIONS AND CLOSURE:

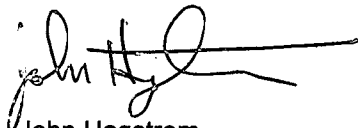
This annual ground water report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 2001. This report follows the monitoring plan, dated October 15, 1997.

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.

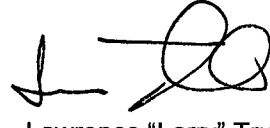
This document has been prepared by On Site Technologies for the exclusive use of Conoco Inc. as it pertains to the referenced well location operated by Conoco.

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

Respectfully submitted,


John Hagstrom
Environmental Technician

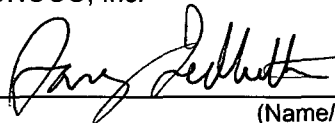
Reviewed by;


Lawrence "Larry" Trujillo, CHMM
Environmental Specialist

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
Figures 2, 3, and 4: Ground Water Potentiometric Map
Soil Boring Log MW-1R
Laboratory results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.

 SHEAR Specialist
(Name/Title)
2/27/02
(Date)

JPH/jph: 41374-01.doc

REFERENCES:

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.

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.

On Site Technologies, Ltd., January 5, 1999: 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

Table 1

BGS - approximate measurements taken as Below Ground Surface
 BTOC - Below Top of Casing
 NM - Not Measured
 Re Survey 2/16/02

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BGS - approximate measurements taken as Below Ground Surface
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Table 1

BGS - approximate measurements taken as Below Ground Surface
 BTOC - Below Top of Casing
 NM - Not Measured
 Re Survey 2/16/02

Table 1

BGS - approximate measurements taken as Below Ground Surface
BTCC - Below Top of Casing
NM - Not Measured
Re Survey 2/16/02

Table 1

BGS - approximate measurements taken as Below Ground Surface
 BTOC - Below Top of Casing
 NM - Not Measured
 Re Survey 2/16/02

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	150.0	25.0
6/11/98	9806041-01A			51.0	0.7	25.0	1.4
9/18/98	9809051-02A			74.0	BDL	13.0	86
12/21/98	9812047-01A			76.0	BDL	78.0	120.0
3/2/99	990310-01A			92.0	1.2	82.0	30.0
6/16/99	9906060-01A			110.0	1.6	110.0	2.7
9/14/99	9909046-01A			41.0	1.1	BDL	20.4
12/14/99	9912017-01A			46.0	1.3	70.0	51.5
3/13/00	0003020-01A			64.0	1.4	94.0	81.0
6/5/00	0006008-01A			BDL	BDL	BDL	24.0
9/11/00			No Measurable	Water			
01/23/01	0101030-01A			93.0	1.2	92.0	121.1
3/20/01	0103019-01A			110	1.2	20.0	140.0
8/10/01	0108011-01A	#1R		1.2	BDL	1.6	2.0
9/18/01	0109019-01A			10.0	BDL	3.7	4.3
12/13/01	0112013-01A			1.8	BDL	1.4	1.6
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			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
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

Table 2

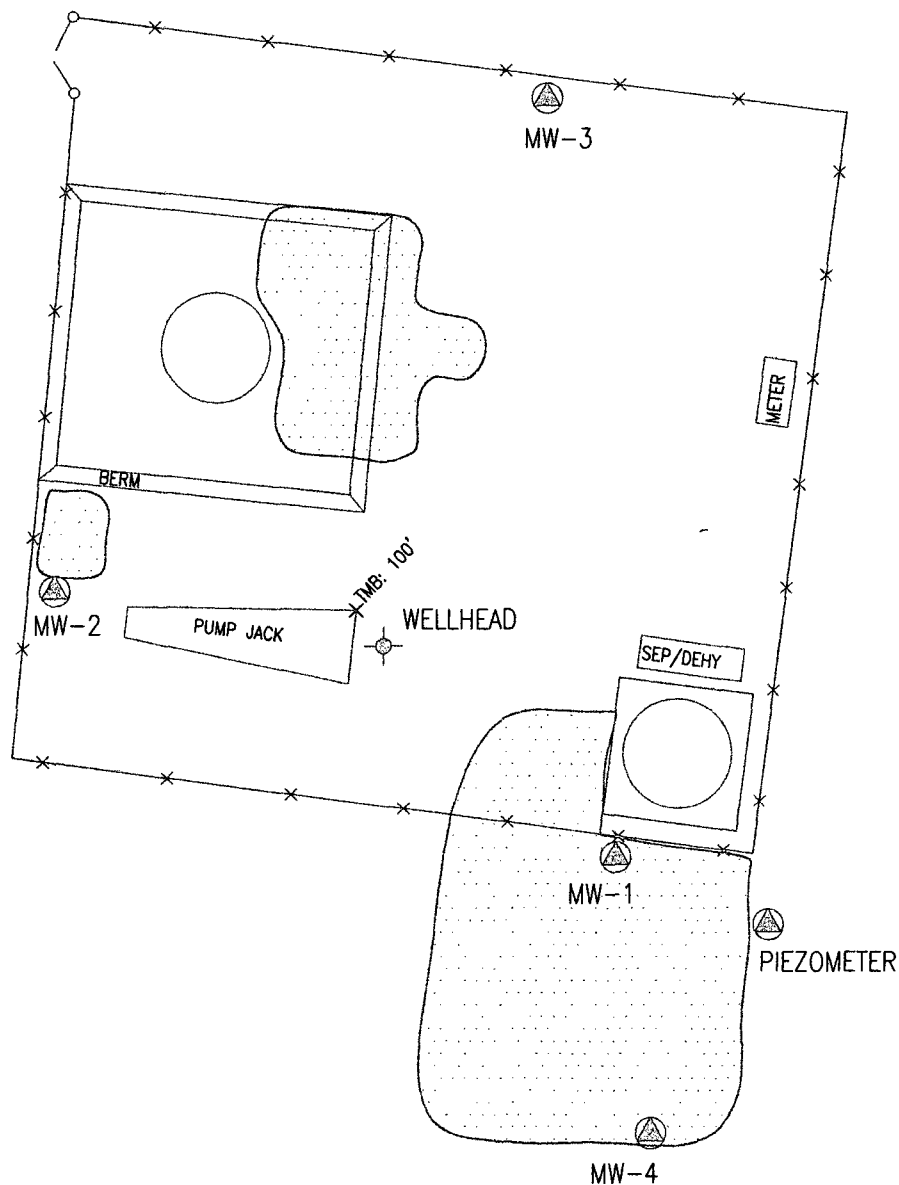
BTEX Analytical Summary

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
12/5/97	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		Piezometer	On Site Lab.	BDL	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

BDL Below Detection Levels



LEGEND

- x — FENCE
- SPILL EXTENTS (APPROXIMATE)

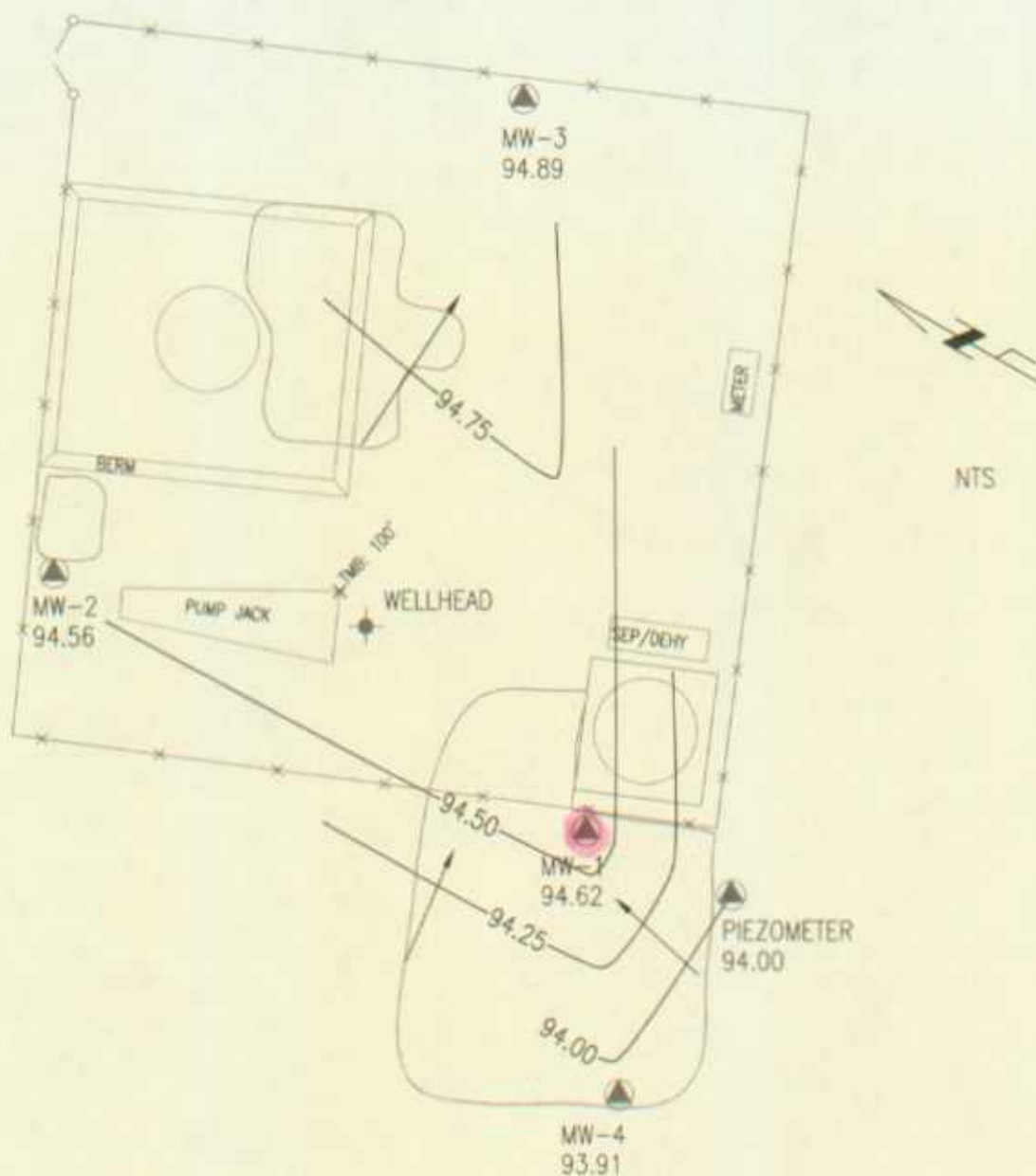


612 E. MURRAY DR. PH. (505) 326-5667
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED: <i>Jet</i>	DATE: 2/21/02
DRWN BY: MED	DATE: 2/20/02
CHK'D BY: <i>JPH</i>	DATE: 2/20/02
PROJECT NO: 4-1373	SHEET: 1 OF 5

SITE SKETCH

FARMINGTON "C" COM #1
UNIT 1, SEC. 15, T29N, R13W, NMPM
SAN JUAN BASIN, NEW MEXICO



LEGEND

93.00 — GROUND WATER CONTOUR (0.25' INTERVALS)

— GRADIENT

— FENCE

○ SPILL EXTENTS (APPROXIMATE)



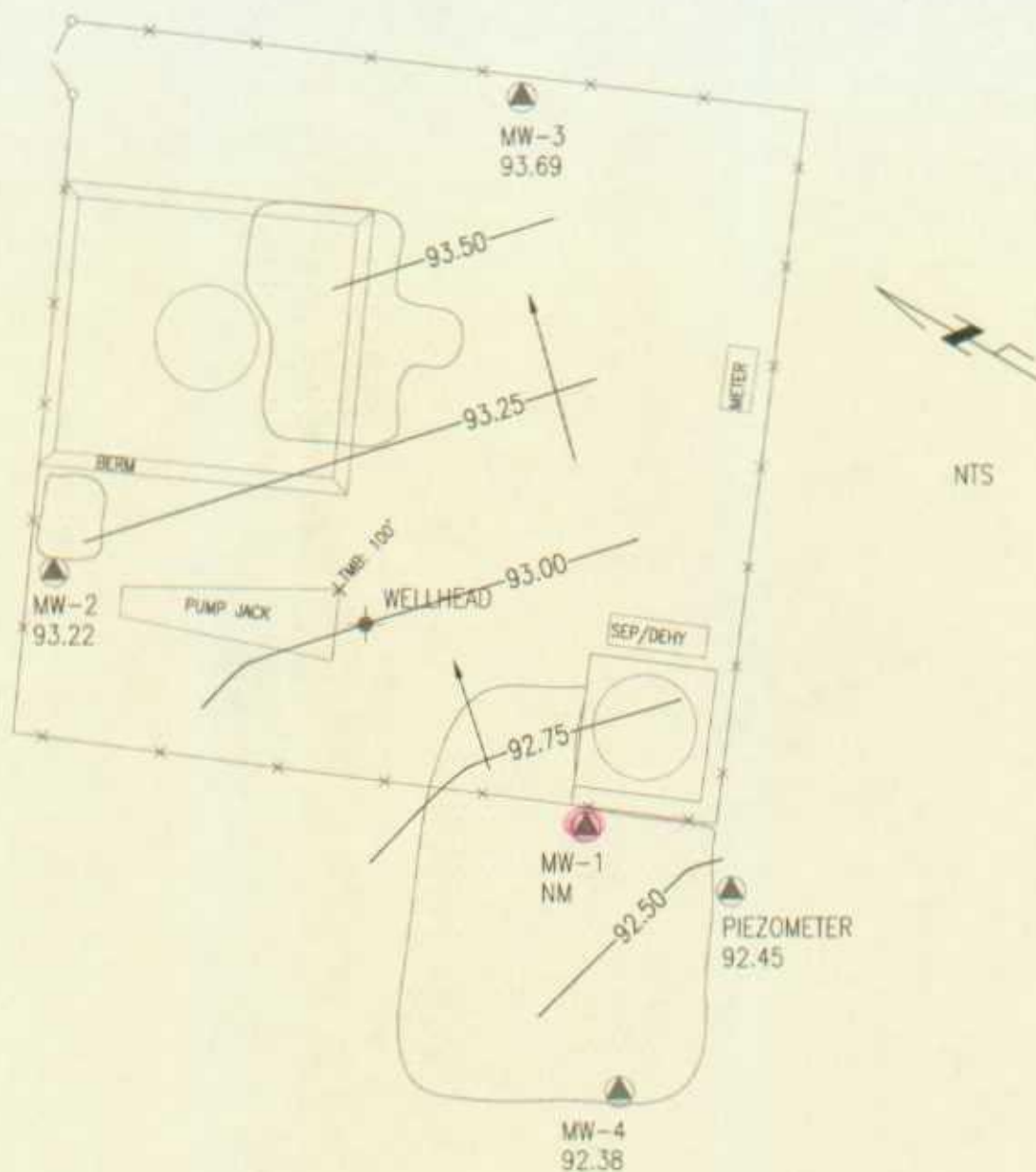
612 E. MURRAY DR. PH. (505) 325-5007
FARMINGTON, NM 87401 FAX (505) 327-1498

APPROVED: <i>[Signature]</i>	DATE: 2/21/02
DRWN BY: MED	DATE: 2/20/02
CHK'D BY: <i>[Signature]</i>	DATE: 2/20/02
PROJECT NO: 4-1373	SHEET: 2 OF 5

GROUND WATER POTENTIOMETRIC MAP
MARCH 20, 2001

FARMINGTON "C" COM #1
UNIT L, SEC. 16, T29N, R13W, NMPM
SAN JUAN BASIN, NEW MEXICO

c:\ddr\2-1373\01 dwg_march



LEGEND

93.00 — GROUND WATER CONTOUR (0.25' INTERVALS)

— GRADIENT

NM NOT MEASURED

— FENCE

○ SPILL EXTENTS (APPROXIMATE)



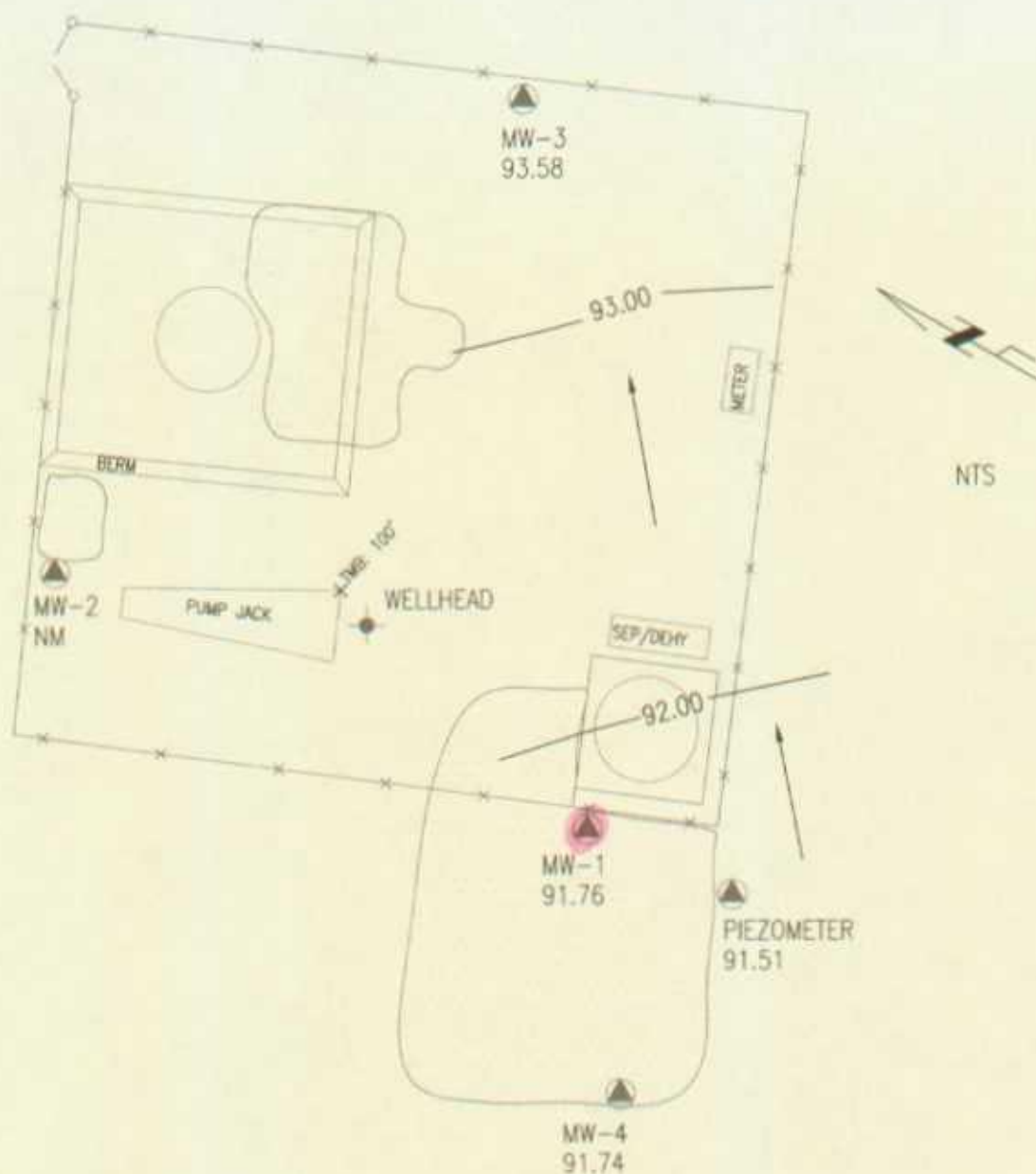
610 E. MURRAY DR. PH. (505) 325-5667
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED: <i>JET</i>	DATE: 2/21/02
DRAWN BY: MED	DATE: 2/20/02
CHK'D BY: <i>JPH</i>	DATE: 2/20/02
PROJECT NO: 4-1373	SHEET: 3 OF 5

GROUND WATER POTENTIOMETRIC MAP
JUNE 14, 2001

FARMINGTON "C" COM #1
UNIT 1, SEC. 15, T29N, R13W, NMPM
SAN JUAN BASIN, NEW MEXICO

c:\0502\2-1373\at.dwg-june



LEGEND

93.00 — GROUND WATER CONTOUR (0.25' INTERVALS)

— GRADIENT

NM NOT MEASURED

— x — FENCE

○ SPILL EXTENTS (APPROXIMATE)



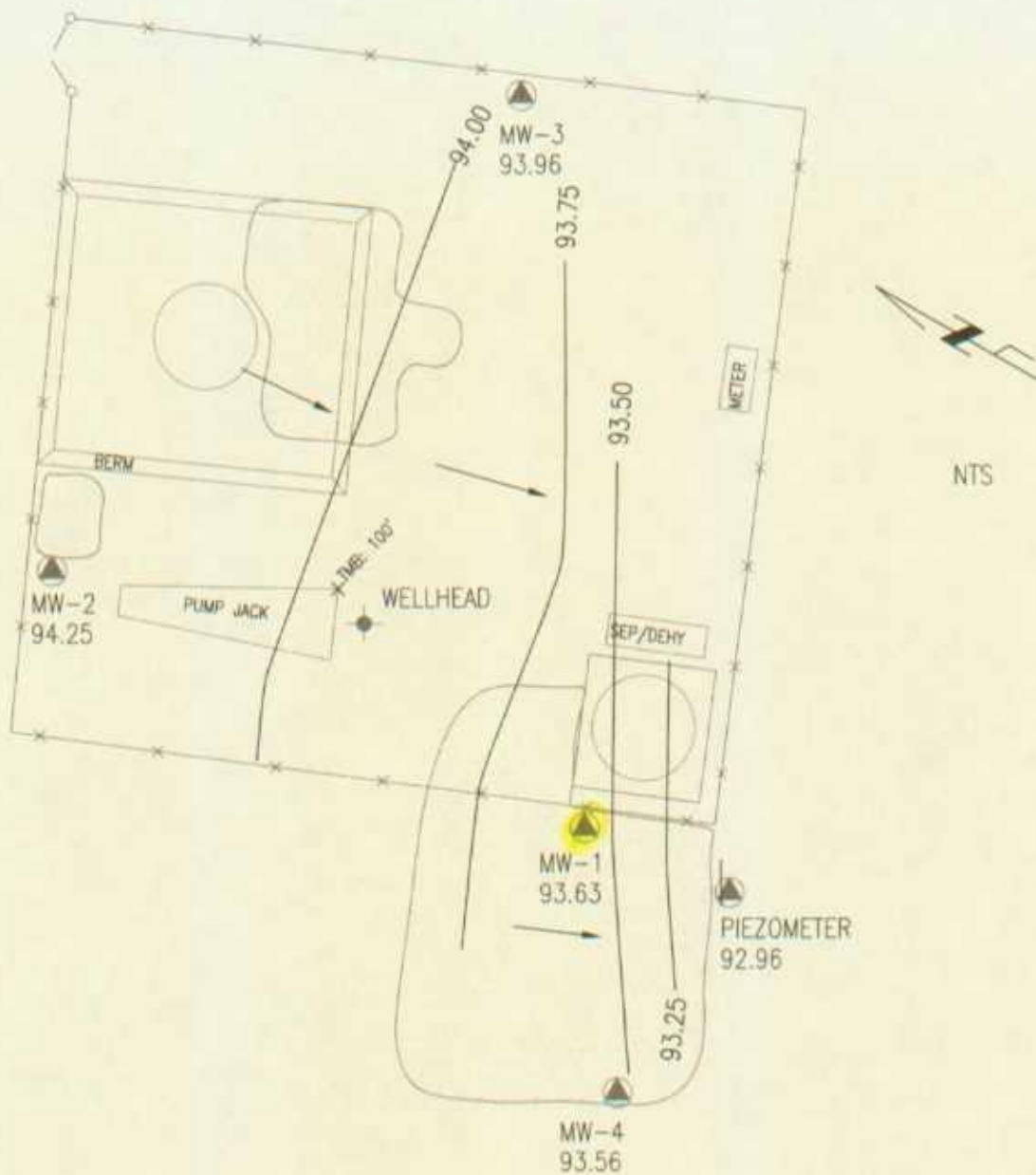
812 E. MURRAY DR. PH. (505) 325-5667
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED: <i>JET</i>	DATE: 2/20/02
DRAWN BY: MED	DATE: 2/20/02
CHK'D BY: <i>Hof</i>	DATE: 2/20/02
PROJECT NO: 4-1373	SHEET: 4 OF 5

GROUND WATER POTENTIOMETRIC MAP
SEPTEMBER 18, 2001

FARMINGTON "C" COM #1
UNIT 1, SEC. 15, T29N, R13W, NMPM
SAN JUAN BASIN, NEW MEXICO

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LEGEND

93.00 — GROUND WATER CONTOUR (0.25' INTERVALS)

— GRADIENT

— FENCE

○ SPILL EXTENTS (APPROXIMATE)



612 E. MURRAY DR. PH. (505) 325-5667
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED: *SE7*

DRWN BY: MED

CHK'D BY: *g+h*

PROJECT NO: 4-1373

DATE: *2/21/02*

DATE: 2/20/02

DATE: *2/21/02*

SHEET: 5 OF 5

GROUND WATER POTENTIOMETRIC MAP
DECEMBER 13, 2001

FARMINGTON "C" COM #1
UNIT 1, SEC. 15, T29N, R13W, NMPM
SAN JUAN BASIN, NEW MEXICO

c:/ddr2/4-1373/01.dwg_dec

Conoco Inc.
Melba St.
Farmington, NM 87401

Date Completed : 8/7/01
Drilling Method : Backhoe
Driller : L&R Oilfield Services
Sampling Method : NA
Company Rep. :

Logged By : John Hagsstrom
Project Number : 4-1373
Bore Hole Size : NA
Blank Casing : 2" Sch 40 PVC
Screen : 2" Sch 40 PVC 0.010 "

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	PID ppm	Moisture W/o	MTBE ppm	GRO ppm	BTEX ppm	Well: MW-1R Elev.: 100.52
0		SW		Sand, yellowish brown, medium grained, dry						
				Stained Soils Silty Sand						
5		SM								
				Well Rounded Cobble 4-12" Ground Water Encountered						
				Cobble covered with Hydrocarbons Heavily Stained Soils						
10		GW								
				Cobble covered with Hydrocarbons Heavily Stained Soils						
15										
20										



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



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

March 23, 2001

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

RE: 4-1373; Farmington C Com #1

Order No.: 0103019

Dear John Hagstrom,

On Site Technologies, LTD. received 1 sample on 3/20/2001 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

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



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

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: On Site Technologies Limited
Project: 4-1373; Farmington C Com #1
Lab Order: 0103019

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: 23-Mar-01

Client:	On Site Technologies Limited	Client Sample Info:	Farmington C Com #1
Work Order:	0103019	Client Sample ID:	MW 1
Lab ID:	0103019-01A	Matrix:	AQUEOUS
Project:	4-1373; Farmington C Com #1	Collection Date:	3/20/2001 12:00:00 PM
		COC Record:	11143

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	110	0.5		µg/L	1	3/21/2001
Toluene	1.2	0.5		µg/L	1	3/21/2001
Ethylbenzene	20	0.5		µg/L	1	3/21/2001
m,p-Xylene	140	1		µg/L	1	3/21/2001
o-Xylene	ND	0.5		µg/L	1	3/21/2001

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

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: On Site Technologies Limited
 Work Order: 0103019
 Project: 4-1373; Farmington C Com #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L	Analysis Date 3/21/2001		Prep Date:					
Client ID:	0103019	Run ID: GC-1_010321A		SeqNo: 35873							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									J
Ethylbenzene	.0794	0.5									J
m,p-Xylene	.5522	1									J
Methyl tert-Butyl Ether	ND	1									J
o-Xylene	.1977	0.5									J
Toluene	.154	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: 23-Mar-01

CLIENT: On Site Technologies Limited

Work Order: 0103019

Project: 4-1373; Farmington C Com #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0103008-01AMS		Batch ID: GC-1_010321		Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID: 0103019		Run ID: GC-1_010321A		SeqNo: 35874							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1070	5	400	710	90.1%	84	111				
Ethylbenzene	733.1	5	400	320	103.3%	84	111				
m,p-Xylene	1386	10	800	560	103.2%	84	108				
Methyl tert-Butyl Ether	444.8	10	400	110	83.7%	80	117				
o-Xylene	517.8	5	400	110	102.0%	89	107				
Toluene	468.4	5	400	54	103.6%	90	107				

Sample ID: 0103008-01AMSD		Batch ID: GC-1_010321		Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID: 0103019		Run ID: GC-1_010321A		SeqNo: 35875							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1064	5	400	710	88.6%	84	111	1070	0.6%	8	
Ethylbenzene	709.4	5	400	320	97.3%	84	111	733.1	3.3%	7	
m,p-Xylene	1343	10	800	560	97.9%	84	108	1386	3.1%	7	
Methyl tert-Butyl Ether	449.2	10	400	110	84.8%	80	117	444.8	1.0%	6	
o-Xylene	502.9	5	400	110	98.2%	89	107	517.8	2.9%	6	
Toluene	449.4	5	400	54	98.8%	90	107	468.4	4.2%	6	

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: 23-Mar-01

CLIENT: On Site Technologies Limited
Work Order: 0103019
Project: 4-1373; Farmington C Com #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010321		Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID:		0103019		Run ID: GC-1_010321A				SeqNo: 35872			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.67	0.5	40	0	99.2%	92	109				
Ethylbenzene	41.4	0.5	40	0.0794	103.3%	92	112				
m,p-Xylene	82.98	1	80	0.5522	103.0%	91	108				
Methyl tert-Butyl Ether	40.98	1	40	0	102.4%	89	116				
o-Xylene	41.51	0.5	40	0.1977	103.3%	93	109				
Toluene	40.7	0.5	40	0.154	101.4%	93	108				

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: 23-Mar-01

CLIENT: On Site Technologies Limited
Work Order: 0103019
Project: 4-1373; Farmington C Com #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0103		Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L	Analysis Date 3/21/2001		Prep Date:				
Client ID:		0103019	Run ID: GC-1_010321A		SeqNo: 35869						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.15	0.5	20	0	100.7%	85	115				
Ethylbenzene	21.03	0.5	20	0	105.2%	85	115				
m,p-Xylene	42.36	1	40	0	105.9%	85	115				
Methyl tert-Butyl Ether	19.21	1	20	0	96.1%	85	115				
o-Xylene	21.15	0.5	20	0	105.8%	85	115				
Toluene	20.66	0.5	20	0	103.3%	85	115				
1,4-Difluorobenzene	78.38	0	80	0	98.0%	85	103				
4-Bromochlorobenzene	77.29	0	80	0	96.6%	93	108				
Fluorobenzene	78.25	0	80	0	97.8%	88	103				

Sample ID: CCV2 BTEX_0103		Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L		Analysis Date 3/21/2001		Prep Date:		
Client ID:		0103019	Run ID:	GC-1_010321A		SeqNo:	35870			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit	Qual
Benzene	19.36	0.5	20	0	96.8%	85	115			
Ethylbenzene	20.17	0.5	20	0	100.8%	85	115			
m,p-Xylene	40.64	1	40	0	101.6%	85	115			
Methyl tert-Butyl Ether	17.97	1	20	0	89.8%	85	115			
o-Xylene	20.4	0.5	20	0	102.0%	85	115			
Toluene	19.89	0.5	20	0	99.5%	85	115			
1,4-Difluorobenzene	78.33	0	80	0	97.9%	85	103			
4-Bromochlorobenzene	76.34	0	80	0	95.4%	93	108			
Fluorobenzene	78.14	0	80	0	97.7%	88	103			

Qualifiers: NID - 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: 0103019
Project: 4-1373; Farmington C Com #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0103 Batch ID: GC-1_010321 Test Code: SW8021B Units: µg/L Analysis Date 3/21/2001 Prep Date:
 Client ID: 0103019 Run ID: GC-1_010321A SeqNo: 35871

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.51	0.5	40	0	96.3%	85	115				
Ethylbenzene	39.82	0.5	40	0	99.5%	85	115				
m,p-Xylene	79.8	1	80	0	99.7%	85	115				
Methyl tert-Butyl Ether	38.07	1	40	0	95.2%	85	115				
o-Xylene	40.31	0.5	40	0	100.8%	85	115				
Toluene	39.43	0.5	40	0	98.6%	85	115				
1,4-Difluorobenzene	78.66	0	80	0	98.3%	85	103				
4-Bromochlorobenzene	75.38	0	80	0	94.2%	93	108				
Fluorobenzene	77.44	0	80	0	96.8%	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: 0103019
Project: 4-1373; Farmington C Com #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ					
0103008-01A	95.3	96.8	95.2					
0103008-01AMS	95.3	99.7	95					
0103008-01AMSD	95.4	97.3	94.6					
0103011-01A	97.9	99.2	96.6					
0103015-01A	88.2	87.7 *	95.6					
0103015-02A	98.5	97.7	98.5					
0103017-01A	93.4	92.3 *	94					
0103018-01A	96.7	95.6	95.8					
0103019-01A	99.2	97.3	98.2					
0103020-01A	96.4	91.7 *	96.4					
0103020-02A	94.7	93.7	93.8					
0103020-03A	98.9	96.6	97.8					
0103021-01A	99	98.4	97.9					
0103022-01A	99.3	97.7	98					
0103022-02A	98.4	95.8	97.8					
0103022-03A	96.1	93.4	99.2					
0103023-06A	107 *	96.2	101					
0103028-01A	98.3	95.6	98.8					
CCV1 BTEX_01030	98	96.6	97.8					
CCV2 BTEX_01030	97.9	95.4	97.7					
CCV3 BTEX_01030	98.3	94.2	96.8					
LCS WATER	97.3	97.4	97					
MBI	98.7	96.7	98.3					

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		Company		Company							
Address		Dept.		Mailing Address							
City, State, Zip				City, State, Zip							
PROJECT LOCATION:				Telephone No.		Telefax No.					
SAMPLER'S SIGNATURE:				ANALYSIS REQUESTED							
SAMPLE IDENTIFICATION		SAMPLE									
DATE	TIME	MATRIX	PRES.								
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME					
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME					
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME					
METHOD OF SHIPMENT:				RUSH		24-48 HOURS		10 WORKING DAYS		BY DATE	
AUTHORIZED BY:		DATE		SPECIAL INSTRUCTIONS / REMARKS:							



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LAB: (505) 325-5667 • FAX: (505) 327-1496

Page: _____ of _____

(Client Signature Must Accompany Request)

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



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

September 24, 2001

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

RE: 4-1373; Conoco C Com #1

Order No.: 0109019

Dear John Hagstrom,

On Site Technologies, LTD. received 1 sample on 9/18/2001 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 'DC' or 'D Cox', written in a cursive style.

David Cox

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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



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

On Site Technologies, LTD.

Date: 24-Sep-01

CLIENT: On Site Technologies Limited
Project: 4-1373; Conoco C Com #1
Lab Order: 0109019

CASE NARRATIVE

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

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

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

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

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

ANALYTICAL REPORT

Date: 24-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Conoco C Com #1
Work Order:	0109019	Client Sample ID:	MW 1
Lab ID:	0109019-01A	Matrix:	AQUEOUS
Project:	4-1373; Conoco C Com #1	Collection Date:	9/18/2001 10:55:00 AM
		COC Record:	11520

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	10	0.5		µg/L	1	9/19/2001
Toluene	ND	0.5		µg/L	1	9/19/2001
Ethylbenzene	3.7	0.5		µg/L	1	9/19/2001
m,p-Xylene	4.3	1		µg/L	1	9/19/2001
o-Xylene	ND	0.5		µg/L	1	9/19/2001

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

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EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 24-Sep-01

CLIENT: On Site Technologies Limited
Work Order: 0109019
Project: 4-1373; Conoco C Com #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010919	Test Code: SW8021B	Units: µg/L	Analysis Date: 9/19/2001	Prep Date:
Client ID:	0109019	Run ID: GC-1_010919A		SeqNo: 42447	
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	.0974	0.5			J

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	K - RPD outside accepted recovery limits	I of I

On Site Technologies, LTD.

Date: 24-Sep-01

CLIENT: On Site Technologies Limited
Work Order: 0109019
Project: 4-1373; Conoco C Com #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0109001-01AMS		Batch ID: GC-1_010919		Test Code: SW8021B		Units: µg/L		Analysis Date 9/19/2001		Prep Date:	
Client ID:		0109019		Run ID:		GC-1_010919A		SeqNo: 42448			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.98	0.5	40	0	107.5%	70	130				
Ethylbenzene	53.68	0.5	40	11	106.7%	70	130				
m,p-Xylene	189.6	1	80	110	99.5%	70	130				
Methyl tert-Butyl Ether	41.71	1	40	0	104.3%	70	130				
o-Xylene	117.5	0.5	40	75	106.2%	70	130				
Toluene	96.26	0.5	40	54	105.6%	70	130				

Sample ID: 0109001-01AMSD		Batch ID: GC-1_010919		Test Code: SW8021B		Units: µg/L		Analysis Date 9/19/2001		Prep Date:	
Client ID:		0109019		Run ID:		GC-1_010919A		SeqNo: 42449			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.88	0.5	40	0	104.7%	70	130	42.98	2.6%	8	
Ethylbenzene	52.17	0.5	40	11	102.9%	70	130	53.68	2.9%	7	
m,p-Xylene	184.4	1	80	110	92.9%	70	130	189.6	2.8%	7	
Methyl tert-Butyl Ether	41.52	1	40	0	103.8%	70	130	41.71	0.5%	6	
o-Xylene	114.6	0.5	40	75	99.1%	70	130	117.5	2.5%	6	
Toluene	93.67	0.5	40	54	99.2%	70	130	96.26	2.7%	6	

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 24-Sep-01

CLIENT: On Site Technologies Limited
Work Order: 0109019
Project: 4-1373; Conoco C Com #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010919		Test Code: SW8021B		Units: µg/L		Analysis Date 9/19/2001		Prep Date:	
Client ID:		0109019		Run ID: GC-1_010919A				SeqNo: 42446			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.07	0.5	40	0	112.7%	80	120				
Ethylbenzene	42.93	0.5	40	0	107.3%	80	120				
m,p-Xylene	84.42	1	80	0	105.5%	80	120				
Methyl tert-Butyl Ether	44.56	1	40	0	111.4%	80	120				
o-Xylene	42.75	0.5	40	0	106.9%	80	120				
Toluene	43.03	0.5	40	0.0974	107.3%	80	120				

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: 0109019
Project: 4-1373; Conoco C Com #1

Date: 24-Sep-01

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0107		Batch ID: GC-1_010919	Test Code: SW8021B	Units: µg/L		Analysis Date 9/19/2001			Prep Date:			
Client ID: 0109019		Run ID: GC-1_010919A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 42443	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	42.46		0.5	40	0	106.2%	85	115				
Ethylbenzene	42.36		0.5	40	0	105.9%	85	115				
m,p-Xylene	83.22		1	80	0	104.0%	85	115				
Methyl tert-Butyl Ether	40.78		1	40	0	101.9%	85	115				
o-Xylene	42.29		0.5	40	0	105.7%	85	115				
Toluene	41.93		0.5	40	0	104.8%	85	115				
1,4-Difluorobenzene	111		0	120	0	92.5%	70	130				
4-Bromochlorobenzene	134.4		0	120	0	112.0%	70	130				
Fluorobenzene	107		0	120	0	89.2%	70	130				

Sample ID: CCV2 BTEX_0107		Batch ID: GC-1_010919	Test Code: SW8021B	Units: µg/L		Analysis Date 9/19/2001			Prep Date:					
Client ID:		0109019	Run ID:	GC-1_010919A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result													
Benzene	41.77		0.5	40		0		104.4%	85	115				
Ethylbenzene	41.55		0.5	40		0		103.9%	85	115				
m,p-Xylene	81.61		1	80		0		102.0%	85	115				
Methyl tert-Butyl Ether	41.47		1	40		0		103.7%	85	115				
o-Xylene	41.76		0.5	40		0		104.4%	85	115				
Toluene	41.25		0.5	40		0		103.1%	85	115				
1,4-Difluorobenzene	111		0	120		0		92.5%	70	130				
4-Bromochlorobenzene	134.5		0	120		0		112.1%	70	130				
Fluorobenzene	107		0	120		0		89.2%	70	130				

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

CLIENT: On Site Technologies Limited
Work Order: 0109019
Project: 4-1373; Conoco C Com #1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0107		Batch ID: GC-1_010919		Test Code: SW8021B		Units: µg/L		Analysis Date 9/19/2001		Prep Date:	
Client ID:		0109019		Run ID: GC-1_010919A				SeqNo: 42445			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.77	0.5	40	0	106.9%	85	115				
Ethylbenzene	42.56	0.5	40	0	106.4%	85	115				
m,p-Xylene	83.42	1	80	0	104.3%	85	115				
Methyl tert-Butyl Ether	40.61	1	40	0	101.5%	85	115				
o-Xylene	42.69	0.5	40	0	106.7%	85	115				
Toluene	42.22	0.5	40	0	105.6%	85	115				
1,4-Difluorobenzene	110.5	0	120	0	92.1%	70	130				
4-Bromochlorobenzene	135.9	0	120	0	113.3%	70	130				
Fluorobenzene	107.2	0	120	0	89.3%	70	130				

CLIENT: On Site Technologies Limited

Work Order: 0109019

Project: 4-1373; Conoco C Com #1

Test No: SW8021B

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

Sample ID	14FBZ	4BCBZ	FLBZ				
0109001-01A	93.2	111	90.2				
0109001-01AMS	91.9	112	89.4				
0109001-01AMSD	92.1	112	89.3				
0109005-01A	81.5	97.4	80.4				
0109009-01A	93.7	112	90.6				
0109009-02A	93.4	111	90.5				
0109009-03A	93.2	112	90.9				
0109017-04B	93	112	90				
0109019-01A	92.7	110	90.8				
0109021-01A	91.6	113	89.2				
0109021-02A	89.9	110	87.8				
0109021-03A	93.6	112	90.5				
0109021-04A	93.2	112	90.4				
0109021-05A	91.9	111	89.4				
0109021-06A	93.3	111	90.7				
0109021-07A	89.9	111	87.1				
0109021-08A	93.2	110	90.8				
0109021-09A	92.9	111	90.7				
0109022-01A	89.7	110	88				
0109022-02A	93.4	118	90.6				
0109022-03A	93	112	90.6				
CCV1 BTEX_01070	92.5	112	89.2				
CCV2 BTEX_01070	92.5	112	89.2				
CCV3 BTEX_01070	92.1	113	89.3				
LCS WATER	94.5	110	90.3				
MBI	93.1	111	90.6				

Acronym**Surrogate****QC Limits**

14FBZ

= 1,4-Difluorobenzene

70-130

4BCBZ

= 4-Bromochlorobenzene

70-130

FLBZ

= Fluorobenzene

70-130

* Surrogate recovery outside acceptance limits



Page:

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
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Distribution:	White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
---------------	-----------------	--------------	----------------	--------------------



CHAIN OF CUSTODY RECORD

Date: _____

Page: _____ of _____

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

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

August 22, 2001

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

RE: 4-1373; Conoco - C "Com" 1

Order No.: 0108011

Dear John Hagstrom,

On Site Technologies, LTD. received 1 sample on 08/10/2001 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 —

OFF: (505) 325-5667
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On Site Technologies, LTD.

Date: 22-Aug-01

CLIENT: On Site Technologies Limited
Project: 4-1373; Conoco - C "Com" 1
Lab Order: 0108011

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: 22-Aug-01

Client:	On Site Technologies Limited	Client Sample Info:	C "Com" 1
Work Order:	0108011	Client Sample ID:	MW-1R
Lab ID:	0108011-01A	Matrix:	AQUEOUS
Project:	4-1373; Conoco - C "Com" 1	Collection Date:	08/10/2001 9:10:00 AM
		COC Record:	11417

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	1.2	0.5		µg/L	1	08/12/2001
Toluene	ND	0.5		µg/L	1	08/12/2001
Ethylbenzene	1.6	0.5		µg/L	1	08/12/2001
m,p-Xylene	2	1		µg/L	1	08/12/2001
o-Xylene	ND	0.5		µg/L	1	08/12/2001

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

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EMAIL: ONSITE@ONSITELTD.COM

— TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT —

1 of 1

On Site Technologies, LTD.

Date: 22-Aug-01

CLIENT: On Site Technologies Limited

Work Order: 0108011

Project: 4-1373; Conoco - C "Com" I

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010812	Test Code: SW8021B	Units: µg/L	Analysis Date: 08/12/2001	Prep Date:
Client ID:	0108011	Run ID: GC-1_010812A		SeqNo: 41157	
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	.2938	1			
o-Xylene	ND	0.5			J
Toluene	.0798	0.5			J

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

K - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 22-Aug-01

CLIENT: On Site Technologies Limited
Work Order: 0108011
Project: 4-1373; Conoco - C "Com" 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0108010-30AMS		Batch ID: GC-1_010812	Test Code: SW8021B	Units: µg/L		Analysis Date 08/12/2001		Prep Date:	
Client ID:		0108011	Run ID: GC-1_010812A			SeqNo: 41158			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit Qual
Benzene	1052	10	800	272.4	97.4%	70	130		
Ethylbenzene	3077	10	800	2248	103.6%	70	130		
m,p-Xylene	1624	20	1600	49.02	98.4%	70	130		
Methyl tert-Butyl Ether	927.9	20	800	88.14	105.0%	70	130		
o-Xylene	831	10	800	11.73	102.4%	70	130		
Toluene	851	10	800	22.26	103.6%	70	130		

Sample ID: 0108010-30AMSD		Batch ID: GC-1_010812	Test Code: SW8021B	Units: µg/L		Analysis Date 08/12/2001		Prep Date:	
Client ID:		0108011	Run ID: GC-1_010812A			SeqNo: 41159			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit Qual
Benzene	1022	10	800	272.4	93.7%	70	130	1052	8
Ethylbenzene	3029	10	800	2248	97.5%	70	130	3077	7
m,p-Xylene	1589	20	1600	49.02	96.2%	70	130	1624	7
Methyl tert-Butyl Ether	912.9	20	800	88.14	103.1%	70	130	927.9	6
o-Xylene	810.3	10	800	11.73	99.8%	70	130	831	6
Toluene	840.2	10	800	22.26	102.2%	70	130	851	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: 22-Aug-01

CLIENT: On Site Technologies Limited
 Work Order: 0108011
 Project: 4-1373; Conoco - C "Com" 1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010812		Test Code: SW8021B		Units: µg/L		Analysis Date 08/12/2001		Prep Date:	
Client ID:		0108011		Run ID:		GC-1_010812A		SeqNo: 41156			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.29	0.5	40	0	100.7%	80	120				
Ethylbenzene	40.61	0.5	40	0	101.5%	80	120				
m,p-Xylene	79.55	1	80	0	99.4%	80	120				
Methyl tert-Butyl Ether	41.43	1	40	0.2938	102.8%	80	120				
o-Xylene	40.96	0.5	40	0	102.4%	80	120				
Toluene	40.46	0.5	40	0.0798	100.9%	80	120				

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: 22-Aug-01

CLIENT: On Site Technologies Limited
Work Order: 0108011
Project: 4-1373; Conoco - C "Com" 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0107		Batch ID: GC-1_010812	Test Code: SW8021B	Units: µg/L		Analysis Date 08/12/2001		Prep Date:			
Client ID:		0108011	Run ID: GC-1_010812A			SeqNo: 41152					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.67	0.5	20	0	103.3%	85	115				
Ethylbenzene	20.81	0.5	20	0	104.0%	85	115				
m,p-Xylene	40.95	1	40	0	102.4%	85	115				
Methyl tert-Butyl Ether	20.9	1	20	0	104.5%	85	115				
o-Xylene	20.91	0.5	20	0	104.6%	85	115				
Toluene	20.74	0.5	20	0	103.7%	85	115				
1,4-Difluorobenzene	113.3	0	120	0	94.4%	70	130				
4-Bromochlorobenzene	120.2	0	120	0	100.2%	70	130				
Fluorobenzene	113.2	0	120	0	94.3%	70	130				

Sample ID: CCV2 BTEX_0107		Batch ID: GC-1_010812	Test Code: SW8021B	Units: µg/L		Analysis Date 08/12/2001		Prep Date:					
Client ID:		0108011	Run ID: GC-1_010812A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	41.6			0.5	40	0	104.0%	85	115				
Ethylbenzene	41.95			0.5	40	0	104.9%	85	115				
m,p-Xylene	81.87			1	80	0	102.3%	85	115				
Methyl tert-Butyl Ether	41.55			1	40	0	103.9%	85	115				
o-Xylene	42.07			0.5	40	0	105.2%	85	115				
Toluene	41.8			0.5	40	0	104.5%	85	115				
1,4-Difluorobenzene	112.8			0	120	0	94.0%	70	130				
4-Bromochlorobenzene	119.9			0	120	0	99.9%	70	130				
Fluorobenzene	113			0	120	0	94.1%	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
Work Order: 0108011
Project: 4-1373; Conoco - C "Com" 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0107		Batch ID: GC-1_010812	Test Code: SW8021B	Units: µg/L	Analysis Date 08/12/2001		Prep Date:							
Client ID:	0108011	Run ID:	GC-1_010812A	PQL	SPK value	SPK Ref Val	%REC	SeqNo: 41154	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result													
Benzene	20.96			0.5	20	0	104.8%		85	115				
Ethylbenzene	21.2			0.5	20	0	106.0%		85	115				
m,p-Xylene	41.61			1	40	0	104.0%		85	115				
Methyl tert-Butyl Ether	20.96			1	20	0	104.8%		85	115				
o-Xylene	21.26			0.5	20	0	106.3%		85	115				
Toluene	21.03			0.5	20	0	105.2%		85	115				
1,4-Difluorobenzene	113.6			0	120	0	94.7%		70	130				
4-Bromochlorobenzene	118.6			0	120	0	98.9%		70	130				
Fluorobenzene	112.8			0	120	0	94.0%		70	130				

Sample ID: CCV4 BTEX_0107		Batch ID: GC-1_010812	Test Code: SW8021B	Units: µg/L	Analysis Date 08/12/2001		Prep Date:				
Client ID:	0108011	Run ID:	GC-1_010812A		SeqNo:	41155					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.28	0.5	20	0	106.4%	85	115				
Ethylbenzene	21.13	0.5	20	0	105.7%	85	115				
m,p-Xylene	41.73	1	40	0	104.3%	85	115				
Methyl tert-Butyl Ether	21.01	1	20	0	105.0%	85	115				
o-Xylene	21.34	0.5	20	0	106.7%	85	115				
Toluene	21.28	0.5	20	0	106.4%	85	115				
1,4-Difluorobenzene	113.5	0	120	0	94.6%	70	130				
4-Bromochlorobenzene	119.6	0	120	0	99.7%	70	130				
Fluorobenzene	113.6	0	120	0	94.6%	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: 22-Aug-01

CLIENT: On Site Technologies Limited

Work Order: 0108011

Project: 4-1373; Conoco - C "Com" 1

Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0108009-01A	92.6	99.5	94.7
0108009-06A	96.9	99	99.9
0108009-08A	95.1	98.4	96.9
0108009-11A	95.4	98.9	98.6
0108009-12A	96.2	100	95.3
0108009-13A	92.9	98.7	94.3
0108009-14A	95.5	99.4	96.5
0108009-15A	95.3	99.1	97
0108010-30A	97.7	98.3	95.8
0108010-30AMS	97.3	97.6	95.4
0108010-30AMSD	97	97.8	94.6
0108010-31A	94	99.5	93.8
0108011-01A	95.3	100	96.1
CCV1 BTEX_01070	94.4	100	94.3
CCV2 BTEX_01070	94	99.9	94.1
CCV3 BTEX_01070	94.7	98.9	94
CCV4 BTEX_01070	94.6	99.7	94.6
LCS WATER	95.2	100	94
MB1	96.3	100	95.8

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

* Surrogate recovery outside acceptance limits



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

Page: _____ of _____

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



Page: _____ of _____

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

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

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



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

December 17, 2001

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

RE: 4-1373; Conoco C Com 1

Order No.: 0112013

Dear John Hagstrom,

On Site Technologies, LTD. received 1 sample on 12/13/2001 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 'DC' or 'D Cox', 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: 17-Dec-01

CLIENT: On Site Technologies Limited
Project: 4-1373; Conoco C Com 1
Lab Order: 0112013

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: 17-Dec-01

Client:	On Site Technologies Limited	Client Sample Info:	Conoco C Com 1
Work Order:	0112013	Client Sample ID:	MW-1
Lab ID:	0112013-01A	Matrix:	AQUEOUS
Project:	4-1373; Conoco C Com 1	Collection Date:	12/13/2001 9:15:00 AM
		COC Record:	11693

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	1.8	0.5		µg/L	1	12/15/2001
Toluene	ND	0.5		µg/L	1	12/15/2001
Ethylbenzene	1.4	0.5		µg/L	1	12/15/2001
m,p-Xylene	1.6	1		µg/L	1	12/15/2001
o-Xylene	ND	0.5		µg/L	1	12/15/2001

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: 17-Dec-01

CLIENT: On Site Technologies Limited
 Work Order: 0112013
 Project: 4-1373; Conoco C Com 1

QC SUMMARY REPORT

Method Blank

Sample ID: MB_011215	Batch ID: GC-1_011215	Test Code: SW8021B	Units: µg/L	Analysis Date 12/15/2001	Prep Date: 12/15/01
Client ID:	0112013	Run ID: GC-1_011215A		SeqNo: 45894	
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			
1,4-Difluorobenzene	102.1	0			
4-Bromochlorobenzene	112.6	0			
Fluorobenzene	102	0			

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: 17-Dec-01

CLIENT: On Site Technologies Limited
Work Order: 0112013
Project: 4-1373; Conoco C Com 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0112009-09AMS		Batch ID: GC-1_011215		Test Code: SW8021B		Units: µg/L		Analysis Date 12/15/2001		Prep Date: 12/15/01	
Client ID:		0112013		Run ID: GC-1_011215A				SeqNo: 45895			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1866	25	2000	20	92.3%	70	130				
Ethylbenzene	1793	25	2000	10	89.2%	70	130				
m,p-Xylene	2279	50	4000	10	56.7%	70	130				
Methyl tert-Butyl Ether	2575	50	2000	560	100.7%	70	130				
o-Xylene	1829	25	2000	0	91.5%	70	130				
Toluene	1833	25	2000	30	90.1%	70	130				
1,4-Difluorobenzene	5131	0	5500	0	93.3%	77	112				
4-Bromochlorobenzene	5752	0	5500	0	104.6%	88	116				
Fluorobenzene	5209	0	5500	0	94.7%	87	102				
											S

Sample ID: 0112009-09AMSD	Batch ID: GC-1_011215	Test Code: SW8021B	Units: µg/L	Analysis Date 12/15/2001		Prep Date: 12/15/01				
Client ID:	Run ID: 0112013	PQL	SPK value	SPK RefVal	SeqNo: 45896		%RPD	RPDLimit	Qual	
					LowLimit	HighLimit				
Analyte	Result				%REC					
Benzene	1812	25	2000	20	89.6%	70	130	1866	2.9%	6
Ethylbenzene	1753	25	2000	10	87.1%	70	130	1793	2.3%	7
m,p-Xylene	2226	50	4000	10	55.4%	70	130	2279	2.4%	6
Methyl tert-Butyl Ether	2549	50	2000	560	99.4%	70	130	2575	1.0%	5
o-Xylene	1783	25	2000	0	89.1%	70	130	1829	2.6%	5
Toluene	1771	25	2000	30	87.0%	70	130	1833	3.4%	6
1,4-Difluorobenzene	5130	0	5500	0	93.3%	77	112	0	0.0%	0
4-Bromochlorobenzene	5702	0	5500	0	103.7%	88	116	0	0.0%	0
Fluorobenzene	5171	0	5500	0	94.0%	87	102	0	0.0%	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: 17-Dec-01

CLIENT: On Site Technologies Limited
 Work Order: 0112013
 Project: 4-1373; Conoco C Com 1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_011215		Batch ID: GC-1_011215		Test Code: SW8021B		Units: µg/L		Analysis Date 12/15/2001		Prep Date: 12/15/01	
Client ID:		0112013		Run ID: GC-1_011215A				SeqNo: 45893			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.56	0.5	40	0	91.4%	80	120				
Ethylbenzene	36.68	0.5	40	0	91.7%	80	120				
m,p-Xylene	76.03	1	80	0	95.0%	80	120				
Methyl tert-Butyl Ether	39.98	1	40	0	100.0%	80	120				
o-Xylene	38.68	0.5	40	0	96.7%	80	120				
Toluene	36.89	0.5	40	0	92.2%	80	120				
1,4-Difluorobenzene	101	0	110	0	91.8%	77	112				
4-Bromochlorobenzene	112.6	0	110	0	102.4%	88	116				
Fluorobenzene	103.1	0	110	0	93.7%	87	102				

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	

1 of 1

On Site Technologies, Ltd.

Date: 17-Dec-01

CLIENT: On Site Technologies Limited
 Work Order: 0112013
 Project: 4-1373; Conoco C Com 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_011215		Batch ID: GC-1_011215		Test Code: SW8021B		Units: µg/L		Analysis Date 12/15/2001		Prep Date: 12/15/01	
Client ID:		0112013		Run ID: GC-1_011215A				SeqNo: 45888			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.58	0.5	20	0	92.9%	85	115				
Ethylbenzene	18.92	0.5	20	0	94.6%	85	115				
m,p-Xylene	38.68	1	40	0	96.7%	85	115				
Methyl tert-Butyl Ether	20.89	1	20	0	104.5%	85	115				
o-Xylene	19.9	0.5	20	0	99.5%	85	115				
Toluene	18.67	0.5	20	0	93.3%	85	115				
1,4-Difluorobenzene	101.8	0	110	0	92.6%	77	112				
4-Bromochlorobenzene	112.5	0	110	0	102.3%	88	116				
Fluorobenzene	103.6	0	110	0	94.2%	87	102				

Sample ID: CCV2_011215	Batch ID: GC-1_011215	Test Code: SW8021B	Units: µg/L	Analysis Date 12/15/2001		Prep Date: 12/15/01		
Client ID:	0112013	Run ID:	GC-1_011215A	SeqNo: 45889		%RPD	RPDLimit	Qual
				LowLimit	HighLimit			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene	18.08	0.5	20	0	90.4%	85	115	
Ethylbenzene	17.94	0.5	20	0	89.7%	85	115	
m,p-Xylene	36.74	1	40	0	91.8%	85	115	
Methyl tert-Butyl Ether	20.46	1	20	0	102.3%	85	115	
o-Xylene	18.83	0.5	20	0	94.1%	85	115	
Toluene	18.12	0.5	20	0	90.6%	85	115	
1,4-Difluorobenzene	103.1	0	110	0	93.7%	77	112	
4-Bromochlorobenzene	114.4	0	110	0	104.1%	88	116	
Fluorobenzene	104.5	0	110	0	95.0%	87	102	

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: 0112013
 Project: 4-1373; Conoco C Com 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_011215		Batch ID: GC-1_011215		Test Code: SW8021B		Units: µg/L		Analysis Date 12/15/2001		Prep Date: 12/15/01	
Client ID:		0112013		Run ID: GC-1_011215A				SeqNo: 45890			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.84	0.5	40	0	92.1%	85	115				
Ethylbenzene	36.2	0.5	40	0	90.5%	85	115				
m,p-Xylene	75.27	1	80	0	94.1%	85	115				
Methyl tert-Butyl Ether	39.04	1	40	0	97.6%	85	115				
o-Xylene	38.14	0.5	40	0	95.4%	85	115				
Toluene	36.72	0.5	40	0	91.8%	85	115				
1,4-Difluorobenzene	101.6	0	110	0	92.4%	77	112				
4-Bromochlorobenzene	110.6	0	110	0	100.5%	88	116				
Fluorobenzene	103.1	0	110	0	93.8%	87	102				

Sample ID: CCV4_011215		Batch ID: GC-1_011215		Test Code: SW8021B		Units: µg/L		Analysis Date 12/15/2001		Prep Date: 12/15/01	
Client ID:		0112013		Run ID: GC-1_011215A				SeqNo: 45891			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.11	0.5	20	0	95.5%	85	115				
Ethylbenzene	19.15	0.5	20	0	95.8%	85	115				
m,p-Xylene	39.66	1	40	0	99.2%	85	115				
Methyl tert-Butyl Ether	21.18	1	20	0	105.9%	85	115				
o-Xylene	20.19	0.5	20	0	100.9%	85	115				
Toluene	18.72	0.5	20	0	93.6%	85	115				
1,4-Difluorobenzene	103.2	0	110	0	93.9%	77	112				
4-Bromochlorobenzene	111.2	0	110	0	101.1%	88	116				
Fluorobenzene	104.9	0	110	0	95.3%	87	102				

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: 0112013

Project: 4-1373; Conoco C Com I

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV5_011215	Batch ID: GC-1_011215	Test Code: SW8021B	Units: µg/L	Analysis Date 12/15/2001		Prep Date: 12/15/01					
Client ID:	0112013	Run ID: GC-1_011215A		SeqNo: 45892							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.42	0.5	20	0	92.1%	85	115				
Ethylbenzene	18.4	0.5	20	0	92.0%	85	115				
m,p-Xylene	37.78	1	40	0	94.5%	85	115				
Methyl tert-Butyl Ether	20.74	1	20	0	103.7%	85	115				
o-Xylene	19.17	0.5	20	0	95.8%	85	115				
Toluene	18.36	0.5	20	0	91.8%	85	115				
1,4-Difluorobenzene	102	0	110	0	92.7%	77	112				
4-Bromochlorobenzene	111.8	0	110	0	101.7%	88	116				
Fluorobenzene	103.4	0	110	0	94.0%	87	102				

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: 0112013

Project: 4-1373; Conoco C Com 1

Test No: SW8021B

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

Sample ID	14FBZ	4BCBZ	FLBZ					
0112009-01A	93.2	98.8	94.3					
0112009-02A	93.4	104	94.4					
0112009-03A	93.8	102	94.9					
0112009-04A	94.2	105	95.1					
0112009-05A	93.9	102	94.7					
0112009-06A	93	103	95.1					
0112009-07A	94.3	103	95.5					
0112009-08A	92.6	103	94.4					
0112009-09A	95.4	105	95.5					
0112009-09AMS	93.3	104	94.7					
0112009-09AMSD	93.3	104	94					
0112010-01A	94.3	101	94.3					
0112012-01A	92.5	103	93.9					
0112013-01A	94.4	104	95.4					
0112014-01A	84.3	98.2	94.5					
0112015-01A	92.2	98.9	93.8					
0112015-02A	86.6	97.5	93.6					
0112015-03A	94.8	105	95.3					
0112016-01A	95.2	101	95.5					
CCV1_011215	92.6	102	94.2					
CCV2_011215	93.7	104	95					
CCV3_011215	92.4	100	93.8					
CCV4_011215	93.8	101	95.3					
CCV5_011215	92.7	102	94					
LCS_011215	91.8	102	93.7					
MB_011215	92.8	102	92.7					

Acronym**Surrogate****QC Limits**

14FBZ	=	1,4-Difluorobenzene	77-112
4BCBZ	=	4-Bromochlorobenzene	88-116
FLBZ	=	Fluorobenzene	87-102

* Surrogate recovery outside acceptance limits



Date: _____

Page: _____ of _____

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