

3R - 90

REPORTS

DATE:

2001



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 Project #: 2-1363
Conoco Location: NELL-HALL #1,
Unit M, Sec. 07, T30N, R11W, 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 2001, 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 2001 ACTIVITIES:

Ground water sampling events were conducted in March, June, September and December 2001. Samples were not taken during the March 2001 and January 2001 sampling events, due to the lack of measurable water.

Historically ground water levels in the area fluctuate, leading to periods of the year when there is no measurable water in any of the monitoring wells and sparge points. The winter months are routinely the months with the lowest water levels.

SAMPLING:

In accordance with the monitoring plan, water levels were measured on all monitoring wells prior to purging and sampling. If measurable water was present in the monitoring well, water 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 2001, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

PO Box 2606
Farmington, NM 87499

505-325-5667

FAX: 505-327-1496

Summary and Conclusions:

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

1. MW-1 shows declining BTEX levels, and was below the New Mexico Water Quality Control Commission (NMWQCC) standards during the June and September sampling events.
2. SP-7 continues to show BTEX contamination levels above the New Mexico Water Quality Control Commission (NMWQCC) standards.
3. BTEX contamination of ground water fluctuates with the fluctuation of the ground water elevation.
4. The ground water during 2001 fluctuated seasonally with changes in irrigation and flow in the Animas River.

RECOMMENDATION:

1. Continue sampling of monitoring wells and sparge points until four sampling events demonstrates that contamination levels are below NMWCC standards.

LIMITATIONS AND CLOSURE:

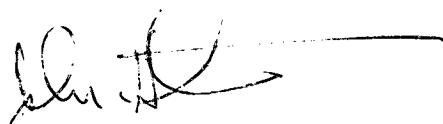
This annual groundwater report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 2001. This report follows the monitoring plan, dated October 15, 1997.

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
Figure 2, & 3, Ground Water Potentiometric Map
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.

Dave Feddotta SHEAR Specialist
(Name/Title)
2/21/02
(Date)

JPH/jph: 41363-01.doc

REFERENCES:

On Site Technologies, Ltd., February 1, 1998, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1997 Annual Ground Water Report, *Conoco Location, Nell-Hall #1, Unit M, Sec. 07, T30N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 9, 1999, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1998 Annual Ground Water Report, *Conoco Location, Nell-Hall #1, Unit M, Sec. 07, T30N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., January 10, 2000, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1999 Annual Ground Water Report, *Conoco Location, Nell-Hall #1, Unit M, Sec. 07, T30N, R11W, NMPM, San Juan Co., NM*

Table1
 Groundwater Level SUMMARY
 Neil-Hall #1
 Unit M, Sec. 07, T30N, R11W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)*	Well Type	Screen Interval (ft) (BGS)*	Sample Date	Depth to Groundwater (ft) (BTOC)*	Relative Groundwater Elevation (ft)
MW#1	97.63	28.61	2" PVC	18.61 to 28.61	03/27/97	NMW	
RESURVEY 6/16/98	97.88			08/07/97 09/16/97 12/30/97 06/12/98 6/16/98 9/28/98 12/30/98 3/3/99 6/6/99 9/15/99 12/13/99 3/13/00 6/5/00 9/11/00 01/23/00 3/20/01 06/14/01 09/18/01 12/13/01	19.11	NMW	78.52
					21.09	NMW	76.54
					23.56	NMW	74.07
					23.56	NMW	74.32
					14.86	NMW	83.02
					29.23	NMW	68.65
					24.02	NMW	73.86
					22.88	NMW	75.00
					15.72	NMW	
					15.72	NMW	84.99
					24.50	NMW	73.88
					06/14/01	NMW	
					14.34	NMW	83.54
					7.66	NMW	90.22
					12/13/01	NMW	

BGS - approximate measurements taken as Below Ground Surface
 BTOC - Below Top of Casing
 NM - Not Measured
 NMW - No Measurable Water

Table1
Groundwater Level SUMMARY
Nell-Hall #1
Unit M, Sec. 07, T30N, R11W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)*	Well Type	Screen Interval (ft) * (BGS)	Sample Date	Depth to Groundwater (ft) (BTOC)*	Relative Groundwater Elevation (ft)
MW#2	96.96	27.31	2" PVC	17.31 to 27.31	03/27/97	NMW	77.79
RESURVEY 6/16/98	97.12				08/07/97	19.17	
					09/16/97	20.79	76.17
					12/30/97	NMW	
					06/12/98	22.31	73.21
					6/16/98	23.66	73.46
					9/28/98	14.97	82.15
					12/30/98	NMW	
					3/3/99	NMW	
					6/6/99	23.11	74.01
					9/15/99	22.73	74.39
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	24.99	72.13
					9/11/00	16.78	86.59
					01/23/00	NMW	
					03/20/01	NMW	
					06/14/01	NM	
					09/19/01	7.53	89.59
					12/13/01	NMW	

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Table1
Groundwater Level SUMMARY
Neil-Hall #1
Unit M, Sec. 07, T30N, R11W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)*	Well Type	Screen Interval (ft) (BGS)*	Sample Date	Depth to Groundwater (ft) (BTOC)*	Relative Groundwater Elevation (ft)
MW#3	97.48	27.03	2" PVC	17.03 to 27.03	03/27/97	NMW	
RESURVEY 6/16/98	97.88				08/07/97	20.02	77.46
					09/16/97	21.40	76.08
					12/30/97	NMW	
					06/12/98	24.51	72.97
					6/16/98	24.51	73.37
					9/28/98	15.40	82.48
					12/30/98	NMW	
					3/3/99	NMW	
					6/6/99	22.61	75.27
					9/15/99	23.45	74.43
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	25.93	71.95
					9/11/00	17.32	88.17
					01/23/00	NMW	
					03/20/01	NMW	
					06/14/01	17.16	80.72
					09/19/01	8.64	89.24
					12/13/01	NMW	

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Table1
Groundwater Level SUMMARY
 Neil-Hall #1
 Unit M, Sec. 07, T30N, R11W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)*	Well Type	Screen Interval (ft) (BGS)*	Sample Date	Groundwater (ft) (BTOC)*	Relative Groundwater Elevation (ft)
SP 3	95.82	25.29	2" PVC	15.29 to 25.29	6/16/98	22.86	72.96
					9/28/98	13.08	82.74
					12/30/998	25.11	70.71
					3/3/99	NMW	
					6/6/99	21.67	74.15
					9/15/99	21.49	74.33
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	24.11	71.71
					9/11/00	15.61	86.14
					01/23/00	NMW	
					03/20/01	NMW	
					06/14/01	15.54	80.28
					09/19/01	NM	
					12/13/01	NMW	

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Table1
Groundwater Level SUMMARY
Nell-Hall #1
Unit M, Sec. 07, T30N, R11W

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)
SP 4	96.03	25.36	2" PVC	15.36 to 25.36	6/16/98	22.09	73.94
					9/28/98	13.33	82.70
					12/30/98	NMW	
					3/3/99	NMW	
					6/6/99	22.47	73.56
					9/15/99	21.32	74.71
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	23.02	71.88
					9/11/00	13.96	84.63
					01/23/00	NMW	
					03/20/01	NMW	
					06/14/01	14.72	81.31
					09/19/01	NM	
					12/13/01	NMW	

BGS - approximate measurements taken as Below Ground Surface

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Table1
Groundwater Level SUMMARY
Nell-Hall #1
Unit M, Sec. 07, T30N, R11W

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)
SP 6	95.90	28.12	2" PVC	18.12 to 28.12	6/16/98	22.77	73.13
					9/28/98	14.00	81.90
					12/30/98	28.22	67.68
					3/3/99	NMW	
					6/6/99	22.21	73.69
					9/15/99	21.65	74.25
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	24.02	71.56
					9/11/00	15.46	71.56
					01/23/00	NMW	
					03/20/01	NMW	
					06/14/01	14.99	80.91
					09/19/01	6.64	89.26
					12/13/01	NMW	

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Table1
Groundwater Level SUMMARY
 Neil-Hall #1
 Unit M, Sec. 07, T30N, R11W

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)
SP 7	96.06	26.92	2" PVC	16.92 to 26.92	6/16/98	22.67	73.39
					9/28/98	13.27	82.46
					12/30/98	NMW	
					3/3/99	NMW	
					6/6/99	22.42	73.64
					9/15/99	21.23	74.83
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	24.50	71.56
					9/11/00	14.42	83.56
					0/1/23/00	NMW	
					03/20/01	NMW	
					06/14/01	13.98	82.08
					09/19/01	6.21	89.85
					12/13/01	NMW	

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Table1
Groundwater Level SUMMARY
Nell-Hall #1
Unit M, Sec. 07, T30N, R11W

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)
SP 8	96.12	25.92	2" PVC	15.92 to 25.92	6/16/98	22.73	73.39
				12/30/98	9/28/98	13.60	82.52
				NMW			
				3/3/99	NMW		
				6/6/99	22.68		73.44
				9/15/99	21.51		74.61
				12/1/99	NMW		
				3/13/00	NMW		
				6/5/00	23.89		71.88
				9/11/00	15.14		85.34
				01/23/01	NMW		
				03/20/01	NMW		
				06/14/01	15.7		80.42
				09/19/01	6.84		89.28
				12/13/01	NMW		

BGS - approximate measurements taken as Below Ground Surface

BTOC - Below Top of Casing

NM - Not Measured

NMW - No Measurable Water

Table 2
BTEX Analytical Summary
Nell-Hall #1
Unit M, Sec.07, T30N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)		
06/14/96	0396G01016	MW#1	IML	Benzene	Toluene	Ethylbenzene
06/28/96	0369G01208		IML	BDL	42.0	757.0
07/12/96	0369G01336		IML	BDL	15.2	720.0
04/01/97		On Site Lab.	No	Sample	168.0	14404.0
08/07/97	15686					BDL
09/16/97	16200					
12/30/97						
06/12/98	980653-01A		No	Sample	19.0	9310.0
09/28/98	9809078-01A					
6/16/99	9906061-04A		3.3	38.0	8.2	1197.0
9/15/99	9909057-04A		76.0	16.0	230.0	2140.0
6/5/00	0006012-02A		20.0	17.0	86.0	524.0
9/11/00	0009019-04A		100.0	16.0	120.0	3007.2
6/14/01	0106014-04A		46.0	12.0	19.0	600.0
9/19/01	0109027-04A		4.4	BDL	7.7	54.3
12/13/01		No	3.2	BDL	6.8	86.8
		Sample				
			Taken			
06/14/97	0396G01017	MW#2	IML	9.0	1.6	26.1
06/28/96	0396G01209		IML	BDL	0.4	1.1
07/12/96	0396G01337		IML	0.5	BDL	0.4
04/01/97		On Site Lab.	No	Sample	1.7	0.8
08/07/97	15687					
09/16/97	16201		BDL	BDL	0.8	2704
12/30/97						
06/12/98	9806053-02A		35.0	0.2	33.8	
9/28/98	9809078-02A		No	Sample		
WQCC	ACTION	LEVELS				
			BDL	BDL	BDL	
			BDL	BDL	BDL	
			10.0	750.0	750.0	620.0

BDL: Below Detection Limits

Table 2
BTTEX Analytical Summary
Nell-Hall #1
Unit M, Sec.07, T30N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTTEX per EPA 8020 (ppb)		
06/14/96	0396G01017	MW#3	IML	Benzene	Toluene	Ethylbenzene
06/28/96	0396G1210		IML	31.3	BDL	BDL
07/12/96	0396G01338		IML	BDL	BDL	BDL
04/01/97		On Site Lab.	No	BDL	BDL	BDL
08/07/97	15688		Sample Taken	BDL	BDL	BDL
09/16/97	16202		BDL	BDL	BDL	BDL
12/30/97			No Sample Taken	BDL	BDL	BDL
06/12/98	9806053-03A		BDL	BDL	BDL	BDL
9/28/98	9809078-03A		BDL	BDL	BDL	BDL
9/28/98	9809078-05A	SP#1	On Site Lab.	BDL	4.2	4.0
9/28/98	9809078-04A	SP#2	On Site Lab.	BDL	2.2	BDL
6/16/99	9906061-01A			7.8	BDL	1.7
9/15/99	9909057-01A			21	2.2	265.5
6/16/99	9906061-02A	SP#6	On Site Lab.	580.0	BDL	270.0
9/15/99	9909057-02A			1.2	0.5	3000.0
9/11/00	0009019-01A			0.6	BDL	10.0
6/14/01	0106014-01A			52	BDL	14.6
9/19/01	0109027-01A			BDL	12.0	26.6
12/13/01	Action	LEVELS	Sample Taken	BDL	BDL	6.1
WQCC				10.0	750.0	620.0

BDL: Below Detection Limits

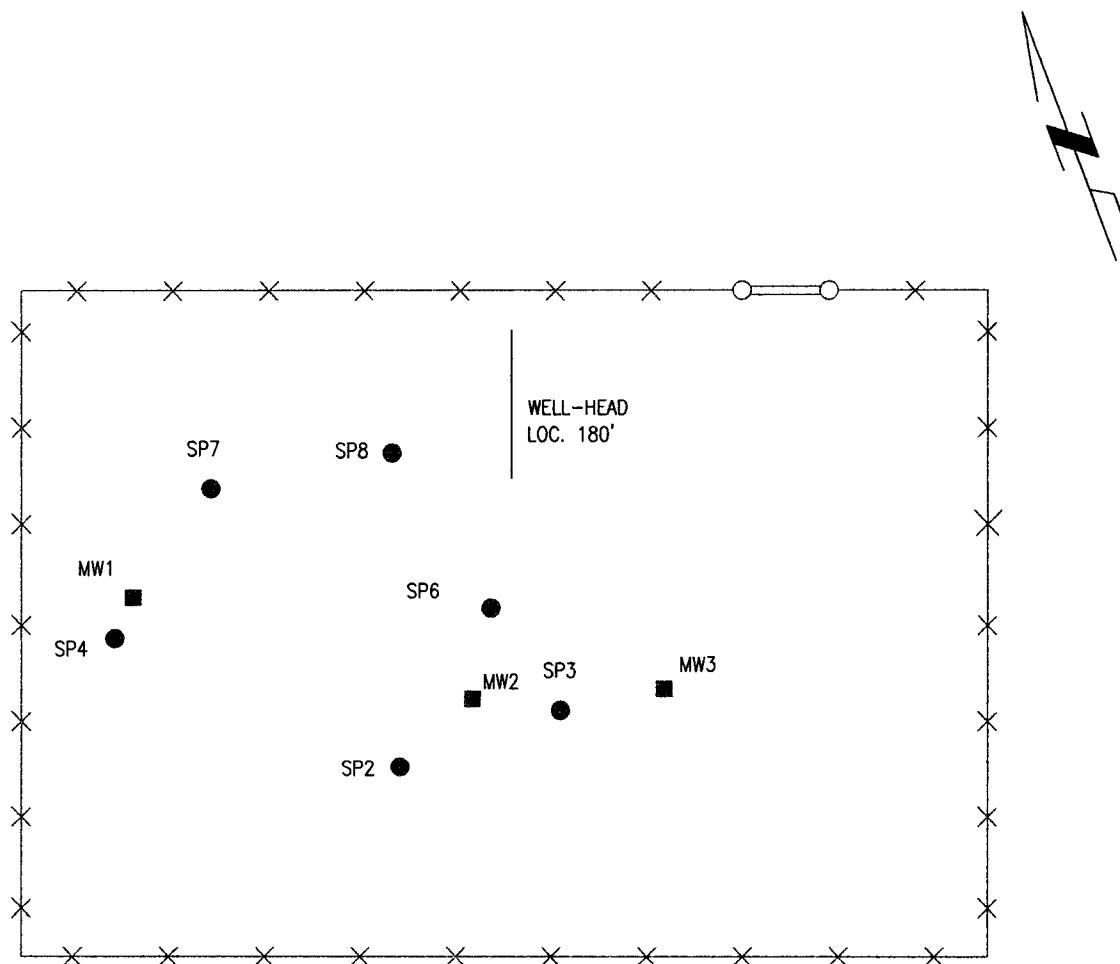
Note: No samples taken during the December 30, 1998 sampling event

Table 2
BTEX Analytical Summary
Nell-Hall #1
Unit M, Sec.07, T30N, R11W

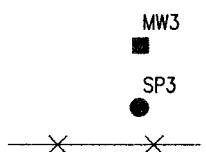
Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
9/28/98	9809078-06A	SP#7	On Site Lab.	120.0	19.0	15.0	3300.0
6/16/99	9906061-03A			200.0	40.0	240.0	7313.0
9/15/99	9909057-03A			140.0	19.0	260.0	5110.0
6/5/00	0006012-01A			68.0	BDL	220.0	3900.0
9/11/00	0009019-03A			71.0	11.0	72.0	1500.0
6/14/01	0106014-03A			29.0	BDL	81.0	2100
9/19/01	0109027-03A	No	Sample	34.0	10.0	34.0	740.0
12/13/01			Taken				
6/5/00	0006012-03A	SP#8	On Site Lab.	16.0	BDL	31.0	170.0
9/11/00	0009019-02A			BDL	BDL	3.0	36.0
6/14/01	0106014-02A			23.0	BDL	490.0	3900
9/19/01	0109027-02A	No	Sample	BDL	BDL	BDL	BDL
12/13/01	WQCC ACTION LEVELS			10.0	750.0	750.0	620.0

BDL: Below Detection Limits

Note: No samples taken during the December 30, 1998 sampling event



LEGEND

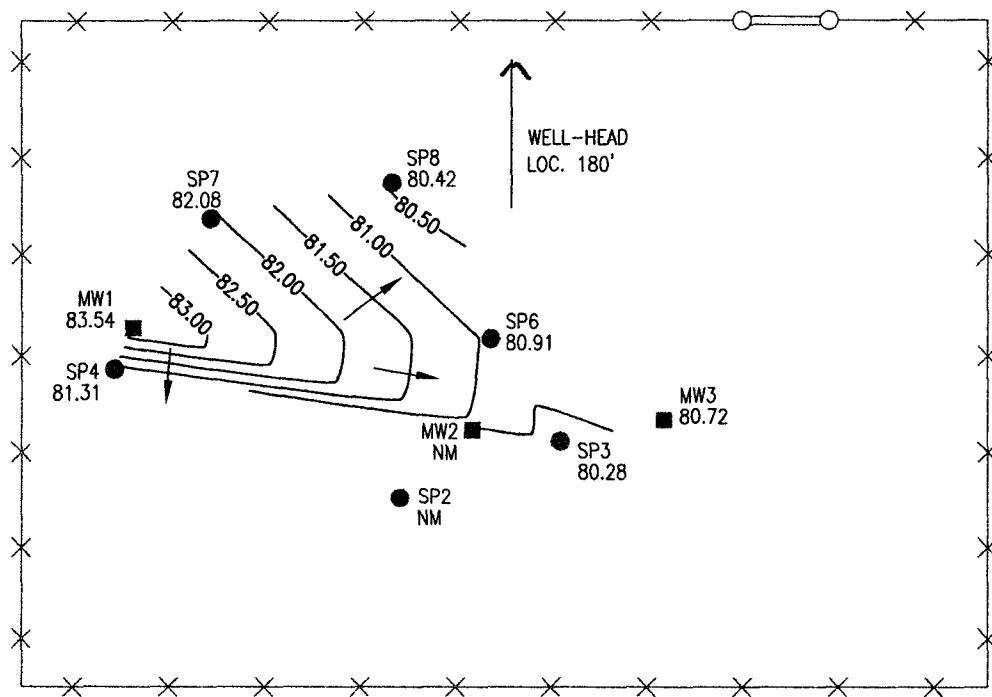


MONITORING WELL LOCATION
SPARGE POINT LOCATION
FENCE

SCALE (feet)
0 20 60

NOTE: SP#1 REMOVED.

<p>ON SITE TECHNOLOGIES, LTD. Limited Partnership</p> <p>612 E. MURRAY DR. PH. (505) 327-1072 FARMINGTON, NM 87401 FAX (505) 327-1498</p>	APPROVED: <i>JET</i>	DATE: 2/21/02	<p>SITE MAP</p> <p>NELL HALL #1</p>
	DRWN BY: MED	DATE: 2/13/02	
	CHK'D BY: <i>JH</i>	DATE: 2/18/02	
	PROJECT NO: 2-1363	SHEET: 1 OF 3	



LEGEND

- MW3 MONITORING WELL LOCATION
- SP3 SPARGE POINT LOCATION
- X FENCE
- 83.50— GROUND WATER SURFACE CONTOUR
- GRADIENT

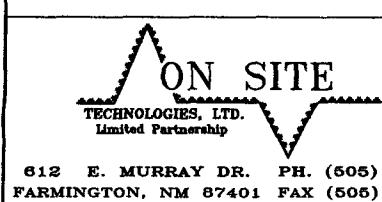
SCALE (feet)

0 20 60

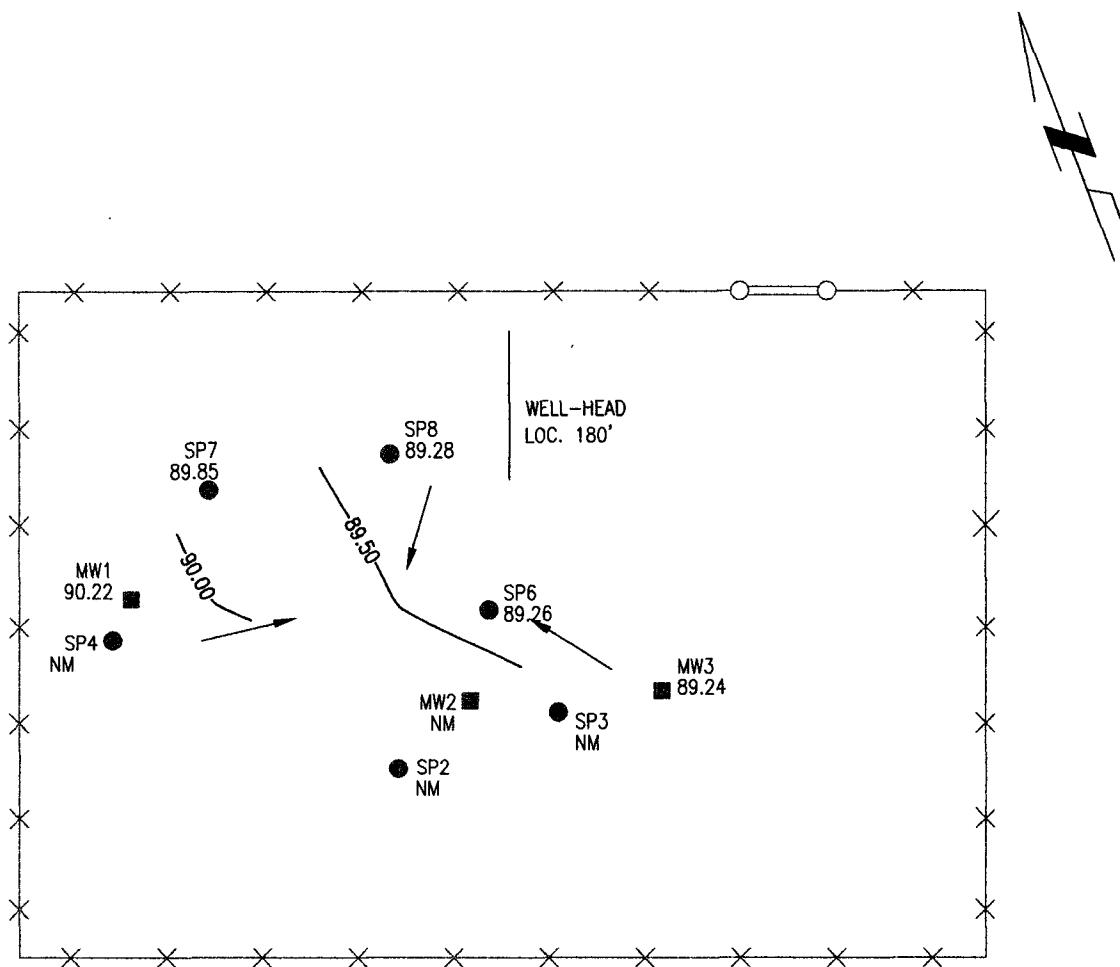
NOTE: SP#1 REMOVED.

GROUND WATER POTENTIOMETER MAP
JUNE 14, 2001

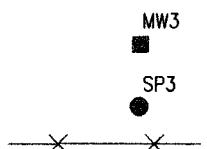
NELL HALL #1



APPROVED:	DATE:
DRWN BY: MED	DATE: 2/13/02
CHK'D BY: <i>JH</i>	DATE: 2/18/02
PROJECT NO: 2-1363	SHEET: 2 OF 3



LEGEND



—— GROUND WATER SURFACE CONTOUR
 → GRADIENT

SCALE (feet)

0	20	60
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NOTE: SP#1 REMOVED.

	APPROVED:	DATE:
	DRWN BY: MED	DATE: 2/13/02
	CHK'D BY: JH	DATE: 2/18/02
612 E. MURRAY DR. FARMINGTON, NM 87401	PROJECT NO: 2-1363	SHEET: 3 OF 3
PH. (505) 327-1072 FAX (505) 327-1496		

APPROVED:	DATE:
DRWN BY: MED	DATE: 2/13/02
CHK'D BY: JH	DATE: 2/18/02
PROJECT NO: 2-1363	SHEET: 3 OF 3

GROUND WATER POTENTIOMETER MAP
SEPTEMBER 18 & 19, 2001

NELL HALL #1



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

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

July 04, 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: 2-1363; Conoco Nell Hall

Order No.: 0106014

Dear John Hagstrom,

On Site Technologies, LTD. received 4 samples on 6/14/2001 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 read "David Cox".

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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LAB: (505) 325-1556
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On Site Technologies, LTD.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited
Project: 2-1363; Conoco Nell Hall
Lab Order: 0106014

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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ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Nell Hall
Work Order:	0106014	Client Sample ID:	SP 6
Lab ID:	0106014-01A	Matrix:	AQUEOUS
Project:	2-1363; Conoco Nell Hall	Collection Date:	6/14/2001 12:00:00 PM
		COC Record:	11343

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	52	0.5		µg/L	1	6/26/2001
Toluene	ND	0.5		µg/L	1	6/26/2001
Ethylbenzene	10	0.5		µg/L	1	6/26/2001
m,p-Xylene	5.6	1		µg/L	1	6/26/2001
o-Xylene	0.5	0.5		µg/L	1	6/26/2001

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 4

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
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ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Nell Hall
Work Order:	0106014	Client Sample ID:	SP 8
Lab ID:	0106014-02A	Matrix:	AQUEOUS
Project:	2-1363; Conoco Nell Hall	Collection Date:	6/14/2001 12:15:00 PM
		COC Record:	11343

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DM	
Benzene	23	10	μg/L	20	6/27/2001	
Toluene	ND	10	μg/L	20	6/27/2001	
Ethylbenzene	490	10	μg/L	20	6/27/2001	
m,p-Xylene	3900	20	μg/L	20	6/27/2001	
o-Xylene	ND	10	μg/L	20	6/27/2001	

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
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J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

2 of 4

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ANALYTICAL REPORT

Date: 04-Jul-01

Client: On Site Technologies Limited **Client Sample Info:** Nell Hall
Work Order: 0106014 **Client Sample ID:** SP 7
Lab ID: 0106014-03A **Matrix:** AQUEOUS **Collection Date:** 6/14/2001 12:35:00 PM
Project: 2-1363; Conoco Nell Hall **COC Record:** 11343

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	29	5		µg/L	10	6/26/2001
Toluene	ND	5		µg/L	10	6/26/2001
Ethylbenzene	81	5		µg/L	10	6/26/2001
m,p-Xylene	2100	10		µg/L	10	6/26/2001
o-Xylene	ND	5		µg/L	10	6/26/2001

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

3 of 4

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
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ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Nell Hall
Work Order:	0106014	Client Sample ID:	MW 1
Lab ID:	0106014-04A	Matrix:	AQUEOUS
Project:	2-1363; Conoco Nell Hall	Collection Date:	6/14/2001 1:00:00 PM
		COC Record:	11343

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID						SW8021B	Analyst: DM
Benzene	4.4	0.5		µg/L	1	6/27/2001	
Toluene	ND	0.5		µg/L	1	6/27/2001	
Ethylbenzene	7.7	0.5		µg/L	1	6/27/2001	
m,p-Xylene	53	1		µg/L	1	6/27/2001	
o-Xylene	1.3	0.5		µg/L	1	6/27/2001	

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

4 of 4

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited

Work Order: 0106014

Project: 2-1363; Conoco Nell Hall

Date: 29-Jun-01

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L	Analysis Date 6/26/2001			Prep Date:		
Client ID:		Run ID: GC-1_010626A		SeqNo:	39195		%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene		ND		0.5					
Ethylbenzene		.2547		0.5					J
m,p-Xylene		.2921		1					J
Methyl tert-Butyl Ether		ND		1					
o-Xylene		.3507		0.5					J
Toluene		.116		0.5					J

Sample ID: MB1	Batch ID: GC-1_010627	Test Code: SW8021B	Units: µg/L	Analysis Date 6/27/2001			Prep Date:		
Client ID:		Run ID: GC-1_010627A		SeqNo:	39239		%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene		ND		0.5					
Ethylbenzene		.118		0.5					J
m,p-Xylene		.1558		1					J
Methyl tert-Butyl Ether		ND		1					
o-Xylene		ND		0.5					
Toluene		.0835		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: 0106014
Project: 2-1363; Conoco Nell Hall

QC SUMMARY REPORT

Date: 29-Jun-01

Sample Matrix Spike									
Client ID: 0106014-03AMS		Batch ID: GC-1_010626		Test Code: SW8021B		Units: µg/L		Analysis Date 6/26/2001	
Client ID: SP 7		Run ID: GC-1_010626A		PQL		SPK value SPK Ref Val		SeqNo: 39196	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Prep Date:
Benzene	420	5	400	29.11	97.7%	70	130		
Ethylbenzene	532.6	5	400	81.25	112.8%	70	130		
m,p-Xylene	2918	10	800	2062	107.0%	70	130		
Methyl tert-Butyl Ether	396.6	10	400	1.349	98.8%	70	130		
o-Xylene	424	5	400	2.196	105.4%	70	130		
Toluene	429.3	5	400	11.43	104.5%	70	130		

Sample Matrix Spike									
Client ID: 0106014-03AMSD		Batch ID: GC-1_010626		Test Code: SW8021B		Units: µg/L		Analysis Date 6/26/2001	
Client ID: SP 7		Run ID: GC-1_010626A		PQL		SPK value SPK Ref Val		SeqNo: 39197	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Prep Date:
Benzene	412.5	5	400	29.11	95.9%	70	130	420	1.8% 8
Ethylbenzene	524.7	5	400	81.25	110.9%	70	130	532.6	1.5% 7
m,p-Xylene	2860	10	800	2062	99.8%	70	130	2918	2.0% 7
Methyl tert-Butyl Ether	395.6	10	400	1.349	98.6%	70	130	396.6	0.3% 6
o-Xylene	417.1	5	400	2.196	103.7%	70	130	424	1.6% 6
Toluene	419.1	5	400	11.43	101.9%	70	130	429.3	2.4% 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: On Site Technologies Limited
Work Order: 0106014
Project: 2-1363; Conoco Nell Hall

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 0106014-02AMS		Batch ID: GC-1_010627		Test Code: SW8021B		Units: µg/L		Analysis Date 6/27/2001		Prep Date:						
Client ID:	SP 8	Run ID:	0106014	Run ID:	GC-1_010627A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		818.1	10	800	22.78	99.4%	70	70	130							
Ethylbenzene		1299	10	800	491.4	100.9%	70	70	130							
m,p-Xylene		5471	20	1600	3944	95.4%	70	70	130							
Methyl tert-Butyl Ether		780.8	20	800	0	97.6%	70	70	130							
o-Xylene		834.8	10	800	4.008	103.8%	70	70	130							
Toluene		827.2	10	800	4.98	102.8%	70	70	130							
Sample ID: 0106014-02AMSD		Batch ID: GC-1_010627		Test Code: SW8021B		Units: µg/L		Analysis Date 6/27/2001		Prep Date:						
Client ID:	SP 8	Run ID:	0106014	Run ID:	GC-1_010627A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		807.8	10	800	22.78	98.1%	70	70	130							
Ethylbenzene		1281	10	800	491.4	98.7%	70	70	130							
m,p-Xylene		5382	20	1600	3944	89.9%	70	70	130							
Methyl tert-Butyl Ether		780.7	20	800	0	97.6%	70	70	130							
o-Xylene		826.7	10	800	4.008	102.8%	70	70	130							
Toluene		816.4	10	800	4.98	101.4%	70	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.

CLIENT: On Site Technologies Limited
Work Order: 0106014
Project: 2-1363; Conoco Nell Hall

Date: 29-Jun-01

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L		Analysis Date	6/26/2001	Prep Date:				
Client ID:	Run ID: GC-1_010626A				SeqNo:	39194					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.01	0.5	40	0	102.5%	80	120				
Ethylbenzene	42.36	0.5	40	0.2547	105.3%	80	120				
m,p-Xylene	82.97	1	80	0.2921	103.3%	80	120				
Methyl tert-Butyl Ether	40.18	1	40	0	100.5%	80	120				
o-Xylene	42.49	0.5	40	0.3507	105.3%	80	120				
Toluene	41.71	0.5	40	0.116	104.0%	80	120				

Sample ID: LCS WATER	Batch ID: GC-1_010627	Test Code: SW8021B	Units: µg/L		Analysis Date	6/27/2001	Prep Date:				
Client ID:	Run ID: GC-1_010627A				SeqNo:	39238					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.76	0.5	40	0	106.9%	80	120				
Ethylbenzene	43.26	0.5	40	0.1118	107.3%	80	120				
m,p-Xylene	84.62	1	80	0.1558	105.6%	80	120				
Methyl tert-Butyl Ether	41.6	1	40	0	104.0%	80	120				
o-Xylene	43.25	0.5	40	0	108.1%	80	120				
Toluene	42.8	0.5	40	0.0835	106.3%	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: 0106014
Project: 2-1363; Conoco Nell Hall

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0105		Batch ID: GC-1_010626		Test Code: SW8021B		Units: µg/L		Analysis Date 6/26/2001		Prep Date:		
Client ID:	Run ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.92	0.5	20	0	109.6%	85	115					
Ethylbenzene	22.96	0.5	20	0	114.8%	85	115					
m,p-Xylene	45.32	1	40	0	113.3%	85	115					
Methyl tert-Butyl Ether	20.94	1	20	0	104.7%	85	115					
o-Xylene	22.7	0.5	20	0	113.5%	85	115					
Toluene	22.42	0.5	20	0	112.1%	85	115					
1,4-Difluorobenzene	113.7	0	120	0	94.7%	70	130					
4-Bromochlorobenzene	129.3	0	120	0	107.7%	70	130					
Fluorobenzene	112	0	120	0	93.4%	70	130					
Sample ID: CCV2 BTEX_0105		Batch ID: GC-1_010626		Test Code: SW8021B		Units: µg/L		Analysis Date 6/26/2001		Prep Date:		
Client ID:	Run ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.31	0.5	20	0	101.5%	85	115					
Ethylbenzene	21.8	0.5	20	0	109.0%	85	115					
m,p-Xylene	42.4	1	40	0	106.0%	85	115					
Methyl tert-Butyl Ether	20.69	1	20	0	103.5%	85	115					
o-Xylene	21.35	0.5	20	0	106.7%	85	115					
Toluene	20.78	0.5	20	0	103.9%	85	115					
1,4-Difluorobenzene	113.3	0	120	0	94.4%	70	130					
4-Bromochlorobenzene	123.5	0	120	0	102.9%	70	130					
Fluorobenzene	111.6	0	120	0	93.0%	70	130					

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Date: 29-Jun-01

CLIENT: On Site Technologies Limited
Work Order: 0106014
Project: 2-1363; Conoco Nell Hall

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0105	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L					Analysis Date 6/26/2001	Prep Date:					
Client ID:	0106014	Run ID: GC-1_010626A		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.72	0.5	40	0		101.8%		85		115				
Ethylbenzene	41.76	0.5	40	0		104.4%		85		115				
m,p-Xylene	81.55	1	80	0		101.9%		85		115				
Methyl tert-Butyl Ether	40.37	1	40	0		100.9%		85		115				
o-Xylene	42.06	0.5	40	0		105.2%		85		115				
Toluene	41.18	0.5	40	0		103.0%		85		115				
1,4-Difluorobenzene	113.3	0	120	0		94.4%		70		130				
4-Bromochlorobenzene	123.2	0	120	0		102.7%		70		130				
Fluorobenzene	112.2	0	120	0		93.5%		70		130				
Sample ID: CCV1 BTEX_0105	Batch ID: GC-1_010627	Test Code: SW8021B	Units: µg/L					Analysis Date 6/27/2001	Prep Date:					
Client ID:	0106014	Run ID: GC-1_010627A		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.38	0.5	20	0		106.9%		85		115				
Ethylbenzene	22.26	0.5	20	0		111.3%		85		115				
m,p-Xylene	43.85	1	40	0		109.6%		85		115				
Methyl tert-Butyl Ether	20.24	1	20	0		101.2%		85		115				
o-Xylene	22.25	0.5	20	0		111.2%		85		115				
Toluene	21.87	0.5	20	0		109.3%		85		115				
1,4-Difluorobenzene	112.1	0	120	0		93.4%		70		130				
4-Bromochlorobenzene	122.8	0	120	0		102.4%		70		130				
Fluorobenzene	112.6	0	120	0		93.8%		70		130				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0106014
Project: 2-1363; Conoco Nell Hall

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV2_BTEX_0105		Batch ID: GC-1_010627		Test Code: SW8021B		Units: µg/L		Analysis Date 6/27/2001		Prep Date:					
Client ID:		Run ID:		GC-1_010627A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Analyte	Result														
Benzene	20.62	0.5	20	0	103.1%	85	115								
Ethylbenzene	21.42	0.5	20	0	107.1%	85	115								
m,p-Xylene	42.33	1	40	0	105.8%	85	115								
Methyl tert-Butyl Ether	20.54	1	20	0	102.7%	85	115								
o-Xylene	21.69	0.5	20	0	108.4%	85	115								
Toluene	21.2	0.5	20	0	106.0%	85	115								
1,4-Difluorobenzene	113	0	120	0	94.2%	70	130								
4-Bromochlorobenzene	121.3	0	120	0	101.1%	70	130								
Fluorobenzene	111.7	0	120	0	93.1%	70	130								
Sample ID: CCV3_BTEX_0105		Batch ID: GC-1_010627		Test Code: SW8021B		Units: µg/L		Analysis Date 6/27/2001		Prep Date:					
Client ID:		Run ID:		GC-1_010627A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Analyte	Result														
Benzene	39.57	0.5	40	0	98.9%	85	115								
Ethylbenzene	41.04	0.5	40	0	102.6%	85	115								
m,p-Xylene	80.35	1	80	0	100.4%	85	115								
Methyl tert-Butyl Ether	38.87	1	40	0	97.2%	85	115								
o-Xylene	41.33	0.5	40	0	103.3%	85	115								
Toluene	40.4	0.5	40	0	101.0%	85	115								
1,4-Difluorobenzene	112.8	0	120	0	94.0%	70	130								
4-Bromochlorobenzene	124.6	0	120	0	103.8%	70	130								
Fluorobenzene	111.9	0	120	0	93.2%	70	130								

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0106014
Project: 2-1363; Conoco Nell Hall
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0106014-01A	93.8	113	93.6
0106014-02A	94.8	102	93.6
0106014-02AMS	93	103	93.2
0106014-02AMSD	94	103	92.9
0106014-03A	92.6	102	93.6
0106014-03AMS	91.8	103	91.3
0106014-03AMSD	92	104	91.1
0106014-04A	91.3	112	90.6
0106015-01A	91.5	96.6	93.3
0106016-01A	93.4	102	94
0106016-02A	94	103	93.6
0106016-03A	93.8	101	92.9
0106016-04A	91.7	100	91.9
0106017-01A	96.8	104	95.8
0106018-01A	92.7	100	96
0106018-02A	94.3	105	94.4
0106037-01A	95.7	104	94
0106037-02A	89.8	96.3	89.7
0106037-03A	93.2	99.6	91.9
0106037-04A	91.5	97.9	91
0106037-05A	93.8	99.2	91.9
0106037-06A	95.7	102	94
0106037-07A	92.8	100	93.7
0106037-08A	94.1	98	93
0106037-09A	95.2	98.9	93.8
0106037-10A	95.6	103	94.1
0106037-11A	95.2	101	93.6

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

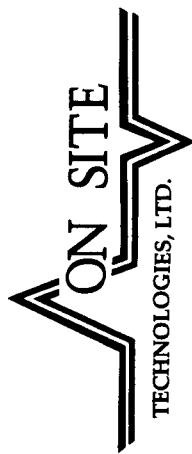
CLIENT: On Site Technologies Limited
Work Order: 0106014
Project: 2-1363; Conoco Nell Hall
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0106037-12A	94.1	109	92.5
0106037-13A	92.6	102	93.5
0106040-01A	94.9	103	93.1
0106040-02A	93.6	105	94.6
0106040-04A	94.5	101	94
0106040-05A	95.2	102	93.7
0106040-06A	93.6	101	94.2
CCV1 BTEX_01052	93.4	102	93.8
CCV2 BTEX_01052	94.2	101	93.1
CCV3 BTEX_01052	94	104	93.2
LCS WATER	94.3	105	92.9
MB1	94.9	104	94.3

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

* Surrogate recovery outside acceptance limits



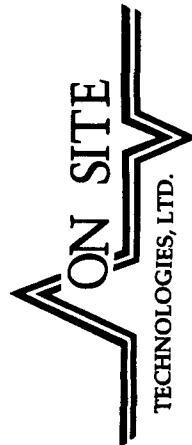
CHAIN OF CUSTODY RECORD

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

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Address _____ City, State, Zip _____		City, State, Zip _____		Telephone No. _____		Telephone No. _____	
PROJECT LOCATION: _____							
SAMPLER'S SIGNATURE: _____							
SAMPLE IDENTIFICATION							
		SAMPLE		DATE		TIME	
						MATRIX	
						PFES.	
Number of Containers _____							
ANALYSIS REQUESTED							
LAB ID							
Relinquished by: _____ Date _____	Date/Time _____		Received by: _____		Date/Time _____		
Relinquished by: _____ Date _____	Date/Time _____		Received by: _____		Date/Time _____		
Relinquished by: _____ Date _____	Date/Time _____		Received by: _____		Date/Time _____		
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FAX: (505) 327-1496

September 26, 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: 2-1363; Conoco Nell-Hall #1

Order No.: 0109027

Dear John Hagstrom,

On Site Technologies, LTD. received 4 samples on 9/19/2001 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 read "David Cox".

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

On Site Technologies, LTD.

Date: 26-Sep-01

CLIENT: On Site Technologies Limited
Project: 2-1363; Conoco Nell-Hall #1
Lab Order: 0109027

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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FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Nell-Hall #1
Work Order:	0109027	Client Sample ID:	SP 6
Lab ID:	0109027-01A	Matrix:	AQUEOUS
Project:	2-1363; Conoco Nell-Hall #1	Collection Date:	9/19/2001 9:20:00 AM
		COC Record:	11551

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: HR
Benzene	ND	0.5		µg/L	1	9/22/2001
Toluene	ND	0.5		µg/L	1	9/22/2001
Ethylbenzene	ND	0.5		µg/L	1	9/22/2001
m,p-Xylene	ND	1		µg/L	1	9/22/2001
o-Xylene	ND	0.5		µg/L	1	9/22/2001

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

I of 4

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

ANALYTICAL REPORT

Date: 26-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Nell-Hall #1
Work Order:	0109027	Client Sample ID:	SP 8
Lab ID:	0109027-02A	Matrix:	AQUEOUS
Project:	2-1363; Conoco Nell-Hall #1	Collection Date:	9/19/2001 9:45:00 AM
		COC Record:	11551

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: HR	
Benzene	ND	0.5	μg/L	1	9/23/2001	
Toluene	ND	0.5	μg/L	1	9/23/2001	
Ethylbenzene	ND	0.5	μg/L	1	9/23/2001	
m,p-Xylene	ND	1	μg/L	1	9/23/2001	
o-Xylene	ND	0.5	μg/L	1	9/23/2001	

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

2 of 4

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ANALYTICAL REPORT

Date: 26-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Nell-Hall #1
Work Order:	0109027	Client Sample ID:	SP 7
Lab ID:	0109027-03A	Matrix:	AQUEOUS
Project:	2-1363; Conoco Nell-Hall #1	Collection Date:	9/19/2001 10:15:00 AM
		COC Record:	11551

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: HR
Benzene	34	5		µg/L	10	9/22/2001
Toluene	10	5		µg/L	10	9/22/2001
Ethylbenzene	34	5		µg/L	10	9/22/2001
m,p-Xylene	740	10		µg/L	10	9/22/2001
o-Xylene	ND	5		µg/L	10	9/22/2001

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

3 of 4

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LAB: (505) 325-1556
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ANALYTICAL REPORT

Date: 26-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Nell-Hall #1
Work Order:	0109027	Client Sample ID:	MW 1
Lab ID:	0109027-04A	Matrix:	AQUEOUS
Project:	2-1363; Conoco Nell-Hall #1	Collection Date:	9/19/2001 10:35:00 AM
		COC Record:	11551

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID						Analyst: HR
		SW8021B				
Benzene	3.2	0.5		µg/L	1	9/22/2001
Toluene	ND	0.5		µg/L	1	9/22/2001
Ethylbenzene	6.8	0.5		µg/L	1	9/22/2001
m,p-Xylene	85	1		µg/L	1	9/22/2001
o-Xylene	1.8	0.5		µg/L	1	9/22/2001

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

4 of 4

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0109027
Project: 2-1363; Conoco Neil-Hall #1

Date: 26-Sep-01

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010922	Test Code: SW8021B	Units: µg/L	Analysis Date 9/22/2001			Prep Date:				
Client ID:	Run ID: GC-1_010922A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0521	0.5									J
Ethylbenzene	.2728	0.5									J
m,p-Xylene	ND	1									J
Methyl tert-Butyl Ether	.3639	1									J
o-Xylene	ND	0.5									J
Toluene	.1163	0.5									J

Sample ID: MB1	Batch ID: GC-1_010923	Test Code: SW8021B	Units: µg/L	Analysis Date 9/23/2001			Prep Date:				
Client ID:	Run ID: GC-1_010923A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0422	0.5									J
Ethylbenzene	ND	0.5									J
m,p-Xylene	ND	1									J
Methyl tert-Butyl Ether	ND	1									J
o-Xylene	ND	0.5									J
Toluene	.1251	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: 0109027
Project: 2-1363; Conoco Nell-Hall #1

QC SUMMARY REPORT

Sample Matrix Spike

Date: 26-Sep-01

Sample ID:	0109023-09AMSD	Batch ID:	GC-1_010922	Test Code:	SW8021B	Units: µg/L		Analysis Date:	9/22/2001		Prep Date:	
Client ID:	0109027	Run ID:	GC-1_010922A					SeqNo:	42585			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Benzene	2174	25	2000	94.19	104.0%	78	117					
Ethylbenzene	2143	25	2000	53.24	104.5%	79	121					
m,p-Xylene	4164	50	4000	73.06	102.3%	80	115					
Methyl tert-Butyl Ether	4784	50	2000	3178	80.3%	84	114					S
o-Xylene	2090	25	2000	10.14	104.0%	88	116					
Toluene	1980	25	2000	11.38	98.4%	88	113					

Sample ID:	0109023-09AMSD	Batch ID:	GC-1_010922	Test Code:	SW8021B	Units: µg/L		Analysis Date:	9/22/2001		Prep Date:	
Client ID:	0109027	Run ID:	GC-1_010922A					SeqNo:	42586			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Benzene	2150	25	2000	94.19	102.8%	78	117					
Ethylbenzene	2232	25	2000	53.24	108.9%	79	121					
m,p-Xylene	4337	50	4000	73.06	106.6%	80	115					
Methyl tert-Butyl Ether	5116	50	2000	3178	96.9%	84	114					R
o-Xylene	2181	25	2000	10.14	108.5%	88	116					
Toluene	2198	25	2000	11.38	109.3%	88	113					

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: 0109027
Project: 2-1363; Conoco Nell-Hall #1

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID:	0109025-11AMS	Batch ID:	GC-1_010923	Test Code:	SW8021B	Units:	µg/L	Analysis Date: 9/23/2001				Prep Date:
Client ID:	0109027	Run ID:	GC-1_010923A					SeqNo:	42597	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val				
Benzene	206.7	2.5	200	23	91.8%	78	117					
Ethylbenzene	487.5	2.5	200	280	103.7%	79	121					
m,p-Xylene	403.9	5	400	8.8	98.8%	80	115					
Methyl tert-Butyl Ether	227.5	5	200	0	113.8%	84	114					
o-Xylene	201	2.5	200	2	99.5%	88	116					
Toluene	201.5	2.5	200	23	89.3%	88	113					
Sample ID:	0109025-11AMSD	Batch ID:	GC-1_010923	Test Code:	SW8021B	Units:	µg/L	Analysis Date: 9/23/2001				Prep Date:
Client ID:	0109027	Run ID:	GC-1_010923A					SeqNo:	42598	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val				
Benzene	203.5	2.5	200	23	90.2%	78	117	206.7	1.6%	6		
Ethylbenzene	481.4	2.5	200	280	100.7%	79	121	487.5	1.2%	7		
m,p-Xylene	400.5	5	400	8.8	97.9%	80	115	403.9	0.9%	6		
Methyl tert-Butyl Ether	226.9	5	200	0	113.4%	84	114	227.5	0.3%	5		
o-Xylene	199.2	2.5	200	2	98.6%	88	116	201	0.9%	5		
Toluene	205.7	2.5	200	23	91.3%	88	113	201.5	2.0%	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.

CLIENT: On Site Technologies Limited
Work Order: 0109027
Project: 2-1363; Conoco Nell-Hall #1

Date: 26-Sep-01

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_010922	Test Code: SW8021B	Units: µg/L	Analysis Date 9/22/2001			Prep Date:				
Client ID:		Run ID: GC-1_010922A		SeqNo:	42583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.33	0.5	40	0.0521	103.2%	92	113				
Ethylbenzene	41.29	0.5	40	0.2728	102.5%	94	114				
m,p-Xylene	80.41	1	80	0	100.5%	92	111				
Methyl tert-Butyl Ether	39.52	1	40	0.3639	97.9%	91	112				
o-Xylene	42.36	0.5	40	0	105.9%	97	112				
Toluene	41.24	0.5	40	0.1163	102.8%	95	111				

Sample ID: LCS WATER	Batch ID: GC-1_010923	Test Code: SW8021B	Units: µg/L	Analysis Date 9/23/2001			Prep Date:				
Client ID:		Run ID: GC-1_010923A		SeqNo:	42595						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.24	0.5	40	0.0422	105.5%	92	113				
Ethylbenzene	42.53	0.5	40	0	106.3%	94	114				
m,p-Xylene	83.42	1	80	0	104.3%	92	111				
Methyl tert-Butyl Ether	39.69	1	40	0	99.2%	91	112				
o-Xylene	42.37	0.5	40	0	105.9%	97	112				
Toluene	41.99	0.5	40	0.1251	104.7%	95	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: 26-Sep-01

CLIENT: On Site Technologies Limited
Work Order: 0109027
Project: 2-1363; Conoco Nell-Hall #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0107 Batch ID: GC-1_010922 Test Code: SW8021B Units: µg/L							Analysis Date 9/22/2001 SeqNo: 42580							Prep Date:						
Client ID:	Run ID:	GC-1_010922A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual								
Analyte	Result																			
Benzene	41.8	0.5	40	0	104.5%	85	115													
Ethylbenzene	42.32	0.5	40	0	105.8%	85	115													
m,p-Xylene	83.15	1	80	0	103.9%	85	115													
Methyl tert-Butyl Ether	39.41	1	40	0	98.5%	85	115													
o-Xylene	42.33	0.5	40	0	105.8%	85	115													
Toluene	41.76	0.5	40	0	104.4%	85	115													
1,4-Difluorobenzene	113.2	0	120	0	94.3%	77	112													
4-Bromochlorobenzene	125.9	0	120	0	105.0%	88	116													
Fluorobenzene	113.5	0	120	0	94.6%	87	102													
Sample ID: CCV2 BTEX_0107 Batch ID: GC-1_010922 Test Code: SW8021B Units: µg/L							Analysis Date 9/22/2001 SeqNo: 42581							Prep Date:						
Client ID:	Run ID:	GC-1_010922A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual								
Analyte	Result																			
Benzene	42.04	0.5	40	0	105.1%	85	115													
Ethylbenzene	42.31	0.5	40	0	105.8%	85	115													
m,p-Xylene	82.9	1	80	0	103.6%	85	115													
Methyl tert-Butyl Ether	40.34	1	40	0	100.9%	85	115													
o-Xylene	42.2	0.5	40	0	105.5%	85	115													
Toluene	41.86	0.5	40	0	104.6%	85	115													
1,4-Difluorobenzene	113.5	0	120	0	94.6%	77	112													
4-Bromochlorobenzene	125.3	0	120	0	104.4%	88	116													
Fluorobenzene	114.2	0	120	0	95.1%	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: 0109027
Project: 2-1363; Conoco Nell-Hall #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0107		Batch ID: GC-1_010922		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/22/2001		Prep Date:					
Client ID:		Run ID:		GC-1_010922A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result													
Benzene		40.48	0.5		40	0			101.2%	85		115			
Ethylbenzene		40.59	0.5		40	0			101.5%	85		115			
m,p-Xylene		79.53	1		80	0			99.4%	85		115			
Methyl tert-Butyl Ether		40.1	1		40	0			100.3%	85		115			
o-Xylene		40.82	0.5		40	0			102.1%	85		115			
Toluene		40.26	0.5		40	0			100.6%	85		115			
1,4-Difluorobenzene		113	0		120	0			94.2%	77		112			
4-Bromochlorobenzene		126.3	0		120	0			105.2%	88		116			
Fluorobenzene		114.2	0		120	0			95.2%	87		102			
Sample ID: CCV1 BTEX_0109		Batch ID: GC-1_010923		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/23/2001		Prep Date:					
Client ID:		Run ID:		GC-1_010923A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result													
Benzene		40.18	0.5		40	0			100.5%	85		115			
Ethylbenzene		40.44	0.5		40	0			101.1%	85		115			
m,p-Xylene		79.25	1		80	0			99.1%	85		115			
Methyl tert-Butyl Ether		37.8	1		40	0			94.5%	85		115			
o-Xylene		40.29	0.5		40	0			100.7%	85		115			
Toluene		39.92	0.5		40	0			99.8%	85		115			
1,4-Difluorobenzene		113.5	0		120	0			94.6%	77		112			
4-Bromochlorobenzene		127.1	0		120	0			105.9%	88		116			
Fluorobenzene		114.8	0		120	0			95.6%	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: 0109027
Project: 2-1363; Conoco Nell-Hall #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV2_BTEX_0109	Batch ID: GC-1_010923	Test Code: SW8021B	Units: µg/L	Analysis Date 9/23/2001				Prep Date:		
Client ID:	Run ID:	GC-1_010923A		SeqNo:	42594			%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		
Benzene	40.86	0.5	40	0	102.2%	85	115			
Ethylbenzene	41.15	0.5	40	0	102.9%	85	115			
m,p-Xylene	80.56	1	80	0	100.7%	85	115			
Methyl tert-Butyl Ether	39.41	1	40	0	98.5%	85	115			
o-Xylene	41	0.5	40	0	102.5%	85	115			
Toluene	40.69	0.5	40	0	101.7%	85	115			
1,4-Difluorobenzene	113.5	0	120	0	94.6%	77	112			
4-Bromochlorobenzene	126.7	0	120	0	105.6%	88	116			
Fluorobenzene	114.7	0	120	0	95.6%	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: 0109027
Project: 2-1363; Conoco Nell-Hall #1
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0109001-01A	96	108	97.5
0109023-09A	95.4	105	96.4
0109023-09AMS	94.8	105	95
0109023-09AMSD	99	110	95.6
0109025-09A	95.9	106	96.9
0109025-10A	95.7	112	96.6
0109025-11A	94	98.8	93.1
0109025-11AMS	90.2	104	93.7
0109025-11AMSD	90.6	101	96.9
0109025-12A	97.7	104	100
0109025-13A	95.7	107	96.2
0109026-01A	92.8	108	94.8
0109026-02A	91.6	101	93.5
0109026-03A	95.5	107	97
0109027-01A	96	104	96.9
0109027-02A	95.6	105	96.7
0109027-03A	91.9	105	93.7
0109027-04A	92.5	106	93.6
0109028-01A	89.6	104	90.8
0109030-12A	95.8	105	97
0109030-19A	96.3	106	96.9
CCV1 BTEX_01070	94.3	105	94.6
CCV1 BTEX_01092	94.6	106	95.6
CCV2 BTEX_01070	94.6	104	95.1
CCV2 BTEX_01092	94.6	106	95.6
CCV3 BTEX_01070	94.2	105	95.2
LCS WATER	94.6	106	95.5

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

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies Limited
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QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
MB1	95.6	104	97

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

* Surrogate recovery outside acceptance limits



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