



**CONESTOGA-ROVERS
& ASSOCIATES**

6121 Indian School Rd., NE Suite 200
Albuquerque, NM, USA 87110
Telephone: (505) 884-0672 Fax: (505) 884-4932
<http://www.craworld.com>

March 27, 2012

3R-097

Reference No. 074925, 074926, 074927
074928, 074929, 074930
074932, 074933, 074934
074937, 074938, 074941
075035

Mr. Glenn von Gonten
New Mexico Oil Conservation Division
1220 South Saint Francis Dr.
Santa Fe, NM 87505

Dear Mr. Gonten:

Re: Groundwater Monitoring Reports - 2011

Enclosed, please find a copy of the reports listed below compiled by Conestoga-Rovers and Associates, Inc.

1. Farmington B Com No. 1E Quarterly Groundwater Monitoring Report - June, September, and December 2011
2. Faye Burdette No. 1 Quarterly Groundwater Monitoring Report - September 2011
3. Flora Vista No. 1 Quarterly Groundwater Monitoring Report - September and December 2011
4. Hampton No. 4M Annual Groundwater Monitoring Report - October 2011
5. Howell K No. 1 Quarterly Groundwater Monitoring Report - October 2011
6. Johnston Federal No. 4 Metering Station Annual Groundwater Monitoring Report - September 2011
7. Martin 34 No. 2 Additional Monitor Well Installation and Groundwater Monitoring Report
8. Nell Hall No. 1 Quarterly Groundwater Monitoring Report - June, September, and December 2011
9. Randleman No. 1 Quarterly Groundwater Monitoring Report - June, September, and December 2011
10. San Juan 27-5 No. 34A Annual Groundwater Monitoring Report - September 2011
11. Sategna No. 2E Quarterly Groundwater Monitoring Report - September 2011
12. Shepherd & Kelsey No. 1E Quarterly Groundwater Monitoring Report - September 2011
13. Wilmuth No. 1 Quarterly Groundwater Monitoring Report - June, October, and December 2011

Equal
Employment Opportunity
Employer



**CONESTOGA-ROVERS
& ASSOCIATES**

March 27, 2012

Reference No. 074925, 074926, 074927
074928, 074929, 074930
074932, 074933, 074934
074937, 074938, 074941
075035

- 2 -

If you have any questions or require additional information, please contact me at (505) 884-0672 or keblanchard@craworld.com.

Sincerely,
CONESTOGA-ROVERS & ASSOCIATES

Kelly E. Blanchard
Project Manager

JP/cjg/1
Encl.

cc: Brandon Powell, NMOCD
Terry Lauck, ConocoPhillips (electronic only)
Rose Carter, Landowner (Flora Vista No. 1 only)



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& ASSOCIATES**

6121 Indian School Road, NE Suite 200
Albuquerque, NM, USA 87110
Telephone: (505) 884-0672 Fax: (505) 884-4932
<http://www.craworld.com>

March 21, 2012

Reference No. 074940

Mr. Glenn Von Gonten
New Mexico Oil Conservation Division
1220 South Saint Francis Dr.
Santa Fe, NM 87505

Dear Mr. Von Gonten:

Re: Shepherd & Kelsey No. 1 Remediation Site Closure Request - July 22, 2010
Bloomfield, San Juan County, New Mexico
NMOCD No. 3R-097

As requested during a meeting held at your office on October 12, 2011, Conestoga-Rovers and Associates, Inc. has compiled an updated historical groundwater sampling analytical table for the ConocoPhillips Company (ConocoPhillips), Shepherd & Kelsey No. 1 site (Site) located in the city of Bloomfield, San Juan County, New Mexico. The analytical table was updated to include the numerical method detection limits as presented in the official laboratory analytical reports in place of the general notation of BDL for "below detection limits."

After reviewing all available databases, and contacting previous environmental consultants and analytical laboratories, analytical reports could not be located for the September 16, 1997 or the March 20, June 11, and October 6, 2003 groundwater sampling events. In addition to the updated analytical table, copies of the original laboratory analytical reports for the updated information and the Remediation Site Closure Request Letter submitted by ConocoPhillips on July 22, 2010 have been included. We hope this will be sufficient information for Site closure and no further action status to be considered.

Equal
Employment Opportunity
Employer



March 21, 2012

2

Reference No. 074940

If you have any questions or require additional information, please contact me at (505) 884-0672 or keblanchard@craworld.com.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Kelly E. Blanchard
Project Manager

KB/cjd/1
Encl.

cc: Terry Lauck, ConocoPhillips (electronic only)

TABLES

TABLE 1

GROUNDWATER ANALYTICAL RESULTS SUMMARY

MARCH 1997 - JULY 2008

CONOCOPHILLIPS COMPANY

SHEPHERD & KELSEY NO. 1

SAN JUAN COUNTY, NM

Well ID	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)
DG-MW	3/20/1997	50.3	10.2	6.3	43.9
	6/12/1997	< 0.2	< 0.2	< 0.2	0.2
	9/16/1997	BDL	BDL	BDL	BDL
	12/5/1997	< 0.2	< 0.2	0.2	0.2
	3/13/1998	< 0.5	< 0.5	< 0.5	< 1.5
	6/9/1998	< 0.5	< 0.5	< 0.5	< 1.5
	9/14/1998	< 1.0	< 1.0	< 1.0	< 3.0
	6/15/2001	< 0.5	< 0.5	< 0.5	< 1.5
	10/6/2003	BDL	BDL	BDL	BDL
MW-NW	8/20/2007	< 0.5	< 0.7	0.9	7
UG-1	6/14/2001	< 0.5	< 0.5	< 0.5	< 1.5
	8/20/2007	< 0.5	< 0.7	< 0.8	< 0.8
UG-2	6/14/2001	< 0.5	< 0.5	< 0.5	< 1.5
	8/20/2007	< 0.5	< 0.7	< 0.8	< 0.8
MW-NE	6/15/2001	9.6	< 0.5	8.3	1.9
	9/19/2001	24	0.7	18	26.5
	12/13/2001	10	< 0.5	6	4.7
	3/12/2002	25	< 0.5	24	32
	6/19/2002	12	< 0.5	5.9	5.4
	9/17/2002	13	< 0.5	11	10.8
	3/20/2003	5.8	1.9	12	4.7
	6/11/2003	2.3	0.8	3.1	2.8
	10/6/2003	5	BDL	3.6	2.3
	8/20/2007	< 0.5	< 0.7	< 0.8	< 0.8
DG-1	6/15/2001	< 0.5	< 0.5	54	285
	9/19/2001	< 0.5	< 0.5	< 0.5	< 1.5
	12/13/2001	< 0.5	< 0.5	< 0.5	< 1.5
	3/12/2002	< 0.5	< 0.5	< 0.5	< 1.5
	6/19/2002	< 0.5	< 0.5	< 0.5	< 1.5
	9/17/2002	< 0.5	< 0.5	< 0.5	< 1.5
	3/20/2003	BDL	BDL	BDL	BDL
	6/11/2003	BDL	BDL	BDL	BDL
	10/6/2003	BDL	BDL	BDL	BDL
	8/20/2007	< 0.5	< 0.7	< 0.8	< 0.8

TABLE 1

GROUNDWATER ANALYTICAL RESULTS SUMMARY
MARCH 1997 - JULY 2008
CONOCOPHILLIPS COMPANY
SHEPHERD & KELSEY NO. 1
SAN JUAN COUNTY, NM

Well ID	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)
SB-12	6/14/2001	42	5.5	72	370
	9/19/2001	111	< 5.0	120	810
	12/13/2001	28	< 0.5	63	322.9
	3/12/2002	64	< 0.5	56	211.4
	6/19/2002	130	< 0.5	76	380
	9/17/2002	40	< 2.5	51	245.1
	3/20/2003	53	10	41	213
	6/11/2003	370	BDL	19	53.8
	10/6/2003	6.1	BDL	30	182
	1/30/2004	12	< 0.5	16	74.2
	4/26/2004	45	< 0.5	21	100
	5/10/2005	24	< 0.7	18	140
	11/21/2005	< 0.5	< 0.7	14	68
	2/17/2006	7	< 0.7	4	12
	5/16/2006	12	< 0.7	1	3
	8/1/2006	< 0.5	< 0.7	< 0.8	< 0.8
	11/16/2006	< 0.5	< 0.7	< 0.8	< 0.8
	2/21/2007	< 0.5	< 0.7	3	1
	5/14/2007	< 0.5	< 0.7	2	< 0.8
	8/20/2007	< 0.5	< 0.7	< 0.8	< 0.8
	11/6/2007	< 0.5	< 0.7	< 0.8	< 0.8
	1/15/2008	< 0.5	< 0.5	< 0.5	< 0.5
	3/17/2008	< 0.5	< 0.5	< 0.5	< 0.5
	7/24/2008	< 0.5	< 0.5	< 0.5	< 0.5
NMWQCC Standards		10 (µg/L)	750 (µg/L)	750 (µg/L)	620 (µg/L)

Explanation

BDL = Below laboratory detection limits; detection limit not specified

<0.5 = Below laboratory detection limits

NMWQCC = New Mexico Water Quality Control Commission

mg/L = micrograms per liter (parts per billion)

Constituents in **BOLD** are in excess of NMWQCC groundwater quality standards

CONOCOPHILLIPS REQUEST FOR SITE CLOSURE AND NO FURTHER ACTION STATUS



Terry S. Lauck
Site Manager

ConocoPhillips Company
Risk Management & Remediation
420 South Keeler Avenue
Bartlesville, OK 74004
Phone: 918.661.0935
E-mail: terry.s.lauck@conocophillips.com

Mr. Glenn von Gonten
State of New Mexico
Oil Conservation Division
Environmental Bureau
1220 South Saint Francis Drive
Santa Fe, NM 87505

July 22, 2010

Re: Formal Request for Site Closure and No Further Action Status

Site Name: Shepherd & Kelsey No. 1

OCD Number: 3RP-97-0

API Number: 30-045-07802

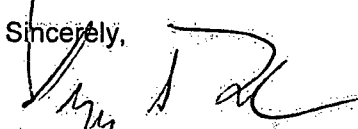
Dear Mr. von Gonten:

ConocoPhillips Company (ConocoPhillips) submits this letter as a formal request for site closure and no further action status for the former ConocoPhillips-operated Shepherd & Kelsey No. 1 natural gas production well site (Site), located on private property in San Juan County.

The last sampling event conducted at this site was on July 24, 2008. The July 2008 sampling event represented the ninth consecutive quarter of results indicating concentrations of BTEX in monitor well SB-12 below New Mexico Water Quality Control Commission groundwater standards. Further information can be referenced in the "Quarterly Monitoring and Site Closure Report," originally submitted to the NMOCD in May of 2009 and attached for reference.

ConocoPhillips requests no further action be granted by NMOCD. Upon approval of closure by the NMOCD, ConocoPhillips will plug and abandon all monitoring wells at the Site. Since the gas well was plugged and abandoned in June of 2006 and the Site is located on private property leased by ConocoPhillips, timeliness of this decision is important so that ConocoPhillips can terminate the lease arrangements. I look forward to your response in the near future.

Sincerely,



Terry S. Lauck

Cc: Brandon Powell, NMOCD
Kelly Blanchard, Tetra Tech, Inc.

Attachments (1)

ANALYTICAL DATA - 6/12/97

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Larry Trujillo*
Company: *On Site Technologies, Ltd. c/o Conoco*
Address: *612 E. Murray Drive*
City, State: *Farmington, NM 87401*

Date: *17-Jun-97*
COC No.: *6424*
Sample No.: *14941*
Job No.: *4-1362*

Project Name: *Conoco - Shepard & Kelsey 1*
Project Location: *S & K 1*
Sampled by: *LT* Date: *12-Jun-97* Time: *10:44*
Analyzed by: *DC* Date: *13-Jun-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	0.2	ug/L		

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved By: *[Signature]*
Date: *6/17/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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

ANALYTICAL DATA - 12/5/97

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Larry Trujillo*
Company: *On Site Technologies, Ltd. c/o Conoco, Inc.*
Address: *612 E. Murray Drive*
City, State: *Farmington, NM 87401*

Date: *5-Dec-97*
COC No.: *6751*
Sample No.: *17002*
Job No.: *2-1362*

Project Name: *Conoco, Inc. - Shepard & Kelsey #1*
Project Location: *S&K #1*
Sampled by: *LT* Date: *2-Dec-97* Time: *NR*
Analyzed by: *HR* Date: *3-Dec-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	0.4	ug/L		

ND - Not Detected at Limit of Quantitation

Method - *SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography*

Approved By: *[Signature]*
Date: *12/5/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Larry Trujillo**
 Company: **On Site Technologies, Ltd. c/o Conoco, Inc.**
 Address: **612 E. Murray Drive**
 City, State: **Farmington, NM 87401**

Date: **11-Dec-97**
 COC No.: **6751**
 Sample ID.: **17002**
 Job No.: **2-1362**

Project Name: **Conoco, Inc. - Shepard and Kelsey #1**
 Project Location: **S&K #1**
 Sampled by: **LT**
 Analyzed by: **HR**

Date: **2-Dec-97** Time: **NR**
 Date: **10-Dec-97**

API RP-45 Laboratory Analysis

Parameter	Result	Unit of Measure		Result	Unit of Measure	
Cations						
Sodium Na	576	mg/L		25.05	me/L	
Calcium Ca	268	mg/L		13.37	me/L	
Magnesium Mg	55.2	mg/L		4.54	me/L	
Potassium K	4.79	mg/L		0.12	me/L	
Anions						
Chloride Cl	61	mg/L		1.72	me/L	
Sulfate SO4	1356	mg/L		28.23	me/L	
Carbonate CO3	< 1	mg/L		< 0.01	me/L	
Bicarbonate HCO3	852	mg/L		13.96	me/L	
Hydroxide OH	< 1	mg/L		< 0.01	me/L	
Sulfide S2	NA	mg/L		NA	me/L	
Iron Fe	< 0.05	mg/L		< 0.01	me/L	
Total Dissolved Solids			Cation-Anion Balance 0.82 Difference Cation-Anion, me/L 87.01 Total Cation-Anion, me/L 0.9 % Difference Cation-Anion Comments NA: Not Analyzed			
Calculated, Sum of Cation/Anion	3173	mg/L				
pH	7.24					
Resistivity	2.9586	ohm-m				
Specific Gravity	1.0030					
Total Hardness as CaCO3	897	mg/L				

Approved by: *[Signature]*
 Date: **12/11/97**

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



ON SITE
TECHNOLOGIES, LTD.

QUALITY ASSURANCE REPORT

Date Analyzed: 3-Dec-97

Internal QC No.: 0559-STD

Surrogate QC No.: 0556-STD

Reference Standard QC No.: 0529/30-QC

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

<i>Parameter</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>RPD</i>	<i>Limit</i>
<i>Benzene</i>	ppb	20.0	19.3	3	15%
<i>Toluene</i>	ppb	20.0	20.2	1	15%
<i>Ethylbenzene</i>	ppb	20.0	20.4	2	15%
<i>m,p-Xylene</i>	ppb	40.0	39.6	1	15%
<i>o-Xylene</i>	ppb	20.0	20.3	1	15%

<i>Parameter</i>	<i>1 - Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>RPD</i>	<i>Limit</i>
<i>Benzene</i>	131	100	(39-150)	2	20%
<i>Toluene</i>	106	101	(46-148)	2	20%
<i>Ethylbenzene</i>	102	91	(32-160)	2	20%
<i>m,p-Xylene</i>	93	89	(35-145)	2	20%
<i>o-Xylene</i>	98	95	(35-145)	2	20%

	S1 Percent <i>Recovered</i>	S2 Percent <i>Recovered</i>	Laboratory Identification	S1 Percent <i>Recovered</i>	S2 Percent <i>Recovered</i>
<i>Laboratory Identification</i>					
<i>Limit Percent Recovered</i>	(70-130)		<i>Limit Percent Recovered</i>	(70-130)	
17002-6751	94				
				JH 12/11/97	(mc) 12/5/97

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

API RP-45 Water Analysis

Date: 10-Dec-97

Quality Control Sample

Parameter	Laboratory Identification	True Value	Analyzed Value	Unit of Measure	% Diff	Limit % Diff
Sodium, Na	0563-QC	2.60	2.41	mg/L	-7	10
Calcium, Ca	0465-QC	2.18	2.20	mg/L	1	10
Magnesium, Mg	0465-QC	1.14	1.22	mg/L	7	10
Potassium, K	0563-QC	1.97	1.83	mg/L	-7	10
Chloride, Cl	0563-QC	85	82	mg/L	-3	10
Sulfate, SO ₄	0563-QC	96	89	mg/L	-8	10
Alkalinity	0563-QC	163	170	mg/L	4	10
Iron, Fe	0495-QC	1.00	1.01	mg/L	1	10
pH	0563-QC	9.14	9.26		1	10
Conductivity	0563-QC	900	898	uS/cm	0	15

Matrix Spike

Parameter	Laboratory Identification	Analyzed Value	Matrix Spike	Spike Value	Unit of Measure	Spike Recovery
Sodium, Na	17050-6759	1.34	0.50	1.90	mg/L	103%
Calcium, Ca	17051-6759	1.38	0.50	1.94	mg/L	103%
Magnesium, Mg	17051-6759	1.06	0.50	1.62	mg/L	104%
Potassium, K	17051-6759	1.62	0.50	2.14	mg/L	101%
Iron, Fe	17050-6759	0.00	0.50	0.50	mg/L	100%

Method Blank

Parameter	Laboratory Identification	Analyzed Value	Unit of Measure
Sodium, Na	LF-Blank	<0.2	mg/L
Calcium, Ca	LF-Blank	<0.05	mg/L
Magnesium, Mg	LF-Blank	<0.05	mg/L
Potassium, K	LF-Blank	<0.05	mg/L
Iron, Fe	LF-Blank	<0.05	mg/L
Chloride, Cl	LF-Blank	<3 X DL	mg/L
Sulfate, SO ₄	LF-Blank	<1	mg/L
Sulfide, SO ₂	LF-Blank	NA	mg/L
Conductivity	LF-Blank	<2	uS/cm

(12) JHC
12/11/97 12/11/97

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



DEC 22 1997

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

December 18, 1997

Mr. David Cox
ON SITE TECHNOLOGIES
612 East Murray
Farmington, NM 87401

The following report contains analytical results for the sample received at Southern Petroleum Laboratories (SPL) on December 4, 1997. The sample was assigned to Certificate of Analysis No.(s) 9712231 and analyzed for all parameters as listed on the chain of custody.

Any data flag or quality control exception associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s).

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

for 
Sonia West
Client Services Representative



HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 97-12-231

Approved for Release by:

for: Bernadette A. Lin
Sonia West, Client Services Representative

12-18-97
Date

Greg Grandits
Laboratory Director

Idelis Williams
Quality Assurance Officer

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9712231-01

On Site Technologies
612 East Murray
Farmington, NM 87401
ATTN: David Cox

P.O.#
6751
12/18/97

PROJECT: PAH Anal./Lab ID: 17002-6751
SITE: Shepard & Kelsey #1
SAMPLED BY: On Site Technologies
SAMPLE ID: S & K #1

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 12/02/97 10:09:00
DATE RECEIVED: 12/04/97

ANALYTICAL DATA				
PARAMETER	RESULTS	PQL*	UNITS	
Naphthalene	0.1	0.1	ug/L	
Acenaphthylene	ND	0.1	ug/L	
Acenaphthene	ND	0.3	ug/L	
Fluorene	ND	0.3	ug/L	
Phenanthrene	ND	0.1	ug/L	
Anthracene	ND	0.1	ug/L	
Fluoranthene	ND	0.1	ug/L	
Pyrene	ND	0.1	ug/L	
Chrysene	ND	0.1	ug/L	
Benzo (a) anthracene	ND	0.1	ug/L	
Benzo (b) fluoranthene	ND	0.1	ug/L	
Benzo (k) fluoranthene	ND	0.1	ug/L	
Benzo (a) pyrene	ND	0.1	ug/L	
Dibenzo (a,h) anthracene	ND	0.1	ug/L	
Benzo (g,h,i) perylene	ND	0.1	ug/L	
Indeno (1,2,3-cd) pyrene	ND	0.1	ug/L	
SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1-Fluoronaphthalene	0.20 ug/L	85	50	150
Phenanthrene d-10	0.20 ug/L	107	50	150

ANALYZED BY: KA DATE/TIME: 12/09/97 17:51:36
EXTRACTED BY: PC DATE/TIME: 12/05/97 08:00:00
METHOD: 8310 Polynuclear Aromatic Hydrocarbons
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS: Lab ID: 17002-6751

QUALITY ASSURANCE: These analyses are performed in accordance
with EPA guidelines for quality assurance.

QUALITY CONTROL
DOCUMENTATION



* SPL BATCH QUALITY CONTROL REPORT **
Method 8310 ***

PAGE

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous
Units: ug/L

Batch Id: 1971210010500

BLANK SPIKES

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(**) (Advisory)	
			Result	Recovery	Result	Recovery		RPD	Recovery Range
			<1>	<4>	<1>	<5>		Max.	
NAPHTHALENE	ND	0.50	0.37	74.0	0.39	78.0	5.26	30	33 - 122
ACENAPHTHYLENE	ND	0.50	0.35	70.0	0.38	76.0	8.22	30	42 - 138
ACENAPHTHENE	ND	0.50	0.37	74.0	0.37	74.0	0	30	25 - 123
FLUORENE	ND	0.50	0.38	76.0	0.37	74.0	2.67	30	19 - 142
PHENANTHRENE	ND	0.50	0.39	78.0	0.41	82.0	5.00	30	40 - 121
ANTHRACENE	ND	0.50	0.34	68.0	0.35	70.0	2.90	30	32 - 121
FLUORANTHENE	ND	0.50	0.39	78.0	0.41	82.0	5.00	30	51 - 115
PYRENE	ND	0.50	0.41	82.0	0.44	88.0	7.06	30	45 - 117
CHRYSENE	ND	0.50	0.44	88.0	0.47	94.0	6.59	30	44 - 122
BENZO (A) ANTHRACENE	ND	0.50	0.39	78.0	0.41	82.0	5.00	30	57 - 118
BENZO (B) FLUORANTHENE	ND	0.50	0.42	84.0	0.44	88.0	4.65	30	62 - 121
BENZO (K) FLUORANTHENE	ND	0.50	0.41	82.0	0.43	86.0	4.76	30	63 - 117
BENZO (A) PYRENE	ND	0.50	0.42	84.0	0.44	88.0	4.65	30	42 - 120
DIBENZO (A,H) ANTHRACENE	ND	0.50	0.40	80.0	0.43	86.0	7.23	30	53 - 118
BENZO (G,H,I) PERYLENE	ND	0.50	0.44	88.0	0.46	92.0	4.44	30	51 - 116
INDENO (1,2,3-CD) PYRENE	ND	0.50	0.42	84.0	0.44	88.0	4.65	30	60 - 116

Analyst: KA/

Sequence Date: 12/08/97

Method Blank File ID:

Sample File ID:

Blank Spike File ID: 971208A\010-1001

Matrix Spike File ID:

Matrix Spike Duplicate File ID:

* = Values Outside QC Range. * = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

Relative Percent Difference = | (<4> - <5>) | / [(<4> + <5>) x 0.5] x 100

(**) = Source: SPL Temporary Limits

SAMPLES IN BATCH(SPL ID):

9712274-01C 9712274-03C 9712274-07C 9712231-01A
9712274-02C 9712273-01A 9712189-01A 9712198-04D
9712274-04C 9712274-05C 9712274-06C

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST

ANALYTICAL DATA - 3/13/98

OFF: (505) 325-5667



LAB: (505) 325-1556

March 25, 1998

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

RE: 2-1362

Order No.: 9803045

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 3/13/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

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

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

Sincerely,

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

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 25-Mar-98

CLIENT: Conoco, Inc.
Project: 2-1362
Lab Order: 9803045

CASE NARRATIVE

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

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

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	Conoco, Inc.	Client Sample Info:	Shephard & Kelsey 1
Work Order:	9803045	Client Sample ID:	MW #1
Lab ID:	9803045-01A	Matrix:	AQUEOUS
Project:	2-1362	Collection Date:	3/13/98 1:35:00 PM
		COC#:	6907

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	3/19/98
Toluene	ND	0.5		µg/L	1	3/19/98
Ethylbenzene	ND	0.5		µg/L	1	3/19/98
m,p-Xylene	ND	1		µg/L	1	3/19/98
o-Xylene	ND	0.5		µg/L	1	3/19/98
Surr: Fluorobenzene	93.4	70-130		%REC	1	3/19/98
Surr: 1,4-Difluorobenzene	93.9	70-130		%REC	1	3/19/98
Surr: 4-Bromochlorobenzene	92.6	70-130		%REC	1	3/19/98

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: Conoco, Inc.
Work Order: 9803045
Project: 2-1362

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98				Prep Date:			
Client ID:	9803045	Run ID:	GC-1_980319A	SeqNo: 93							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1309	0.5									J
Ethylbenzene	.1039	0.5									J
m,p-Xylene	.2979	1									J
o-Xylene	.1068	0.5									J
Toluene	.1636	0.5									J

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: Conoco, Inc.
Work Order: 9803045
Project: 2-1362

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9803032-06AMS		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98			Prep Date:	
Client ID:		9803045		Run ID:		GC-1_980319A		SeqNo: 94				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	942.9	10	800	105.3	104.7%	56	128					
Ethylbenzene	921.7	10	800	92.88	103.6%	78	107					
m,p-Xylene	2403	20	1600	765.4	102.4%	67	118					
o-Xylene	957.2	10	800	124	104.2%	78	107					
Toluene	937.4	10	800	108.7	103.6%	74	116					

Sample ID: 9803032-06AMSD		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98			Prep Date:	
Client ID: 9803045		Run ID: GC-1_980319A				SeqNo: 95						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	891.1	10	800	105.3	98.2%	56	128	942.9	5.6%	15		
Ethylbenzene	893.1	10	800	92.88	100.0%	78	107	921.7	3.2%	15		
m,p-Xylene	2296	20	1600	765.4	95.7%	67	118	2403	4.6%	15		
o-Xylene	907.8	10	800	124	98.0%	78	107	957.2	5.3%	15		
Toluene	886.7	10	800	108.7	97.2%	74	116	937.4	5.6%	15		

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: Conoco, Inc.

Work Order: 9803045

Project: 2-1362

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98			Prep Date:	
Client ID:		9803045		Run ID: GC-1_980319A				SeqNo: 92				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	41.51	0.5	40	0.1309	103.4%	39	150					
Ethylbenzene	42.39	0.5	40	0.1039	105.7%	32	160					
m,p-Xylene	80.93	1	80	0.2979	100.8%	35	145					
o-Xylene	41.37	0.5	40	0.1068	103.2%	35	145					
Toluene	41.16	0.5	40	0.1636	102.5%	46	148					

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: Conoco, Inc.
Work Order: 9803045
Project: 2-1362

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30	Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98	Prep Date:						
Client ID: 9803045	Run ID: GC-1_980319A	SeqNo: 87									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.65	0.5	20	0	103.3%	85	115				
Ethylbenzene	20.65	0.5	20	0	103.2%	85	115				
m,p-Xylene	39.56	1	40	0	98.9%	85	115				
o-Xylene	20.62	0.5	20	0	103.1%	85	115				
Toluene	20.4	0.5	20	0	102.0%	85	115				
1,4-Difluorobenzene	93.88	0	100	0	93.9%	70	130				
4-Bromochlorobenzene	90.08	0	100	0	90.1%	70	130				
Fluorobenzene	92.88	0	100	0	92.9%	70	130				

Sample ID: CCV2 QC0529/30	Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98	Prep Date:						
Client ID: 9803045	Run ID: GC-1_980319A	SeqNo: 88									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.63	0.5	20	0	108.2%	85	115				
Ethylbenzene	22.12	0.5	20	0	110.6%	85	115				
m,p-Xylene	41.81	1	40	0	104.5%	85	115				
o-Xylene	21.67	0.5	20	0	108.3%	85	115				
Toluene	21.33	0.5	20	0	106.6%	85	115				
1,4-Difluorobenzene	94.01	0	100	0	94.0%	70	130				
4-Bromochlorobenzene	91.89	0	100	0	91.9%	70	130				
Fluorobenzene	92.94	0	100	0	92.9%	70	130				

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

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

B - Analyte detected in the associated Method Blank

CLIENT: Conoco, Inc.
 Work Order: 9803045
 Project: 2-1362

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98			Prep Date:			
Client ID: 9803045		Run ID: GC-1_980319A			SeqNo: 89						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.44	0.5	20	0	102.2%	85	115				
Ethylbenzene	20.82	0.5	20	0	104.1%	85	115				
m,p-Xylene	39.42	1	40	0	98.6%	85	115				
o-Xylene	20.48	0.5	20	0	102.4%	85	115				
Toluene	20.22	0.5	20	0	101.1%	85	115				
1,4-Difluorobenzene	93.73	0	100	0	93.7%	70	130				
4-Bromochlorobenzene	89.69	0	100	0	89.7%	70	130				
Fluorobenzene	92.81	0	100	0	92.8%	70	130				

Sample ID: CCV4 QC0529/30		Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98			Prep Date:			
Client ID: 9803045		Run ID: GC-1_980319A			SeqNo: 90						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.52	0.5	20	0	102.6%	85	115				
Ethylbenzene	23.27	0.5	20	0	116.4%	85	115				
m,p-Xylene	42.37	1	40	0	105.9%	85	115				
o-Xylene	22.3	0.5	20	0	111.5%	85	115				
Toluene	20.38	0.5	20	0	101.9%	85	115				
1,4-Difluorobenzene	93.65	0	100	0	93.7%	70	130				
4-Bromochlorobenzene	90.57	0	100	0	90.6%	70	130				
Fluorobenzene	92.76	0	100	0	92.8%	70	130				

S ✓
 CONFIRMED
 BY CCV5
 @ 3/25/98

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

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

B - Analyte detected in the associated Method Blank

CLIENT: Conoco, Inc.
Work Order: 9803045
Project: 2-1362

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV5 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98			Prep Date:	
Client ID:		9803045		Run ID: GC-1_980319A		SeqNo: 91						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	21.33	0.5	20	0	106.6%	85	115					
Ethylbenzene	21.29	0.5	20	0	106.5%	85	115					
m,p-Xylene	40.57	1	40	0	101.4%	85	115					
o-Xylene	21.49	0.5	20	0	107.4%	85	115					
Toluene	21.12	0.5	20	0	105.6%	85	115					
1,4-Difluorobenzene	93.61	0	100	0	93.6%	70	130					
4-Bromochlorobenzene	87.33	0	100	0	87.3%	70	130					
Fluorobenzene	92.92	0	100	0	92.9%	70	130					

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

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

B - Analyte detected in the associated Method Blank

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

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

ANALYTICAL DATA - 6/9/98

OFF: (505) 325-5667



LAB: (505) 325-1556

June 16, 1998

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

RE: 2-1362; Conoco

Order No.: 9806032

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 6/10/98 for the analyses presented in the following report.

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

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

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

Sincerely,

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

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Project: 2-1362; Conoco
Lab Order: 9806032

CASE NARRATIVE

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

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

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Jun-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Shephard & Kelsey #1
Work Order:	9806032	Client Sample ID:	#1
Lab ID:	9806032-01A	Matrix:	AQUEOUS
Project:	2-1362; Conoco	Collection Date:	6/9/98 11:43:00 AM
		COC Record:	5136

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	6/14/98
Toluene	ND	0.5		µg/L	1	6/14/98
Ethylbenzene	ND	0.5		µg/L	1	6/14/98
m,p-Xylene	ND	1		µg/L	1	6/14/98
o-Xylene	ND	0.5		µg/L	1	6/14/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806032
Project: 2-1362; Conoco

QC SUMMARY REPORT
Method Blank

Sample ID: MB1	Batch ID: GC-1_980614	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/14/98	Prep Date:						
Client ID:	9806032	Run ID: GC-1_980614B		SeqNo: 2996							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0426	0.5									J
Ethylbenzene	.0628	0.5									J
m,p-Xylene	.1828	1									J
o-Xylene	.0816	0.5									J
Toluene	.1025	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: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806032
Project: 2-1362; Conoco

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9806014-02AMS	Batch ID: GC-1_980614	Test Code: SW8020A	Units: µg/L			Analysis Date: 6/14/98			Prep Date:		
Client ID:	9806032	Run ID:	GC-1_980614B			SeqNo:		2997			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	813	10	800	4.052	101.1%	56	128				
Ethylbenzene	812.9	10	800	4.38	101.1%	78	107				
m,p-Xylene	1577	20	1600	17.67	97.5%	67	118				
o-Xylene	806.4	10	800	2.606	100.5%	78	107				
Toluene	806.6	10	800	3.922	100.3%	74	116				

Sample ID: 9806014-02AMSD	Batch ID: GC-1_980614	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/14/98				Prep Date:			
Client ID:	9806032	Run ID:	GC-1_980614B	SeqNo: 2998							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	788.5	10	800	4.052	98.1%	56	128	813	3.1%	12	
Ethylbenzene	811.3	10	800	4.38	100.9%	78	107	812.9	0.2%	11	
m,p-Xylene	1559	20	1600	17.67	96.3%	67	118	1577	1.2%	10	
o-Xylene	791.3	10	800	2.606	98.6%	78	107	806.4	1.9%	14	
Toluene	783.7	10	800	3.922	97.5%	74	116	806.6	2.9%	14	

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806032
Project: 2-1362; Conoco

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS		Batch ID: GC-1_980614		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/14/98			Prep Date:	
Client ID:		9806032		Run ID: GC-1_980614B				SeqNo: 2995				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	40.87	0.5	40	0.0426	102.1%	56	128					
Ethylbenzene	40.4	0.5	40	0.0628	100.8%	78	107					
m,p-Xylene	78.11	1	80	0.1828	97.4%	67	118					
o-Xylene	40.26	0.5	40	0.0816	100.5%	78	107					
Toluene	40.14	0.5	40	0.1025	100.1%	74	116					

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806032
Project: 2-1362; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980614	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/14/98			Prep Date:			
Client ID: 9806032		Run ID: GC-1_980614B			SeqNo: 2992						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.32	0.5	20	0	106.6%	85	115				
Ethylbenzene	21.51	0.5	20	0	107.6%	85	115				
m,p-Xylene	41.34	1	40	0	103.3%	85	115				
o-Xylene	21.34	0.5	20	0	106.7%	85	115				
Toluene	21.1	0.5	20	0	105.5%	85	115				
1,4-Difluorobenzene	92.58	0	100	0	92.6%	70	130				
4-Bromochlorobenzene	80.52	0	100	0	80.5%	70	130				
Fluorobenzene	93.34	0	100	0	93.3%	70	130				

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980614	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/14/98			Prep Date:			
Client ID: 9806032		Run ID: GC-1_980614B			SeqNo: 2993						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.83	0.5	20	0	104.1%	85	115				
Ethylbenzene	22.1	0.5	20	0	110.5%	85	115				
m,p-Xylene	43.85	1	40	0	109.6%	85	115				
o-Xylene	21.84	0.5	20	0	109.2%	85	115				
Toluene	21.56	0.5	20	0	107.8%	85	115				
1,4-Difluorobenzene	92.73	0	100	0	92.7%	70	130				
4-Bromochlorobenzene	79.29	0	100	0	79.3%	70	130				
Fluorobenzene	92.28	0	100	0	92.3%	70	130				

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806032
Project: 2-1362; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980614		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/14/98			Prep Date:	
Client ID:		9806032		Run ID: GC-1_980614B				SeqNo: 2994				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	42.1	0.5	40	0	105.3%	85	115					
Ethylbenzene	42.85	0.5	40	0	107.1%	85	115					
m,p-Xylene	81.5	1	80	0	101.9%	85	115					
o-Xylene	41.48	0.5	40	0	103.7%	85	115					
Toluene	41.48	0.5	40	0	103.7%	85	115					
1,4-Difluorobenzene	92.78	0	100	0	92.8%	70	130					
4-Bromochlorobenzene	80.77	0	100	0	80.8%	70	130					
Fluorobenzene	92.47	0	100	0	92.5%	70	130					

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806032

Project: 2-1362; Conoco

Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ
9806014-01A	92.3	79.7	93.4
9806014-02AMS	92.4	75.1	92.7
9806014-02AMSD	92.8	80.4	92.5
9806019-01A	93.8	78.8	93.3
9806019-02A	93	77.9	93.3
9806030-02A	93.6	79.3	93
9806030-03A	93.8	85.6	93.1
9806031-01A	90.9	85.3	91.5
9806031-02A	90.1	85.3	90.6
9806032-01A	93.1	86.7	93.6
9806033-01A	93.4	84.7	93.2
9806034-01A	90.7	83.9	91.5
CCV1 QC0529/30	92.6	80.5	93.3
CCV2 QC0529/30	92.7	79.3	92.3
CCV3 QC0529/30	92.8	80.8	92.5
LCS	92.4	79.8	92.9
MB1	93	80.9	93.4

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

5100

Date: 6/10/99Page 1 of 1

TECHNOLOGIES, LTD.

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

Purchase Order No.:		Job No. <u>2-1362</u>		Name <u>Larry Trujillo</u>		Title		
SEND INVOICE TO	Name <u>Larry Trujillo</u>		Company <u>Conoco</u>		Dept.		Mailing Address	
	Address		City, State, Zip		Telephone No.		Telefax No.	
	Sampling Location: <u>Shepherd & Kelsey #1</u>		SAMPLER		ANALYSIS REQUESTED			
	Sampler: <u>Larry Trujillo</u>		LAB ID					
SAMPLE IDENTIFICATION		DATE	TIME	MATRIX	PRES.	LAB ID		
#1		<u>6/10/99</u>	<u>1143</u>	<u>H₂O</u>	<u>HCl</u>	<u>2</u>	<u>9806032-01A</u>	
Relinquished by: <u>Jerry Trujillo</u>		Date/Time <u>6/10/99 0800</u>		Received by: <u>Jerry</u>		Date/Time <u>6/10/99 0800</u>		
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		
Authorized by: _____		Date _____		Special Instructions:				
(Client Signature Must Accompany Request)								

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



CHAIN OF CUSTODY RECORD

3150

Date: 4/10/01

Page 1 of 1

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

Purchase Order No.:		Job No. 21002		Name: [Signature]		Title:			
SEND INVOICE TO	Name: [Signature]		Company:		Mailing Address:		REPORT RESULTS TO		
	Company:		Dept.:		City, State, Zip:				
	Address:		Telephone No.:		Telefax No.:				
	City, State, Zip:								
Sampling Location:				ANALYSIS REQUESTED					
Sampler:				Number of Containers / 10					
SAMPLE IDENTIFICATION		SAMPLE						LAB ID	
		DATE	TIME					MATRIX	PRES.
1		4/10/01	10:00					0.1	0.1
Relinquished by: [Signature]		Date/Time: 4/10/01		Received by: [Signature]		Date/Time: 4/10/01			
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	Special Instructions:		
Authorized by: _____ (Client Signature <u>Must</u> Accompany Request)				Date: _____					

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

ANALYTICAL DATA - 9/14/98

OFF: (505) 325-5667



LAB: (505) 325-1556

September 25, 1998

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

RE: 2-1362; Conoco

Order No.: 9809030

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 9/14/98 for the analyses presented in the following report.

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

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

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

Sincerely,

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

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
Project: 2-1362; Conoco
Lab Order: 9809030

CASE NARRATIVE

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

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

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	S&K #1
Work Order:	9809030	Client Sample ID:	MW-1
Lab ID:	9809030-01A	Matrix:	AQUEOUS
Project:	2-1362; Conoco	Collection Date:	9/14/98 11:10:00 AM
		COC Record:	5553

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/L	1	9/21/98
Toluene	ND	1		µg/L	1	9/21/98
Ethylbenzene	ND	1		µg/L	1	9/21/98
m,p-Xylene	ND	2		µg/L	1	9/21/98
o-Xylene	ND	1		µg/L	1	9/21/98

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809030
Project: 2-1362; Conoco

QC SUMMARY REPORT
Method Blank

Sample ID: MB1		Batch ID: GC-1_980921		Test Code: SW8020A		Units: µg/L		Analysis Date 9/21/98			Prep Date:	
Client ID:		9809030		Run ID: GC-1_980921A		SeqNo: 6730						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	.0421	1									J	
Ethylbenzene	.0623	1									J	
m,p-Xylene	.1705	2									J	
o-Xylene	.1247	1									J	
Toluene	.1509	1									J	

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
 Work Order: 9809030
 Project: 2-1362; Conoco

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9809031-02AMS	Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date 9/21/98				Prep Date:			
Client ID:	9809030	Run ID:	GC-1_980921A	SeqNo: 6731							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	191.1	5	200	0.4255	95.3%	56	128				
Ethylbenzene	211.5	5	200	0.4985	105.5%	78	107				
m,p-Xylene	414.5	10	400	2.556	103.0%	67	118				
o-Xylene	201.8	5	200	0.3315	100.8%	78	107				
Toluene	204.9	5	200	1.194	101.8%	74	116				

Sample ID: 9809031-02AMSD		Batch ID: GC-1_980921		Test Code: SW8020A		Units: µg/L		Analysis Date 9/21/98		Prep Date:	
Client ID:		9809030		Run ID: GC-1_980921A		SeqNo: 6732					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	184.1	5	200	0.4255	91.8%	56	128	191.1	3.7%	12	
Ethylbenzene	206.4	5	200	0.4985	103.0%	78	107	211.5	2.4%	11	
m,p-Xylene	404.8	10	400	2.556	100.6%	67	118	414.5	2.4%	10	
o-Xylene	196.7	5	200	0.3315	98.2%	78	107	201.8	2.6%	14	
Toluene	199.3	5	200	1.194	99.1%	74	116	204.9	2.7%	14	

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809030
Project: 2-1362; Conoco

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date: 9/21/98	Prep Date:						
Client ID:	9809030	Run ID: GC-1_980921A	SeqNo: 6729								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.51	1	40	0.0421	98.7%	56	128				
Ethylbenzene	43.12	1	40	0.0623	107.6%	78	107				
m,p-Xylene	85.18	2	80	0.1705	106.3%	67	118				
o-Xylene	42.33	1	40	0.1247	105.5%	78	107				
Toluene	41.78	1	40	0.1509	104.1%	74	116				

S ✓
9/25/98
HR
9/28/98

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
 Work Order: 9809030
 Project: 2-1362; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07	Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date: 9/21/98	Prep Date:						
Client ID: 9809030	Run ID: GC-1_980921A	SeqNo: 6726									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.22	1	20	0	101.1%	85	115				
Ethylbenzene	22.23	1	20	0	111.2%	85	115				
m,p-Xylene	43.6	2	40	0	109.0%	85	115				
o-Xylene	21.64	1	20	0	108.2%	85	115				
Toluene	21.52	1	20	0	107.6%	85	115				
1,4-Difluorobenzene	88.91	0	100	0	88.9%	70	130				
4-Bromochlorobenzene	79.55	0	100	0	79.5%	70	130				
Fluorobenzene	85.36	0	100	0	85.4%	70	130				

Sample ID: CCV2 QC0606/07	Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date: 9/21/98	Prep Date:						
Client ID: 9809030	Run ID: GC-1_980921A	SeqNo: 6727									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.84	1	20	0	99.2%	85	115				
Ethylbenzene	21.74	1	20	0	108.7%	85	115				
m,p-Xylene	42.67	2	40	0	106.7%	85	115				
o-Xylene	20.81	1	20	0	104.1%	85	115				
Toluene	20.98	1	20	0	104.9%	85	115				
1,4-Difluorobenzene	88.7	0	100	0	88.7%	70	130				
4-Bromochlorobenzene	69.55	0	100	0	69.6%	70	130				S
Fluorobenzene	85.39	0	100	0	85.4%	70	130				

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809030
Project: 2-1362; Conoco

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_980921		Test Code: SW8020A		Units: µg/L		Analysis Date 9/21/98		Prep Date:	
Client ID:		9809030		Run ID: GC-1_980921A				SeqNo: 6728			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.58	1	40	0	93.9%	85	115				
Ethylbenzene	41.94	1	40	0	104.8%	85	115				
m,p-Xylene	82.28	2	80	0	102.9%	85	115				
o-Xylene	40.08	1	40	0	100.2%	85	115				
Toluene	40.64	1	40	0	101.6%	85	115				
1,4-Difluorobenzene	87.81	0	100	0	87.8%	70	130				
4-Bromochlorobenzene	63.38	0	100	0	63.4%	70	130				S
Fluorobenzene	84.05	0	100	0	84.0%	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

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809030
Project: 2-1362; Conoco
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ
9809027-01A	88.5	71	85
9809027-02A	86	58.3 *	82.6
9809027-03A	87.8	58.5 *	84.3
9809027-05A	87.2	67.7 *	84.1
9809028-01A	79	39.9 *	75.7
9809029-01A	86.3	58 *	83.2
9809030-01A	88.8	64 *	84.6
9809031-01A	86.8	55.5 *	80
9809031-02A	89.3	70.7	85.1
9809031-02AMS	88.3	66.9 *	84.2
9809031-02AMSD	87.7	63.8 *	83.8
9809031-03A	82.7	40.8 *	78
9809033-01A	83.4	44.6 *	79.4
9809034-01A	89.9	71	85.8
9809034-02A	83.8	61.4 *	82.2
9809034-03A	89.3	76	85.4
9809034-04A	89.3	69.8 *	85.3
9809034-05A	87.6	55.7 *	83.1
9809035-01A	78.8	36.9 *	74.3
9809035-02A	87.3	53.2 *	82.7
CCV1 QC0606/07	88.9	79.5	85.4
CCV2 QC0606/07	88.7	69.6 *	85.4
CCV3 QC0606/07	87.8	63.4 *	84
LCS WATER	89.3	81.8	85.5
MB1	88.3	74.6	84.8

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

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

5553

Date: 9/14/94

Page 1 of 1

TECHNOLOGIES, LTD.

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

Purchase Order No.:		Job No. 2-1562		Name Larry T. [Signature]		Title		
SEND INVOICE TO	Name Larry T. [Signature]		Company Corroco		Mailing Address		City, State, Zip	
	Address		City, State, Zip		Telephone No.		Telefax No.	
	Sampling Location: S & K I		Sampler: Larry T. [Signature]		ANALYSIS REQUESTED			
	SAMPLE IDENTIFICATION		SAMPLE DATE TIME MATRIX PRES.		Number of Containers		LAB ID	
Sample #1		9/14/94 11:11 1120 401		2		✓		
Relinquished by: [Signature]		Date/Time 9/14/94 1:46		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		
Authorized by: (Client Signature Must Accompany Request)		Date		Special Instructions:				

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

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

ANALYTICAL DATA - 6/14/01

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: 4-1427; Conoco Shephard & Kelsey 1

Order No.: 0106016

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 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: 04-Jul-01

CLIENT: On Site Technologies Limited
Project: 4-1427; Conoco Shephard & Kelsey 1
Lab Order: 0106016

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: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106016	Client Sample ID:	UG 1
Lab ID:	0106016-01A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsey 1	Collection Date:	6/14/2001 2:25:00 PM
		COC Record:	11342

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

1 of 4

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

ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106016	Client Sample ID:	UG 2
Lab ID:	0106016-02A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsey 1	Collection Date:	6/14/2001 2:50:00 PM
		COC Record:	11342

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

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

2 of 4

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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

ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106016	Client Sample ID:	MW-NE
Lab ID:	0106016-03A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsey 1	Collection Date:	6/14/2001 3:10:00 PM
		COC Record:	11342

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	9.6	0.5		µg/L	1	6/27/2001
Toluene	ND	0.5		µg/L	1	6/27/2001
Ethylbenzene	8.3	0.5		µg/L	1	6/27/2001
m,p-Xylene	1.9	1		µg/L	1	6/27/2001
o-Xylene	ND	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

3 of 4

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LAB: (505) 325-1556
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ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106016	Client Sample ID:	SB 12
Lab ID:	0106016-04A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsey 1	Collection Date:	6/14/2001 4:00:00 PM
		COC Record:	11342

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	42	2.5		µg/L	5	6/26/2001
Toluene	5.5	2.5		µg/L	5	6/26/2001
Ethylbenzene	72	2.5		µg/L	5	6/26/2001
m,p-Xylene	370	5		µg/L	5	6/26/2001
o-Xylene	ND	2.5		µg/L	5	6/26/2001

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

4 of 4

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EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited
 Work Order: 0106016
 Project: 4-1427; Conoco Shephard & Kelsey 1

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:	0106016	Run ID: GC-1_010626A	SeqNo: 39195								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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:	0106016	Run ID:	GC-1_010627A		SeqNo: 39239							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
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.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey I

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0106014-03AMS	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/26/2001				Prep Date:			
Client ID:	0106016	Run ID:	GC-1_010626A	SeqNo: 39196							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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 ID: 0106014-03AMSD	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L	Analysis Date 6/26/2001				Prep Date:			
Client ID:	0106016	Run ID: GC-1_010626A	SeqNo: 39197								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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: 0106016
Project: 4-1427; Conoco Shephard & Kelsey I

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:		0106016	Run ID: GC-1_010627A			SeqNo: 39240					
Analyte	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	130				
Ethylbenzene	1299	10	800	491.4	100.9%	70	130				
m,p-Xylene	5471	20	1600	3944	95.4%	70	130				
Methyl tert-Butyl Ether	780.8	20	800	0	97.6%	70	130				
o-Xylene	834.8	10	800	4.008	103.8%	70	130				
Toluene	827.2	10	800	4.98	102.8%	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:		0106016	Run ID: GC-1_010627A			SeqNo: 39241					
Analyte	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	130	818.1	1.3%	8	
Ethylbenzene	1281	10	800	491.4	98.7%	70	130	1299	1.4%	7	
m,p-Xylene	5382	20	1600	3944	89.9%	70	130	5471	1.6%	7	
Methyl tert-Butyl Ether	780.7	20	800	0	97.6%	70	130	780.8	0.0%	6	
o-Xylene	826.7	10	800	4.008	102.8%	70	130	834.8	1.0%	6	
Toluene	816.4	10	800	4.98	101.4%	70	130	827.2	1.3%	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: 04-Jul-01

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey 1

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:	0106016	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:	0106016	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	0.118	107.8%	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	106.8%	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: 04-Jul-01

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey 1

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:	0106016	Run ID: GC-1_010626A	SeqNo: 39191								
Analyte	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:	0106016	Run ID:	GC-1_010626A			SeqNo:		39192			
Analyte	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

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey 1

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:		0106016		Run ID: GC-1_010626A		SeqNo:		39193				
Analyte	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: 0106016		Run ID: GC-1_010627A				SeqNo: 39235						
Analyte	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: 0106016
Project: 4-1427; Conoco Shephard & Kelsey 1

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:		0106016	Run ID: GC-1_010627A			SeqNo: 39236					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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:		0106016	Run ID: GC-1_010627A			SeqNo: 39237					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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

On Site Technologies, LTD.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey
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

* Surrogate recovery outside acceptance limits

/

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey
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
MBI	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

ANALYTICAL DATA - 6/15/01

OFF: (505) 325-5667
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July 21, 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: 4-1362; Conoco Shephard & Kelsey 1

Order No.: 0106018

Dear John Hagstrom,

On Site Technologies, LTD. received 2 samples on 6/15/2001 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 "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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LAB: (505) 325-1556
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On Site Technologies, LTD.

Date: 21-Jul-01

CLIENT: On Site Technologies Limited
Project: 4-1362; Conoco Shephard & Kelsey 1
Lab Order: 0106018

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: 21-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106018	Client Sample ID:	DG 1
Lab ID:	0106018-01A	Matrix:	AQUEOUS
Project:	4-1362; Conoco Shephard & Kelsey 1	Collection Date:	6/15/2001 9:30:00 AM
		COC Record:	11346

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	6/27/2001
Toluene	ND	0.5		µg/L	1	6/27/2001
Ethylbenzene	54	0.5		µg/L	1	6/27/2001
m,p-Xylene	210	1		µg/L	1	6/27/2001
o-Xylene	75	0.5		µg/L	1	6/27/2001

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

1 of 2

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

ANALYTICAL REPORT

Date: 21-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106018	Client Sample ID:	DG-MW
Lab ID:	0106018-02A	Matrix:	AQUEOUS
Project:	4-1362; Conoco Shephard & Kelsey 1	Collection Date:	6/15/2001 9:50:00 AM
		COC Record:	11346

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

2 of 2

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EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey 1

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:	0106018	Run ID:	GC-1_010626A			SeqNo:		39195			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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:	0106018	Run ID:	GC-1_010627A		SeqNo:		39239				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited
 Work Order: 0106018
 Project: 4-1429; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0106014-03AMS		Batch ID: GC-1_010626		Test Code: SW8021B		Units: µg/L		Analysis Date 6/26/2001			Prep Date:	
Client ID:		0106018		Run ID: GC-1_010626A				SeqNo: 39196				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
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 ID: 0106014-03AMSD	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L	Analysis Date 6/26/2001				Prep Date:			
Client ID:	0106018	Run ID:	GC-1_010626A	SeqNo: 39197							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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: 0106018
Project: 4-1429; Conoco Shephard & Kelsey I

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: 0106018		Run ID: GC-1_010627A				SeqNo: 39240					
Analyte	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	130				
Ethylbenzene	1299	10	800	491.4	100.9%	70	130				
m,p-Xylene	5471	20	1600	3944	95.4%	70	130				
Methyl tert-Butyl Ether	780.8	20	800	0	97.6%	70	130				
o-Xylene	834.8	10	800	4.008	103.8%	70	130				
Toluene	827.2	10	800	4.98	102.8%	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: 0106018		Run ID: GC-1_010627A				SeqNo: 39241					
Analyte	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	130	818.1	1.3%	8	
Ethylbenzene	1281	10	800	491.4	98.7%	70	130	1299	1.4%	7	
m,p-Xylene	5382	20	1600	3944	89.9%	70	130	5471	1.6%	7	
Methyl tert-Butyl Ether	780.7	20	800	0	97.6%	70	130	780.8	0.0%	6	
o-Xylene	826.7	10	800	4.008	102.8%	70	130	834.8	1.0%	6	
Toluene	816.4	10	800	4.98	101.4%	70	130	827.2	1.3%	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: 04-Jul-01

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey 1

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:	0106018	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:	0106018	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	0.118	107.8%	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	106.8%	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: 04-Jul-01

CLIENT: On Site Technologies Limited
 Work Order: 0106018
 Project: 4-1429; Conoco Shephard & Kelsey 1

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:	0106018	Run ID:	GC-1_010626A	SeqNo: 39191							
Analyte	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:	0106018	Run ID:	GC-1_010626A			SeqNo:		39192			
Analyte	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

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey 1

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: 0106018		Run ID: GC-1_010626A				SeqNo: 39193					
Analyte	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:		0106018		Run ID: GC-1_010627A		SeqNo: 39235						
Analyte	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: 0106018
Project: 4-1429; Conoco Shephard & Kelsey 1

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: 0106018		Run ID: GC-1_010627A		SeqNo: 39236							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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:		0106018		Run ID: GC-1_010627A		SeqNo: 39237						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
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

On Site Technologies, LTD.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey
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

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey
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

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

11046

Date: 1/15/01

Page: 1 of 1

Purchase Order No.:		Project No. <u>11179</u>		REPORT RESULTS TO	Name <u>John H. Thompson</u>		Title						
SEND INVOICE TO	Name <u>John H. Thompson</u>		Company										
	Company		Mailing Address										
	Address		City, State, Zip										
	City, State, Zip		Telephone No.		Telefax No.								
PROJECT LOCATION: <u>CRADOCK SHERMAN & KELSEY 1</u>				Number of Containers	ANALYSIS REQUESTED								
SAMPLER'S SIGNATURE: <u>[Signature]</u>					LAB ID								
SAMPLE IDENTIFICATION		SAMPLE											
	DATE	TIME	MATRIX										PRES.
<u>1</u>	<u>1/15/01</u>	<u>0930</u>	<u>1</u>										<u>1</u>
<u>2</u>	<u>1/15/01</u>	<u>0930</u>	<u>1</u>										<u>1</u>
Relinquished by: <u>[Signature]</u>		Date/Time <u>1/15/01</u>		Received by: <u>[Signature]</u>		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: <u>[Signature]</u> Date <u>1/15/01</u> (Client Signature <u>Must</u> Accompany Request)				Special Instructions / Remarks:									

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

ANALYTICAL DATA - 9/19/01

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



LAB: (505) 325-1556
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: 4-1427; Conoco Shephard & Kelsy #1

Order No.: 0109026

Dear John Hagstrom,

On Site Technologies, LTD. received 3 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", is 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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LAB: (505) 325-1556
FAX: (505) 327-1496

On Site Technologies, LTD.

Date: 26-Sep-01

CLIENT: On Site Technologies Limited
Project: 4-1427; Conoco Shephard & Kelsy #1
Lab Order: 0109026

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: 26-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey #1
Work Order:	0109026	Client Sample ID:	MW NE
Lab ID:	0109026-01A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsey #1	Collection Date:	9/19/2001 12:00:00 PM
		COC Record:	11550

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	24	0.5		µg/L	1	9/22/2001
Toluene	0.7	0.5		µg/L	1	9/22/2001
Ethylbenzene	18	0.5		µg/L	1	9/22/2001
m,p-Xylene	21	1		µg/L	1	9/22/2001
o-Xylene	5.5	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

1 of 3

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ANALYTICAL REPORT

Date: 26-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey #1
Work Order:	0109026	Client Sample ID:	SB 12
Lab ID:	0109026-02A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsy #1	Collection Date:	9/19/2001 12:28:00 PM
		COC Record:	11550

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	110	5		µg/L	10	9/23/2001
Toluene	ND	5		µg/L	10	9/23/2001
Ethylbenzene	120	5		µg/L	10	9/23/2001
m,p-Xylene	810	10		µg/L	10	9/23/2001
o-Xylene	ND	5		µg/L	10	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 3

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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:	Shephard & Kelsey #1
Work Order:	0109026	Client Sample ID:	DG 1
Lab ID:	0109026-03A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsy #1	Collection Date:	9/19/2001 12:40:00 PM
		COC Record:	11550

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

3 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 26-Sep-01

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #1

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:	0109026	Run ID: GC-1_010922A	SeqNo: 42584								
Analyte	Result	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									
Methyl tert-Butyl Ether	.3639	1									J
o-Xylene	ND	0.5									
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:	0109026	Run ID: GC-1_010923A	SeqNo: 42596								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0422	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
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.

Date: 26-Sep-01

CLIENT: On Site Technologies Limited
 Work Order: 0109026
 Project: 4-1427; Conoco Shephard & Kelsy #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0109023-09AMS	Batch ID: GC-1_010922	Test Code: SW8021B	Units: µg/L			Analysis Date 9/22/2001			Prep Date:		
Client ID:	0109026	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:	0109026	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	2174	1.1%	6	
Ethylbenzene	2232	25	2000	53.24	108.9%	79	121	2143	4.0%	7	
m,p-Xylene	4337	50	4000	73.06	106.6%	80	115	4164	4.1%	6	
Methyl tert-Butyl Ether	5116	50	2000	3178	96.9%	84	114	4784	6.7%	5	R
o-Xylene	2181	25	2000	10.14	108.5%	88	116	2090	4.3%	5	
Toluene	2198	25	2000	11.38	109.3%	88	113	1980	10.5%	6	R

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #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:		0109026	Run ID: GC-1_010923A			SeqNo: 42597					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	206.7	2.5	200	23	91.8%	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:		0109026	Run ID: GC-1_010923A			SeqNo: 42598					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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.

Date: 26-Sep-01

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #1

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:	0109026	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:	0109026	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: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #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			Prep Date:		
Client ID:		0109026	Run ID: GC-1_010922A			SeqNo: 42580					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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			Prep Date:		
Client ID:		0109026	Run ID: GC-1_010922A			SeqNo: 42581					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #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:		0109026		Run ID: GC-1_010922A		SeqNo: 42582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
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: 0109026		Run ID: GC-1_010923A				SeqNo: 42593						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
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: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #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: 0109026		Run ID: GC-1_010923A				SeqNo: 42594					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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

On Site Technologies, LTD.

Date: 26-Sep-01

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy
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
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy
Test No: SW8021B

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



CHAIN OF CUSTODY RECORD

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

Date: 9/19/01
Page: 1 of 1

Purchase Order No.:		Project No. <u>0-10077</u>		REPORT RESULTS TO	Name <u>Mr. [unclear]</u>		Title					
SEND INVOICE TO	Name <u>Mr. [unclear]</u>				Company							
	Company		Dept.		Mailing Address							
	Address				City, State, Zip							
	City, State, Zip				Telephone No.		Telefax No.					
PROJECT LOCATION: <u>Concrete [unclear] RELEASE #1</u>				Number of Containers	ANALYSIS REQUESTED							
SAMPLER'S SIGNATURE: <u>[Signature]</u>					LAB ID							
SAMPLE IDENTIFICATION		SAMPLE										
DATE	TIME	MATRIX	PRES.									
<u>9/19/01</u>	<u>12:00</u>	<u>100</u>	<u>100</u>									
<u>9/19/01</u>	<u>12:00</u>	<u>100</u>	<u>100</u>									
<u>9/19/01</u>	<u>12:00</u>	<u>100</u>	<u>100</u>									
Relinquished by: <u>[Signature]</u>		Date/Time: <u>9/19/01</u>		Received by: <u>[Signature]</u>		Date/Time: <u>9/19/01</u>						
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: <u>[Signature]</u> Date <u>9/19/01</u> (Client Signature <u>Must</u> Accompany Request)				Special Instructions / Remarks:								

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



CHAIN OF CUSTODY RECORD

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

11550

Date: 1/19/01

Page: 1 of 1

Purchase Order No.:		Project No. <u>01-12345</u>		Name		Title							
SEND INVOICE TO	Name			Company		Mailing Address							
	Company		Dept.		City, State, Zip		Telephone No.						
	Address			Telefax No.									
	City, State, Zip												
PROJECT LOCATION:				REPORT RESULTS TO	ANALYSIS REQUESTED								
SAMPLER'S SIGNATURE:					LAB ID								
SAMPLE IDENTIFICATION													
DATE TIME MATRIX PRES.													
				Number of Containers									
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 <u>1/19/01</u> (Client Signature Must Accompany Request)					Special Instructions / Remarks:								

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

ANALYTICAL DATA - 12/13/01

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: 2-1362; Conoco Shephard & Kelsey 1

Order No.: 0112015

Dear John Hagstrom,

On Site Technologies, LTD. received 3 samples 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

PO. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BUILDING 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: 17-Dec-01

CLIENT: On Site Technologies Limited
Project: 2-1362; Conoco Shephard & Kelsey 1
Lab Order: 0112015

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: 17-Dec-01

Client:	On Site Technologies Limited	Client Sample Info:	Conoco Shephard & Kelsey 1
Work Order:	0112015	Client Sample ID:	MW-NE
Lab ID:	0112015-01A	Matrix:	AQUEOUS
Project:	2-1362; Conoco Shephard & Kelsey 1	Collection Date:	12/13/2001 12:15:00 PM
		COC Record:	11695

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	10	0.5		µg/L	1	12/15/2001
Toluene	ND	0.5		µg/L	1	12/15/2001
Ethylbenzene	6	0.5		µg/L	1	12/15/2001
m,p-Xylene	4.1	1		µg/L	1	12/15/2001
o-Xylene	0.6	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 3

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EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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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 Shephard & Kelsey 1
Work Order:	0112015	Client Sample ID:	SB-12
Lab ID:	0112015-02A	Matrix:	AQUEOUS
Project:	2-1362; Conoco Shephard & Kelsey 1	Collection Date:	12/13/2001 12:35:00 PM
		COC Record:	11695

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	28	0.5		µg/L	1	12/15/2001
Toluene	ND	0.5		µg/L	1	12/15/2001
Ethylbenzene	63	0.5		µg/L	1	12/15/2001
m,p-Xylene	320	1		µg/L	1	12/15/2001
o-Xylene	2.9	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	Surrogate - Surrogate

2 of 3

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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 Shephard & Kelsey 1
Work Order:	0112015	Client Sample ID:	DG-1
Lab ID:	0112015-03A	Matrix:	AQUEOUS
Project:	2-1362; Conoco Shephard & Kelsey 1	Collection Date:	12/13/2001 12:55:00 PM
		COC Record:	11695

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

3 of 3

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: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 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:	0112015	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
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: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 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:	0112015	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				S
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				

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: 0112015		Run ID: GC-1_011215A				SeqNo: 45896					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1812	25	2000	20	89.6%	70	130	1866	2.9%	6	S
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: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 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:	0112015	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
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: 0112015
 Project: 2-1362; Conoco Shephard & Kelsey 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:	0112015	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:	0112015	Run ID:	GC-1_011215A	SeqNo: 45889							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 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:		0112015		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:	0112015	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: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 1

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:	0112015	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

On Site Technologies, LTD.

Date: 17-Dec-01

CLIENT: On Site Technologies Limited
Work Order: 0112015
Project: 2-1362; Conoco Shephard & Kelsey I
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



CHAIN OF CUSTODY RECORD

11095

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Date: _____

Page: _____ of _____

Purchase Order No.:		Project No.:		REPORT RESULTS TO	Name		Title																					
SEND INVOICE TO	Name				Company																							
	Company				Mailing Address																							
	Address				City, State, Zip																							
	City, State, Zip				Telephone No.		Telefax No.																					
PROJECT LOCATION:				Number of Containers	ANALYSIS REQUESTED																							
SAMPLER'S SIGNATURE:																												
SAMPLE IDENTIFICATION																												
DATE													TIME				MATRIX				PRES.				LAB ID			
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 _____ (Client Signature <u>Must</u> Accompany Request)								Special Instructions / Remarks:																				

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

To Re-order Call 325-9600 or Fax 325-9764 alphaGraphics® FORM # 01

ANALYTICAL DATA - 3/12/02

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



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

March 18, 2002

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: 2-1362; Conoco Shephard & Kelsey 1

Order No.: 0203022

Dear John Hagstrom,

On Site Technologies, LTD. received 3 samples on 03/12/2002 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



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FAX: (505) 327-1496

On Site Technologies, LTD.

Date: 18-Mar-02

CLIENT: On Site Technologies Limited
Project: 2-1362; Conoco Shephard & Kelsey 1
Lab Order: 0203022

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: 18-Mar-02

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0203022	Client Sample ID:	MW NE
Lab ID:	0203022-01A	Matrix:	AQUEOUS
Project:	2-1362; Conoco Shephard & Kelsey 1	Collection Date:	03/12/2002 10:45:00 AM
		COC Record:	11823

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	25	0.5		µg/L	1	03/17/2002
Toluene	ND	0.5		µg/L	1	03/17/2002
Ethylbenzene	24	0.5		µg/L	1	03/17/2002
m,p-Xylene	31	1		µg/L	1	03/17/2002
o-Xylene	1	0.5		µg/L	1	03/17/2002

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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ANALYTICAL REPORT

Date: 18-Mar-02

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0203022	Client Sample ID:	SB 12
Lab ID:	0203022-02A	Matrix:	AQUEOUS
Project:	2-1362; Conoco Shephard & Kelsey 1	Collection Date:	03/12/2002 10:58:00 AM
		COC Record:	11823

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	64	0.5		µg/L	1	03/17/2002
Toluene	ND	0.5		µg/L	1	03/17/2002
Ethylbenzene	56	0.5		µg/L	1	03/17/2002
m,p-Xylene	210	1		µg/L	1	03/17/2002
o-Xylene	1.4	0.5		µg/L	1	03/17/2002

Qualifiers:
PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
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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
Surrogate - Surrogate

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ANALYTICAL REPORT

Date: 18-Mar-02

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0203022	Client Sample ID:	DG 1
Lab ID:	0203022-03A	Matrix:	AQUEOUS
Project:	2-1362; Conoco Shephard & Kelsey 1	Collection Date:	03/12/2002 11:20:00 AM
		COC Record:	11823

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	ND	0.5		µg/L	1	03/17/2002
Toluene	ND	0.5		µg/L	1	03/17/2002
Ethylbenzene	ND	0.5		µg/L	1	03/17/2002
m,p-Xylene	ND	1		µg/L	1	03/17/2002
o-Xylene	ND	0.5		µg/L	1	03/17/2002

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

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R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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On Site Technologies, LTD.

Date: 18-Mar-02

CLIENT: On Site Technologies Limited
Work Order: 0203022
Project: 2-1362; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020317		Batch ID: GC-1_020317		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/17/2002			Prep Date:	
Client ID:		0203022		Run ID: GC-1_020317A				SeqNo: 48743				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	ND	0.5										
Ethylbenzene	.0837	0.5									J	
m,p-Xylene	ND	1										
Methyl tert-Butyl Ether	.2475	1									J	
o-Xylene	ND	0.5										
Toluene	.1165	0.5									J	
1,4-Difluorobenzene	104.6	0										
4-Bromochlorobenzene	114.9	0										
Fluorobenzene	105	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: 18-Mar-02

CLIENT: On Site Technologies Limited
Work Order: 0203022
Project: 2-1362; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0203007-03AMS	Batch ID: GC-1_020317	Test Code: SW8021B	Units: µg/L	Analysis Date: 03/17/2002				Prep Date:			
Client ID: 0203022	Run ID: GC-1_020317A	SeqNo: 48744									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.42	0.5	40	10.27	95.4%	70	130				E
Ethylbenzene	68.92	0.5	40	29.88	97.6%	70	130				
m,p-Xylene	309.5	1	80	220.2	111.6%	70	130				
Methyl tert-Butyl Ether	39.75	1	40	0.2069	98.9%	70	130				
o-Xylene	157.9	0.5	40	116.5	103.5%	70	130				
Toluene	57.03	0.5	40	19.27	94.4%	70	130				
1,4-Difluorobenzene	104	0	110	0	94.6%	70	130				
4-Bromochlorobenzene	122.1	0	110	0	111.0%	70	130				
Fluorobenzene	104.2	0	110	0	94.7%	70	130				

Sample ID: 0203007-03AMSD		Batch ID: GC-1_020317		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/17/2002			Prep Date:	
Client ID: 0203022		Run ID: GC-1_020317A				SeqNo: 48745						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	47.88	0.5	40	10.27	94.0%	70	130	48.42	1.1%	15	E	
Ethylbenzene	68.11	0.5	40	29.88	95.6%	70	130	68.92	1.2%	15		
m,p-Xylene	305.8	1	80	220.2	107.0%	70	130	309.5	1.2%	15		
Methyl tert-Butyl Ether	40.03	1	40	0.2069	99.6%	70	130	39.75	0.7%	15		
o-Xylene	156.6	0.5	40	116.5	100.2%	70	130	157.9	0.9%	15		
Toluene	56.36	0.5	40	19.27	92.7%	70	130	57.03	1.2%	15		
1,4-Difluorobenzene	104.4	0	110	0	94.9%	70	130	0	0.0%	0		
4-Bromochlorobenzene	121.6	0	110	0	110.5%	70	130	0	0.0%	0		
Fluorobenzene	104.2	0	110	0	94.7%	70	130	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: 18-Mar-02

CLIENT: On Site Technologies Limited
Work Order: 0203022
Project: 2-1362; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS_020317	Batch ID: GC-1_020317	Test Code: SW8021B	Units: µg/L	Analysis Date: 03/17/2002				Prep Date:			
Client ID:	0203022	Run ID: GC-1_020317A	SeqNo: 48742								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.93	0.5	40	0	94.8%	80	120				
Ethylbenzene	38.98	0.5	40	0.0837	97.3%	80	120				
m,p-Xylene	77.37	1	80	0	96.7%	80	120				
Methyl tert-Butyl Ether	40.34	1	40	0.2475	100.2%	80	120				
o-Xylene	38.69	0.5	40	0	96.7%	80	120				
Toluene	37.58	0.5	40	0.1165	93.7%	80	120				
1,4-Difluorobenzene	104.2	0	110	0	94.8%	70	130				
4-Bromochlorobenzene	120.9	0	110	0	109.9%	70	130				
Fluorobenzene	104.5	0	110	0	95.0%	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

On Site Technologies, LTD.

Date: 18-Mar-02

CLIENT: On Site Technologies Limited
Work Order: 0203022
Project: 2-1362; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV1_020317	Batch ID: GC-1_020317	Test Code: SW8021B	Units: µg/L	Analysis Date: 03/17/2002				Prep Date:			
Client ID:	0203022	Run ID:	GC-1_020317A	SeqNo: 48739							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.12	0.5	20	0	95.6%	85	115				
Ethylbenzene	21.5	0.5	20	0	107.5%	85	115				
m,p-Xylene	40.95	1	40	0	102.4%	85	115				
Methyl tert-Butyl Ether	20	1	20	0	100.0%	85	115				
o-Xylene	19.54	0.5	20	0	97.7%	85	115				
Toluene	18.96	0.5	20	0	94.8%	85	115				
1,4-Difluorobenzene	104.5	0	110	0	95.0%	70	130				
4-Bromochlorobenzene	123.2	0	110	0	112.0%	70	130				
Fluorobenzene	104.9	0	110	0	95.4%	70	130				

Sample ID: CCV2_020317	Batch ID: GC-1_020317	Test Code: SW8021B	Units: µg/L	Analysis Date: 03/17/2002				Prep Date:			
Client ID:	0203022	Run ID:	GC-1_020317A	SeqNo: 48740							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.74	0.5	40	0	96.8%	85	115				
Ethylbenzene	39.5	0.5	40	0	98.7%	85	115				
m,p-Xylene	78.34	1	80	0	97.9%	85	115				
Methyl tert-Butyl Ether	40.45	1	40	0	101.1%	85	115				
o-Xylene	39.14	0.5	40	0	97.9%	85	115				
Toluene	38.14	0.5	40	0	95.4%	85	115				
1,4-Difluorobenzene	104.6	0	110	0	95.1%	70	130				
4-Bromochlorobenzene	121.6	0	110	0	110.6%	70	130				
Fluorobenzene	105	0	110	0	95.5%	70	130				

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0203022
Project: 2-1362; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3_020317	Batch ID: GC-1_020317	Test Code: SW8021B	Units: µg/L	Analysis Date: 03/17/2002				Prep Date:			
Client ID:	0203022	Run ID:	GC-1_020317A		SeqNo:	48741					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.16	0.5	20	0	95.8%	85	115				
Ethylbenzene	19.5	0.5	20	0	97.5%	85	115				
m,p-Xylene	38.58	1	40	0	96.4%	85	115				
Methyl tert-Butyl Ether	19.98	1	20	0	99.9%	85	115				
o-Xylene	19.22	0.5	20	0	96.1%	85	115				
Toluene	18.89	0.5	20	0	94.4%	85	115				
1,4-Difluorobenzene	104.8	0	110	0	95.3%	70	130				
4-Bromochlorobenzene	121	0	110	0	110.0%	70	130				
Fluorobenzene	104.8	0	110	0	95.3%	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: 18-Mar-02

CLIENT: On Site Technologies Limited
Work Order: 0203022
Project: 2-1362; Conoco Shephard & Kelsey 1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0203006-01A	96	110	96.5
0203007-03A	95.4	110	95.6
0203007-03AMS	94.6	111	94.7
0203007-03AMSD	94.9	110	94.7
0203014-01A	96.7	110	97.4
0203014-02A	96.5	109	96.7
0203016-01A	93.6	108	94
0203016-02A	87.2	104	88.3
0203021-01A	96.5	110	96.8
0203022-01A	93.6	110	94.4
0203022-02A	85.9	103	92
0203022-03A	96.2	111	96.5
0203023-01A	85.9	101	91.9
CCV1_020317	95	112	95.4
CCV2_020317	95.1	110	95.5
CCV3_020317	95.3	110	95.3
LCS_020317	94.8	110	95
MB_020317	95.1	104	95.5

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

* Surrogate recovery outside acceptance limits

ANALYTICAL DATA - 6/19/02

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July 10, 2002

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: 2-1362; Conoco S&K 1

Order No.: 0206030

Dear John Hagstrom,

On Site Technologies, LTD. received 3 samples on 06/19/2002 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 test results, please feel free to call.

Sincerely,

David Cox

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: On Site Technologies Limited
Project: 2-1362; Conoco S&K 1
Lab Order: 0206030

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: 10-Jul-02

Client:	On Site Technologies Limited	Client Sample Info:	Conoco S&K 1
Work Order:	0206030	Client Sample ID:	SB12
Lab ID:	0206030-01A	Matrix:	AQUEOUS
Project:	2-1362; Conoco S&K 1	Collection Date:	06/19/2002 12:10:00 PM
		COC Record:	11980

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DWC		
Benzene	130	0.5		µg/L	1	06/27/2002
Toluene	ND	0.5		µg/L	1	06/27/2002
Ethylbenzene	76	0.5		µg/L	1	06/27/2002
m,p-Xylene	380	1		µg/L	1	06/27/2002
o-Xylene	ND	0.5		µg/L	1	06/27/2002

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted precision 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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ANALYTICAL REPORT

Date: 10-Jul-02

Client:	On Site Technologies Limited	Client Sample Info:	Conoco S&K 1
Work Order:	0206030	Client Sample ID:	DG1
Lab ID:	0206030-02A	Matrix:	AQUEOUS
Project:	2-1362; Conoco S&K 1	Collection Date:	06/19/2002 12:25:00 PM
		COC Record:	11980

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DWC		
Benzene	ND	0.5		µg/L	1	06/28/2002
Toluene	ND	0.5		µg/L	1	06/28/2002
Ethylbenzene	ND	0.5		µg/L	1	06/28/2002
m,p-Xylene	ND	1		µg/L	1	06/28/2002
o-Xylene	ND	0.5		µg/L	1	06/28/2002

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted precision limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Sur: - Surrogate

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ANALYTICAL REPORT

Date: 10-Jul-02

Client:	On Site Technologies Limited	Client Sample Info:	Conoco S&K 1
Work Order:	0206030	Client Sample ID:	MW NE
Lab ID:	0206030-03A	Matrix:	AQUEOUS
Project:	2-1362; Conoco S&K 1	Collection Date:	06/19/2002 12:35:00 PM
		COC Record:	11980

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DWC		
Benzene	12	0.5		µg/L	1	06/27/2002
Toluene	ND	0.5		µg/L	1	06/27/2002
Ethylbenzene	5.9	0.5		µg/L	1	06/27/2002
m,p-Xylene	5.4	1		µg/L	1	06/27/2002
o-Xylene	ND	0.5		µg/L	1	06/27/2002

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted precision 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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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: On Site Technologies Limited
Work Order: 0206030
Project: 2-1362; Conoco S&K 1

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020627	Batch ID: GC-1_020627	Test Code: SW8021B	Units: µg/L	Analysis Date: 06/27/2002	Prep Date: 06/27/2002						
Client ID:	0206030	Run ID: GC-1_020627A		SeqNo: 52887							
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	.1054	0.5									J
1,4-Difluorobenzene	107.6	0									
4-Bromochlorobenzene	118.6	0									
Fluorobenzene	109.7	0									

Sample ID: MB_020628	Batch ID: GC-1_020628	Test Code: SW8021B	Units: µg/L	Analysis Date: 06/28/2002	Prep Date: 06/28/2002						
Client ID:	0206030	Run ID: GC-1_020628A		SeqNo: 52913							
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	.1684	0.5									J
1,4-Difluorobenzene	109	0									
4-Bromochlorobenzene	121.8	0									
Fluorobenzene	112.8	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: 10-Jul-02

CLIENT: On Site Technologies Limited
Work Order: 0206030
Project: 2-1362; Conoco S&K 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0206041-01AMS		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002			Prep Date: 06/27/2002	
Client ID: 0206030		Run ID: GC-1_020627A				SeqNo: 52888						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	1171	5	400	769.1	100.6%	70	130					
Ethylbenzene	763.9	5	400	352.2	102.9%	70	130					
m,p-Xylene	1554	10	800	774.5	97.4%	70	130					
Methyl tert-Butyl Ether	601.3	10	400	205	99.1%	70	130					
o-Xylene	474.6	5	400	88.25	96.6%	70	130					
Toluene	597.6	5	400	204.9	98.2%	70	130					
1,4-Difluorobenzene	1065	0	1100	0	96.8%	70	130					
4-Bromochlorobenzene	1210	0	1100	0	110.0%	70	130					
Fluorobenzene	1087	0	1100	0	98.8%	70	130					

Sample ID: 0206041-01AMSD		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002			Prep Date: 06/27/2002	
Client ID: 0206030		Run ID: GC-1_020627A		SeqNo: 52889								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	1127	5	400	769.1	89.6%	70	130	1171	3.8%	15		
Ethylbenzene	735.7	5	400	352.2	95.9%	70	130	763.9	3.8%	15		
m,p-Xylene	1498	10	800	774.5	90.5%	70	130	1554	3.6%	15		
Methyl tert-Butyl Ether	591.9	10	400	205	96.7%	70	130	601.3	1.6%	15		
o-Xylene	460.1	5	400	88.25	93.0%	70	130	474.6	3.1%	15		
Toluene	574.8	5	400	204.9	92.5%	70	130	597.6	3.9%	15		
1,4-Difluorobenzene	1054	0	1100	0	95.9%	70	130	0	0.0%	0		
4-Bromochlorobenzene	1208	0	1100	0	109.8%	70	130	0	0.0%	0		
Fluorobenzene	1084	0	1100	0	98.5%	70	130	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

CLIENT: On Site Technologies Limited
Work Order: 0206030
Project: 2-1362; Conoco S&K 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0206039-02AMS		Batch ID: GC-1_020628		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/28/2002		Prep Date: 06/28/2002	
Client ID: 0206030		Run ID: GC-1_020628A				SeqNo: 52914					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	512.8	2.5	200	312.6	100.1%	70	130				
Ethylbenzene	483.4	2.5	200	295.9	93.8%	70	130				
m,p-Xylene	897.1	5	400	517.3	94.9%	70	130				
Methyl tert-Butyl Ether	202.2	5	200	0	101.1%	70	130				
o-Xylene	221.4	2.5	200	30.64	95.4%	70	130				
Toluene	212.8	2.5	200	0.7775	106.0%	70	130				
1,4-Difluorobenzene	538.8	0	550	0	98.0%	70	130				
4-Bromochlorobenzene	614	0	550	0	111.6%	70	130				
Fluorobenzene	553.7	0	550	0	100.7%	70	130				

Sample ID: 0206039-02AMSD	Batch ID: GC-1_020628	Test Code: SW8021B	Units: µg/L			Analysis Date: 06/28/2002			Prep Date: 06/28/2002		
Client ID:	0206030	Run ID:	GC-1_020628A			SeqNo: 52915					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	495.9	2.5	200	312.6	91.6%	70	130	512.8	3.3%	15	
Ethylbenzene	466.3	2.5	200	295.9	85.2%	70	130	483.4	3.6%	15	
m,p-Xylene	866.1	5	400	517.3	87.2%	70	130	897.1	3.5%	15	
Methyl tert-Butyl Ether	197.8	5	200	0	98.9%	70	130	202.2	2.2%	15	
o-Xylene	216.8	2.5	200	30.64	93.1%	70	130	221.4	2.1%	15	
Toluene	206.5	2.5	200	0.7775	102.9%	70	130	212.8	3.0%	15	
1,4-Difluorobenzene	529.2	0	550	0	96.2%	70	130	0	0.0%	0	
4-Bromochlorobenzene	603	0	550	0	109.6%	70	130	0	0.0%	0	
Fluorobenzene	545.4	0	550	0	99.2%	70	130	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: 10-Jul-02

CLIENT: On Site Technologies Limited

Work Order: 0206030

Project: 2-1362; Conoco S&K 1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020627	Batch ID: GC-1_020627	Test Code: SW8021B	Units: µg/L	Analysis Date: 06/27/2002	Prep Date: 06/27/2002						
Client ID:	0206030	Run ID: GC-1_020627A		SeqNo: 52886							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.85	0.5	40	0	97.1%	80	120				
Ethylbenzene	39.46	0.5	40	0	98.7%	80	120				
m,p-Xylene	78.4	1	80	0	98.0%	80	120				
Methyl tert-Butyl Ether	39.58	1	40	0	99.0%	80	120				
o-Xylene	38.05	0.5	40	0	95.1%	80	120				
Toluene	37.88	0.5	40	0.1054	94.4%	80	120				
1,4-Difluorobenzene	106.6	0	110	0	97.0%	70	130				
4-Bromochlorobenzene	120.1	0	110	0	109.2%	70	130				
Fluorobenzene	108.9	0	110	0	99.0%	70	130				

Sample ID: LCS_020628	Batch ID: GC-1_020628	Test Code: SW8021B	Units: µg/L	Analysis Date: 06/28/2002				Prep Date: 06/28/2002			
Client ID:	0206030	Run ID:	GC-1_020628A	SeqNo: 52912							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.44	0.5	40	0	98.6%	80	120				
Ethylbenzene	39.99	0.5	40	0	100.0%	80	120				
m,p-Xylene	79.19	1	80	0	99.0%	80	120				
Methyl tert-Butyl Ether	38.46	1	40	0	96.1%	80	120				
o-Xylene	38.22	0.5	40	0	95.6%	80	120				
Toluene	38.31	0.5	40	0.1684	95.4%	80	120				
1,4-Difluorobenzene	108.3	0	110	0	98.4%	70	130				
4-Bromochlorobenzene	122	0	110	0	110.9%	70	130				
Fluorobenzene	111.3	0	110	0	101.2%	70	130				

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: 10-Jul-02

CLIENT: On Site Technologies Limited
Work Order: 0206030
Project: 2-1362; Conoco S&K I

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020627	Batch ID: GC-1_020627	Test Code: SW8021B	Units: µg/L		Analysis Date: 06/27/2002				Prep Date: 06/27/2002		
Client ID:	0206030	Run ID:	GC-1_020627A		SeqNo:		52883				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.08	0.5	20	0	100.4%	85	115				
Ethylbenzene	20.33	0.5	20	0	101.6%	85	115				
m,p-Xylene	40.7	1	40	0	101.7%	85	115				
Methyl tert-Butyl Ether	19.9	1	20	0	99.5%	85	115				
o-Xylene	19.56	0.5	20	0	97.8%	85	115				
Toluene	19.51	0.5	20	0	97.5%	85	115				
1,4-Difluorobenzene	106.7	0	110	0	97.0%	70	130				
4-Bromochlorobenzene	117.7	0	110	0	107.0%	70	130				
Fluorobenzene	109.6	0	110	0	99.6%	70	130				

Sample ID: CCV2_020627	Batch ID: GC-1_020627	Test Code: SW8021B	Units: µg/L			Analysis Date: 06/27/2002			Prep Date: 06/27/2002		
Client ID:	0206030	Run ID:	GC-1_020627A			SeqNo: 52884					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.17	0.5	20	0	95.9%	85	115				
Ethylbenzene	19.37	0.5	20	0	96.9%	85	115				
m,p-Xylene	38.18	1	40	0	95.4%	85	115				
Methyl tert-Butyl Ether	18.95	1	20	0	94.7%	85	115				
o-Xylene	18.69	0.5	20	0	93.5%	85	115				
Toluene	18.54	0.5	20	0	92.7%	85	115				
1,4-Difluorobenzene	109.1	0	110	0	99.2%	70	130				
4-Bromochlorobenzene	123.6	0	110	0	112.4%	70	130				
Fluorobenzene	111.7	0	110	0	101.6%	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

CLIENT: On Site Technologies Limited
 Work Order: 0206030
 Project: 2-1362; Conoco S&K 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_020627		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002			Prep Date: 06/27/2002		
Client ID:		0206030		Run ID:		GC-1_020627A		SeqNo: 52885					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	38.74	0.5	40	0	96.8%	85	115						
Ethylbenzene	38.89	0.5	40	0	97.2%	85	115						
m,p-Xylene	76.38	1	80	0	95.5%	85	115						
Methyl tert-Butyl Ether	38.49	1	40	0	96.2%	85	115						
o-Xylene	37.42	0.5	40	0	93.5%	85	115						
Toluene	37.56	0.5	40	0	93.9%	85	115						
1,4-Difluorobenzene	107.9	0	110	0	98.1%	70	130						
4-Bromochlorobenzene	119.1	0	110	0	108.3%	70	130						
Fluorobenzene	111.5	0	110	0	101.4%	70	130						

Sample ID: GCV1_020628		Batch ID: GC-1_020628		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/28/2002			Prep Date: 06/28/2002	
Client ID:		Run ID:		GC-1_020628A				SeqNo: 52911				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	20.37	0.5	20	0	101.9%	85	115					
Ethylbenzene	20.56	0.5	20	0	102.8%	85	115					
m,p-Xylene	40.47	1	40	0	101.2%	85	115					
Methyl tert-Butyl Ether	19.98	1	20	0	99.9%	85	115					
o-Xylene	19.67	0.5	20	0	98.4%	85	115					
Toluene	19.69	0.5	20	0	98.5%	85	115					
1,4-Difluorobenzene	108.4	0	110	0	98.5%	70	130					
4-Bromochlorobenzene	121.5	0	110	0	110.4%	70	130					
Fluorobenzene	111.6	0	110	0	101.5%	70	130					

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0206030
Project: 2-1362; Conoco S&K 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV2_020628		Batch ID: GC-1_020628		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/28/2002			Prep Date: 06/28/2002	
Client ID: 0206030		Run ID: GC-1_020628A						SeqNo: 52909				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Benzene	20.06	0.5	20	0	100.3%	85	115					
Ethylbenzene	20.13	0.5	20	0	100.6%	85	115					
m,p-Xylene	39.24	1	40	0	98.1%	85	115					
Methyl tert-Butyl Ether	20.31	1	20	0	101.5%	85	115					
o-Xylene	19.37	0.5	20	0	96.8%	85	115					
Toluene	19.38	0.5	20	0	96.9%	85	115					
1,4-Difluorobenzene	108.7	0	110	0	98.8%	70	130					
4-Bromochlorobenzene	118.9	0	110	0	108.1%	70	130					
Fluorobenzene	111.8	0	110	0	101.7%	70	130					

Sample ID: CCV3_020628	Batch ID: GC-1_020628	Test Code: SW8021B	Units: µg/L	Analysis Date: 06/28/2002				Prep Date: 06/28/2002			
Client ID:	0206030	Run ID:	GC-1_020628A	SeqNo: 52910							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.19	0.5	40	0	95.5%	85	115				
Ethylbenzene	38.83	0.5	40	0	97.1%	85	115				
m,p-Xylene	75.68	1	80	0	94.6%	85	115				
Methyl tert-Butyl Ether	38.62	1	40	0	96.5%	85	115				
o-Xylene	37.34	0.5	40	0	93.4%	85	115				
Toluene	37.3	0.5	40	0	93.2%	85	115				
1,4-Difluorobenzene	108.5	0	110	0	98.6%	70	130				
4-Bromochlorobenzene	116.4	0	110	0	105.8%	70	130				
Fluorobenzene	112.3	0	110	0	102.1%	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

On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: On Site Technologies Limited
 Work Order: 0206030
 Project: 2-1362; Conoco S&K 1
 Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0206028-01A	88	100	105
0206029-01A	99.2	109	102
0206030-01A	90.1	103	102
0206030-02A	99.4	111	102
0206030-03A	96.5	111	100
0206031-01A	99.4	110	102
0206031-02A	98.4	110	102
0206031-03A	98.2	111	101
0206031-04A	92.1	107	95.5
0206039-01A	91.8	112	95.2
0206039-02A	96.5	108	99.6
0206039-02AMS	98	112	101
0206039-02AMSD	96.2	110	99.2
0206041-01A	96.6	110	99
0206041-01AMS	96.8	110	98.8
0206041-01AMSD	95.8	110	98.5
0206041-02A	98.1	112	101
0206048-01A	97.7	109	101
0206049-01A	97.6	106	100
0206049-02A	95.9	107	99.7
0206050-01A	95.5	109	98.7
0206050-02A	99.5	113	102
0206051-01A	99.2	111	102
0206052-01A	96.3	106	100
0206054-02A	101	100	96.8
0206054-03A	95.5	109	98.3
0206054-04A	95.4	109	98.2

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

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies Limited

Work Order: 0206030

Project: 2-1362; Conoco S&K 1

Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0206057-01A	99.5	107	102
0206057-02A	99.2	106	103
0206057-03A	99.6	106	103
0206057-04A	99.7	106	103
0206057-05A	99.4	105	103
0206057-06A	99.1	106	103
0206057-07A	99.3	108	102
0206057-08A	99.3	108	103
0206061-01A	95.4	100	102
CCV1_020627	97	107	99.6
CCV1_020628	98.5	110	102
CCV2_020627	99.2	112	102
CCV2_020628	98.8	108	102
CCV3_020627	98.1	108	101
CCV3_020628	98.6	106	102
LCS_020627	97	109	99
LCS_020628	98.4	111	101
MB_020627	97.8	108	99.8
MB_020628	99.1	111	102

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

* Surrogate recovery outside acceptance limits

ANALYTICAL DATA - 9/17/02

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iina bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

October 08, 2002

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: 2-1362; Shepard & Kelsey 1

Order No.: 0209019

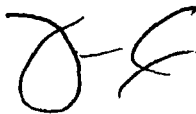
Dear John Hagstrom:

iina ba, Ltd. received 3 samples on 9/17/2002 for the analyses presented in the following report.

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 test results, please feel free to call.

Sincerely,



David Cox

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Date: 08-Oct-02

CLIENT: On Site Technologies Limited
Project: 2-1362; Shepard & Kelsey 1
Lab Order: 0209019

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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Farmington, NM 87401

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Fax: (505) 327-1496

Date: 08-Oct-02

CLIENT: On Site Technologies Limited
Work Order: 0209019
Project: 2-1362; Shepard & Kelsey 1
Lab ID: 0209019-01A

Client Sample Info: Shephard & Kelsey 1
Client Sample ID: SB 12
Collection Date: 9/17/2002 2:00:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	40	2.5		µg/L	5	9/25/2002
Ethylbenzene	51	2.5		µg/L	5	9/25/2002
m,p-Xylene	240	5.0		µg/L	5	9/25/2002
o-Xylene	5.1	2.5		µg/L	5	9/25/2002
Toluene	ND	2.5		µg/L	5	9/25/2002

Qualifiers: ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

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

Page 1 of 3

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Date: 08-Oct-02

CLIENT: On Site Technologies Limited
Work Order: 0209019
Project: 2-1362; Shepard & Kelsey 1
Lab ID: 0209019-02A

Client Sample Info: Shephard & Kelsey 1
Client Sample ID: DG 1
Collection Date: 9/17/2002 2:15:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	ND	0.50		µg/L	1	9/25/2002
Ethylbenzene	ND	0.50		µg/L	1	9/25/2002
m,p-Xylene	ND	1.0		µg/L	1	9/25/2002
o-Xylene	ND	0.50		µg/L	1	9/25/2002
Toluene	ND	0.50		µg/L	1	9/25/2002

Qualifiers: ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

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

Page 2 of 3

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Date: 08-Oct-02

CLIENT: On Site Technologies Limited

Client Sample Info: Shephard & Kelsey 1

Work Order: 0209019

Client Sample ID: MW NE

Project: 2-1362; Shepard & Kelsey 1

Collection Date: 9/17/2002 1:45:00 PM

Lab ID: 0209019-03A

Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: HNR
Benzene	13	0.50		µg/L	1	9/25/2002
Ethylbenzene	11	0.50		µg/L	1	9/25/2002
m,p-Xylene	9.2	1.0		µg/L	1	9/25/2002
o-Xylene	1.6	0.50		µg/L	1	9/25/2002
Toluene	ND	0.50		µg/L	1	9/25/2002

Qualifiers: ND - Not Detected at Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

R - RPD outside accepted precision limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Page 3 of 3

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

iina ba, Ltd.

Date: 08-Oct-02

CLIENT: On Site Technologies Limited
Work Order: 0209019
Project: 2-1362; Shepard & Kelsey 1

ANALYTICAL QC SUMMARY REPORT

BatchID: R3933

Sample ID	MB_020923	SampType: MBLK	TestCode: BTEX_W	Units: µg/L	Prep Date: 9/25/2002	Run ID: GC-1_020925A					
Client ID: ZZZZZ	Batch ID: R3933	TestNo: SW8021B		Analysis Date: 9/25/2002	SeqNo: 58371						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	0.0412	0.50									J
Ethylbenzene	0.0587	0.50									J
m,p-Xylene	ND	1.0									
o-Xylene	0.0942	0.50									J
Toluene	0.1038	0.50									J
Surr: 1,4-Difluorobenzene	107.6	0	110	0	97.8	82	112	0	0		
Surr: 4-Bromochlorobenzene	117.7	0	110	0	107	95	124	0	0		
Surr: Fluorobenzene	110.1	0	110	0	100	84	114	0	0		

Sample ID	LCS_020925	SampType: LCS	TestCode: BTEX_W	Units: µg/L	Prep Date: 9/25/2002	Run ID: GC-1_020925A					
Client ID: ZZZZZ	Batch ID: R3933	TestNo: SW8021B			Analysis Date: 9/25/2002	SeqNo: 58370					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	40.11	0.50	40	0.0412	100	86	106	0	0		
Ethylbenzene	41.09	0.50	40	0.0587	103	88	110	0	0		
m,p-Xylene	82.23	1.0	80	0	103	86	110	0	0		
o-Xylene	39.67	0.50	40	0.0942	98.9	83	110	0	0		
Toluene	39.45	0.50	40	0.1038	98.4	84	105	0	0		
Surr: 1,4-Difluorobenzene	107.3	0	110	0	97.6	82	112	0	0		
Surr: 4-Bromochlorobenzene	122.8	0	110	0	112	95	124	0	0		
Surr: Fluorobenzene	108.1	0	110	0	98.3	84	114	0	0		

Sample ID	0209018-03AMS	SampType: MS	TestCode: BTEX_W	Units: µg/L	Prep Date: 9/25/2002	Run ID: GC-1_020925A					
Client ID:	ZZZZZ	Batch ID: R3933	TestNo: SW8021B		Analysis Date: 9/25/2002	SeqNo: 58372					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	217.5	2.5	200	21.32	98.1	76	114	0	0		
Ethylbenzene	231.2	2.5	200	28.79	101	80	113	0	0		
m,p-Xylene	894.2	5.0	400	469.7	106	73	118	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

CLIENT: On Site Technologies Limited
 Work Order: 0209019
 Project: 2-1362; Shepard & Kelsey 1

ANALYTICAL QC SUMMARY REPORT

BatchID: R3933

Sample ID 0209018-03AMS	SampType: MS	TestCode: BTEX_W	Units: µg/L	Prep Date: 9/25/2002	Run ID: GC-1_020925A						
Client ID: ZZZZZ	Batch ID: R3933	TestNo: SW8021B		Analysis Date: 9/25/2002	SeqNo: 58372						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

o-Xylene	194.4	2.5	200	6.976	93.7	82	106	0	0		
Toluene	207.4	2.5	200	2.468	102	80	110	0	0		
Surr: 1,4-Difluorobenzene	510.9	0	550	0	92.9	82	112	0	0		
Surr: 4-Bromochlorobenzene	611.8	0	550	0	111	95	124	0	0		
Surr: Fluorobenzene	518.5	0	550	0	94.3	84	114	0	0		

Sample ID	0209018-03AMSD	SampType:	MSD	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	9/25/2002	Run ID:	GC-1_020925A			
Client ID:	ZZZZZ	Batch ID:	R3933	TestNo:	SW8021B			Analysis Date:	9/25/2002	SeqNo:	58373			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	211.5	2.5	200	21.32	95.1	76	114	217.5	2.82	15	
Ethylbenzene	225.1	2.5	200	28.79	98.2	80	113	231.2	2.66	15	
m,p-Xylene	872.5	5.0	400	469.7	101	73	118	894.2	2.46	15	
o-Xylene	189.7	2.5	200	6.976	91.4	82	106	194.4	2.44	15	
Toluene	199.8	2.5	200	2.468	98.6	80	110	207.4	3.77	15	
Surr: 1,4-Difluorobenzene	515.1	0	550	0	93.7	82	112	0	0	0	
Surr: 4-Bromochlorobenzene	616	0	550	0	112	95	124	0	0	0	
Surr: Fluorobenzene	519.8	0	550	0	94.5	84	114	0	0	0	

Sample ID	CCV1_020925	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	9/25/2002	Run ID:	GC-1_020925A		
Client ID:	ZZZZZ	Batch ID:	R3933	TestNo:	SW8021B			Analysis Date:	9/25/2002	SeqNo:	58367		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	20.2	0.50	20	0	101	85	115	0	0		
Ethylbenzene	20.68	0.50	20	0	103	85	115	0	0		
m,p-Xylene	40.89	1.0	40	0	102	85	115	0	0		
o-Xylene	19.84	0.50	20	0	99.2	85	115	0	0		
Toluene	19.77	0.50	20	0	98.9	85	115	0	0		
Surr: 1,4-Difluorobenzene	107.5	0	110	0	97.7	82	112	0	0		
Surr: 4-Bromochlorobenzene	120.7	0	110	0	110	95	124	0	0		
Surr: Fluorobenzene	109.1	0	110	0	99.1	84	114	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

CLIENT: On Site Technologies Limited
 Work Order: 0209019
 Project: 2-1362; Shepard & Kelsey I

ANALYTICAL QC SUMMARY REPORT

BatchID: R3933

Sample ID	CCV2_020925	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	9/25/2002	Run ID:	GC-1_020925A
Client ID:	ZZZZZ	Batch ID:	R3933	TestNo:	SW8021B			Analysis Date:	9/25/2002	SeqNo:	58368
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.37	0.50	40	0	103	85	115	0	0		
Ethylbenzene	41.99	0.50	40	0	105	85	115	0	0		
m,p-Xylene	83.76	1.0	80	0	105	85	115	0	0		
o-Xylene	40.38	0.50	40	0	101	85	115	0	0		
Toluene	40.53	0.50	40	0	101	85	115	0	0		
Surr: 1,4-Difluorobenzene	106	0	110	0	96.3	82	112	0	0		
Surr: 4-Bromochlorobenzene	125	0	110	0	114	95	124	0	0		
Surr: Fluorobenzene	107.9	0	110	0	98.1	84	114	0	0		

Sample ID	CCV3_020925	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	9/25/2002	Run ID:	GC-1_020925A
Client ID:	ZZZZZ	Batch ID:	R3933	TestNo:	SW8021B			Analysis Date:	9/25/2002	SeqNo:	58369
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.87	0.50	20	0	99.3	85	115	0	0		
Ethylbenzene	20.26	0.50	20	0	101	85	115	0	0		
m,p-Xylene	39	1.0	40	0	97.5	85	115	0	0		
o-Xylene	19.64	0.50	20	0	98.2	85	115	0	0		
Toluene	19.41	0.50	20	0	97.1	85	115	0	0		
Surr: 1,4-Difluorobenzene	107.4	0	110	0	97.6	82	112	0	0		
Surr: 4-Bromochlorobenzene	122.3	0	110	0	111	95	124	0	0		
Surr: Fluorobenzene	109.1	0	110	0	99.2	84	114	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

iina ba, Ltd.

Date: 08-Oct-02

CLIENT: On Site Technologies Limited

Work Order: 0209019

Project: 2-1362; Shepard & Kelsey 1

Test No: SW8021B

Matrix: W

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	14FBZ	4BCBZ	FLBZ					
0209018-03AMS	92.9	111	94.3					
0209018-03AMSD	93.7	112	94.5					
0209019-01A	95.5	110	98.5					
0209019-02A	98.2	113	101					
0209019-03A	95.7	112	98.4					
CCV1_020925	97.7	110	99.1					
CCV2_020925	96.3	114	98.1					
CCV3_020925	97.6	111	99.2					
LCS_020925	97.6	112	98.3					
MB_020923	97.8	107	100					

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	82-112
4BCBZ	= 4-Bromochlorobenzene	95-124
FLBZ	= Fluorobenzene	84-114

* Surrogate recovery outside acceptance limits

ANALYTICAL DATA - 1/30/04

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

February 04, 2004

John Hagström
Souder, Miller & Associates
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87401
TEL: 505-325-1556
FAX 505-327-1496

RE: S & K 1, 5114224

Order No.: 0401019

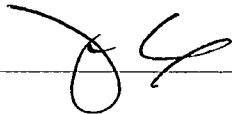
Dear John Hagstrom:

iiná bá received 2 samples on 1/30/2004 for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: _____



David Cox
Laboratory Manager

Heidi Reese
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: 04-Feb-04

CLIENT: Souder, Miller & Associates
Project: S & K I, 5114224
Lab Order: 0401019

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), the quality control summary report(s) or the sample receipt checklist.

612 E. Murray Drive
Farmington, NM 87499

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iná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 04-Feb-04

CLIENT: Souder, Miller & Associates
Work Order: 0401019
Project: S & K 1, 5114224
Lab ID: 0401019-001A

Client Sample Info: Shepard and Kelsey 1
Client Sample ID: SB12
Collection Date: 1/30/2004 11:50:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	12	0.5		µg/L	1	2/3/2004
Ethylbenzene	16	0.5		µg/L	1	2/3/2004
m,p-Xylene	73	1.0		µg/L	1	2/3/2004
o-Xylene	1.2	0.5		µg/L	1	2/3/2004
Toluene	ND	0.5		µg/L	1	2/3/2004

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

R - RPD outside accepted precision limits

B - Analyte detected in the associated Method Blank

E - Value above Upper Quantitation Limit - UQL

H - Parameter exceeded Maximum Allowable Holding Time

Page 1 of 2

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
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iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 04-Feb-04

CLIENT: Souder, Miller & Associates

Client Sample Info: Shepard and Kelsey 1

Work Order: 0401019

Client Sample ID: Trip Blank

Project: S & K 1, 5114224

Collection Date: 1/30/2004 10:00:00 AM

Lab ID: 0401019-002A

Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	ND	0.5		µg/L	1	2/3/2004
Ethylbenzene	ND	0.5		µg/L	1	2/3/2004
m,p-Xylene	ND	1.0		µg/L	1	2/3/2004
o-Xylene	ND	0.5		µg/L	1	2/3/2004
Toluene	ND	0.5		µg/L	1	2/3/2004

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

R - RPD outside accepted precision limits

B - Analyte detected in the associated Method Blank

E - Value above Upper Quantitation Limit - UQL

H - Parameter exceeded Maximum Allowable Holding Time

Page 2 of 2

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

liná bá, Ltd.

Sample Receipt Checklist

Client Name: SMA1005

Date and Time Received:

1/30/2004

Work Order Number: 0401019

Received by: JEM

Checklist completed by:

J. Moore
Signature

1/30/04
Date

Reviewed by:

JL
Initials

2/2/04
Date

Matrix:

Carrier name: John Hagstrom

Shipping container/cooler in good condition?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

?

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☒

No ☐

Adjusted? _____

Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____

Date contacted: _____

Person contacted: _____

Contacted by: _____

Regarding: _____

Comments:

Samples left in cooler by client.

Corrective Action: _____

ina bá

Date: 04-Feb-04

CLIENT: Souder, Miller & Associates
Work Order: 0401019
Project: S & K 1, 5114224

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	MBLK_040203	SampType:	MBLK	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040203A
Client ID:	ZZZZZ	Batch ID:	R5350	TestNo:	SW8021B			Analysis Date:	2/3/2004	SeqNo:	77153
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Toluene	0.074	0.50									

Sample ID	LCS_040203	SampType:	LCS	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040203A
Client ID:	ZZZZZ	Batch ID:	R5350	TestNo:	SW8021B			Analysis Date:	2/3/2004	SeqNo:	77152
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	40.46	0.50	40	0	101	86	114	0	0		
Ethylbenzene	42.17	0.50	40	0	105	85	116	0	0		
m,p-Xylene	84.87	1.0	80	0	106	89	114	0	0		
o-Xylene	42.33	0.50	40	0	106	86	114	0	0		
Toluene	42.76	0.50	40	0.074	107	87	112	0	0		

Sample ID	0401019-001AMS	SampType:	MS	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040203A
Client ID:	SB12	Batch ID:	R5350	TestNo:	SW8021B			Analysis Date:	2/3/2004	SeqNo:	77154
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	206.8	2.5	200	12.07	97.4	81	116	0	0		
Ethylbenzene	223.4	2.5	200	15.78	104	85	115	0	0		
m,p-Xylene	495.7	5.0	400	74.13	105	84	117	0	0		
o-Xylene	209.1	2.5	200	3.165	103	84	113	0	0		
Toluene	211.2	2.5	200	8.164	102	88	110	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

CLIENT: Souder, Miller & Associates

Work Order: 0401019

Project: S & K I, 5114224

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	0401019-001AMSD	SampType: MSD	TestCode: BTEX_W	Units: µg/L	Prep Date:	Run ID: GC-1_040203A					
Client ID: SB12	Batch ID: R5350	TestNo: SW8021B	Analysis Date: 2/3/2004	SeqNo: 77155							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	213.8	2.5	200	12.07	101	78	111	206.8	3.35	7	
Ethylbenzene	231.4	2.5	200	15.78	108	82	111	223.4	3.50	6.9	
m,p-Xylene	512.1	5.0	400	74.13	109	80	113	495.7	3.27	6.8	
o-Xylene	215.1	2.5	200	3.165	106	83	110	209.1	2.86	6.4	
Toluene	218.3	2.5	200	8.164	105	84	110	211.2	3.31	6.3	

Sample ID	CCV1_040203	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040203A	
Client ID:	ZZZZZ	Batch ID:	R5350	TestNo:	SW8021B			Analysis Date:	2/3/2004	SeqNo:	77150	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		21.08	0.50	20	0	105	85	115	0	0		
Ethylbenzene		21.88	0.50	20	0	109	85	115	0	0		
m,p-Xylene		43.72	1.0	40	0	109	85	115	0	0		
o-Xylene		22.04	0.50	20	0	110	85	115	0	0		
Toluene		22.38	0.50	20	0	112	85	115	0	0		

Sample ID	CCV2_040203	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040203A	
Client ID:	ZZZZZ	Batch ID:	R5350	TestNo:	SW8021B			Analysis Date:	2/3/2004	SeqNo:	77151	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		39.2	0.50	40	0	98	85	115	0	0		
Ethylbenzene		40.93	0.50	40	0	102	85	115	0	0		
m,p-Xylene		82.25	1.0	80	0	103	85	115	0	0		
o-Xylene		41.14	0.50	40	0	103	85	115	0	0		
Toluene		41.27	0.50	40	0	103	85	115	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

iiná bá

Date: 04-Feb-04

CLIENT: Souder, Miller & Associates

Work Order: 0401019

Project: S & K 1, 5114224

Test No: SW8021B

Matrix: W

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Sample ID	14FBZ	4BCBZ	FLBZ			
0401019-001A	104	111	101			
0401019-001A	103	111	101			
0401019-001A	103	109	101			
0401019-001AMS	104	111	101			
0401019-001AMSD	103	111	101			
0401019-002A	105	111	102			
CCV1_040203	104	109	101			
CCV2_040203	103	112	101			
LCS_040203	103	111	100			
MBLK_040203	105	108	102			

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	87-124
4BCBZ	= 4-Bromochlorobenzene	75-139
FLBZ	= Fluorobenzene	86-119

* Surrogate recovery outside acceptance limits

3591

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Date 11/30/09

Page 1 of 1

[illegible]

ANALYTICAL DATA - 4/26/04

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

May 10, 2004

Walter Gage
Souder, Miller & Associates
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87401

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

RE: 5114224; S&K 1

Order No.: 0404042

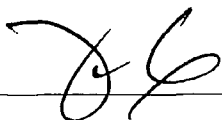
Dear Walter Gage:

iiná bá received 2 samples on 4/26/2004 for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: _____



David Cox
Laboratory Manager

Heidi Reese
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
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FAX: (505) 327-1496

una bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

una bá

Date: 10-May-04

CLIENT: Souder, Miller & Associates
Project: 5114224; S&K 1
Lab Order: 0404042

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), the quality control summary report(s) or the sample receipt checklist.

Analytical Comments for METHOD BTEX_W, SAMPLE 0404042-001A: Sample pH > 2 and analyzed eight days after collection date.

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ANALYTICAL REPORT

Date: 10-May-04

CLIENT: Souder, Miller & Associates

Client Sample Info: S&K 1

Work Order: 0404042

Client Sample ID: SB 12

Project: 5114224; S&K 1

Collection Date: 4/26/2004 10:45:00 AM

Lab ID: 0404042-001A

Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	45	0.5		µg/L	1	5/4/2004
Ethylbenzene	21	0.5		µg/L	1	5/4/2004
m,p-Xylene	100	1.0		µg/L	1	5/4/2004
o-Xylene	ND	0.5		µg/L	1	5/4/2004
Toluene	ND	0.5		µg/L	1	5/4/2004

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

R - RPD outside accepted precision limits

B - Analyte detected in the associated Method Blank

E - Value above Upper Quantitation Limit - UQL

H - Parameter exceeded Maximum Allowable Holding Time

Page 1 of 2

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 10-May-04

CLIENT: Souder, Miller & Associates

Client Sample Info: S&K 1

Work Order: 0404042

Client Sample ID: Trip Blank

Project: 5114224; S&K 1

Collection Date: 4/26/2004 8:00:00 AM

Lab ID: 0404042-002A

Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	ND	0.5		µg/L	1	5/4/2004
Ethylbenzene	ND	0.5		µg/L	1	5/4/2004
m,p-Xylene	ND	1.0		µg/L	1	5/4/2004
o-Xylene	ND	0.5		µg/L	1	5/4/2004
Toluene	ND	0.5		µg/L	1	5/4/2004

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

R - RPD outside accepted precision limits

B - Analyte detected in the associated Method Blank

E - Value above Upper Quantitation Limit - UQL

H - Parameter exceeded Maximum Allowable Holding Time

Page 2 of 2

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

iiná bá

Sample Receipt Checklist

Client Name: SMA1005

Date and Time Received:

4/26/2004

Work Order Number: 0404042

Received by: HNR

Checklist completed by:

Signature

Date

Reviewed by:

Initials

Date

Matrix:

Carrier name: Courier

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☒

No ☐

Adjusted? _____

Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____

Date contacted: _____

Person contacted: _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action: _____

iiná bá

Date: 10-May-04

CLIENT: Souder, Miller & Associates

Work Order: 0404042

Project: 5114224; S&K 1

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	MB_040504	SampType:	MBLK	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80915
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	0.1199	0.50									J
Ethylbenzene	0.1261	0.50									J
m,p-Xylene	ND	1.0									
o-Xylene	0.1252	0.50									J
Toluene	0.1427	0.50									J

Sample ID	LCS1_040504	SampType:	LCS	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80914
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	35.15	0.50	40	0.1199	87.6	86	114	0	0		
Ethylbenzene	38.3	0.50	40	0.1261	95.4	85	116	0	0		
m,p-Xylene	76.88	1.0	80	0	96.1	89	114	0	0		
o-Xylene	38.41	0.50	40	0.1252	95.7	86	114	0	0		
Toluene	38.67	0.50	40	0.1427	96.3	87	112	0	0		

Sample ID	0404045-007AMS	SampType:	MS	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80916
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	359.1	2.5	200	176.3	91.4	81	116	0	0		
Ethylbenzene	246	2.5	200	39.94	103	85	115	0	0		
m,p-Xylene	545.7	5.0	400	129.5	104	84	117	0	0		
o-Xylene	206.1	2.5	200	5.808	100	84	113	0	0		
Toluene	212.3	2.5	200	2.818	105	88	110	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

CLIENT: Souder, Miller & Associates

Work Order: 0404042

Project: 5114224; S&K 1

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	0404045-007AMSD	SampType:	MSD	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80917
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	347.6	2.5	200	176.3	85.6	78	111	359.1	3.26	7	
Ethylbenzene	238.8	2.5	200	39.94	99.4	82	111	246	2.97	6.9	
m,p-Xylene	530.3	5.0	400	129.5	100	80	113	545.7	2.86	6.8	
o-Xylene	202.8	2.5	200	5.808	98.5	83	110	206.1	1.58	6.4	
Toluene	206.2	2.5	200	2.818	102	84	110	212.3	2.89	6.3	

Sample ID	CCV1_040504	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80910
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.17	0.50	20	0	90.8	85	115	0	0		
Ethylbenzene	19.84	0.50	20	0	99.2	85	115	0	0		
m,p-Xylene	39.8	1.0	40	0	99.5	85	115	0	0		
o-Xylene	19.7	0.50	20	0	98.5	85	115	0	0		
Toluene	19.92	0.50	20	0	99.6	85	115	0	0		

Sample ID	CCV2_040504	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80911
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.31	0.50	40	0	90.8	85	115	0	0		
Ethylbenzene	40.19	0.50	40	0	100	85	115	0	0		
m,p-Xylene	81.89	1.0	80	0	102	85	115	0	0		
o-Xylene	39.52	0.50	40	0	98.8	85	115	0	0		
Toluene	41.51	0.50	40	0	104	85	115	0	0		

Sample ID	CCV3_040504	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80912
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.48	0.50	20	0	87.4	85	115	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

CLIENT: Souder, Miller & Associates
 Work Order: 0404042
 Project: 5114224; S&K 1

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	CCV3_040504	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A	
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80912	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene		19.59	0.50	20	0	98	85	115	0	0		
m,p-Xylene		39.58	1.0	40	0	99	85	115	0	0		
o-Xylene		19.39	0.50	20	0	96.9	85	115	0	0		
Toluene		19.72	0.50	20	0	98.6	85	115	0	0		

Sample ID	CCV5_040504	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A	
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80913	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		37.54	0.50	40	0	93.8	85	115	0	0		
Ethylbenzene		41.08	0.50	40	0	103	85	115	0	0		
m,p-Xylene		83.14	1.0	80	0	104	85	115	0	0		
o-Xylene		40.86	0.50	40	0	102	85	115	0	0		
Toluene		41.53	0.50	40	0	104	85	115	0	0		

Sample ID	CCV4_040504	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A	
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80918	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		37.12	0.50	40	0	92.8	85	115	0	0		
Ethylbenzene		40.61	0.50	40	0	102	85	115	0	0		
m,p-Xylene		81.98	1.0	80	0	102	85	115	0	0		
o-Xylene		40.65	0.50	40	0	102	85	115	0	0		
Toluene		40.93	0.50	40	0	102	85	115	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

iiná bá

Date: 10-May-04

CLIENT: Souder, Miller & Associates

Work Order: 0404042

Project: 5114224; S&K 1

Test No: SW8021B

Matrix: W

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	14FBZ	4BCBZ	FLBZ				
0404042-001A	93.1	119	94.2				
0404042-002A	103	125	99.8				
0404045-007AMS	104	122	97.3				
0404045-007AMSD	105	122	97.7				
CCV1_040504	102	127	98.7				
CCV2_040504	102	133	98.0				
CCV3_040504	103	118	97.4				
CCV4_040504	102	124	98.3				
CCV5_040504	102	123	98.5				
LCS1_040504	102	125	99.0				
MB_040504	103	124	99.7				

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	87-124
4BCBZ	= 4-Bromochlorobenzene	75-139
FLBZ	= Fluorobenzene	86-119

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

4061

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Phone: (505) 327-1072 • Fax: (505) 327-1496

Date _____

Page _____ of _____

REPORT RESULTS TO:	Report to: J. HX-STEM				SEND INVOICE TO:	PO No.:		Job No.: 5114224																					
	Company:					Name:																							
	Address:					Company:																							
	City:					Address:																							
Phone:		Fax:		Email:		City:																							
Turnaround Time:		Sample Integrity		Subcontract		Analysis Requested																							
10 days (normal) ☒		Intact _____		Yes _____																									
24-48 hours (100%) _____		On Ice ☒		No ☒																									
3-5 days (50%) _____																													
Sampling Location: S+K-1						NUMBER OF CONTAINERS:	BTX																						
Sample Identification				Sample													Matrix	Pres.											
				Date	Time																								
SR 12				4/26/11	1045												H ₂ O	HCL	2	+									Lab ID
TRIP BLANK				↓	0800												↓	↓	2	+									6-12-12-001A
																													CCCN
Relinquished by: [Signature]				Date/Time: 4/26/11 1110		Received by:				Date/Time:																			
Relinquished by:				Date/Time:		Received by:				Date/Time:																			
Relinquished by:				Date/Time:		Received by:				Date/Time:																			
Comments:																													