

3R - 86

REPORTS

DATE:

2/8/1999



February 8, 1999

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

RECEIVED

RE: 1998 Annual Ground Water Report
Conoco Location: Farmington COM #1
Unit P, Sec. 11, T29N, R13W, NMPM, San Juan Co., NM

FEB 19 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Dear Ms. Ebert:

The following report summarizes the ground water remediation and monitoring activities conducted by On Site Technologies Limited Partnership and/or others on behalf of Conoco, Inc., at the referenced oil and gas location. This report covers the calendar year of 1998, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico*, submitted to the New Mexico Oil Conservation Division on October 15, 1997.

SUMMARY OF 1998 ACTIVITIES:

Ground water monitoring was conducted in March, June, September and December of 1998.

March 1998, MW#1 was re-sampled for lead and chromium to confirm that metals reported in the previous ground water report were still present. Laboratory results indicated that the metals in question were below detection limits.

June 1998, sampling event MW#2 was found to be broken off below the ground level. The broken well casing was removed and a new well installed by hand using a hand auger.

September 1998, sampling event, there was no measurable water in MW#2, well was not placed deep enough to reach the water table. MW#2 will be set deeper by using a backhoe.

September 1998, NMOCD modified the sampling requirements as follows:

- MW#2 and MW#3 historical have had insufficient water for sampling. Place both wells deeper into the water table.
- Install a piezometer down gradient from MW#1.
- Develop and sample the piezometer, if clean discontinue sampling.

December 1998, MW#2 and MW#3 were reset deeper into the water table using a backhoe. A Piezometer was installed west of and down gradient of MW#1. Piezometer was developed and sampled along with MW#1, MW#2, and MW#3.

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

On Site Technologies, Ltd., April 16, 1997: Letter to Mr. W. L. Brignon, Senior Council Conoco, Inc. Midland Division, regarding: Site Assessment, Conoco Location, Farmington Com #1, Unit P, Sec. 11, T29N, R13W, NMPM, San Juan Co., NM.

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

On Site Technologies, Ltd., January 16, 1998: Letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, *regarding: Remediation Summary, Conoco Location, Farmington Com #1, Unit P, Sec. 11, T29N, R13W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 1, 1998: Letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc. Midland Division, *regarding: 1997 Annual Ground Water Report, Conoco Location, Farmington Com #1, Unit P, Sec. 11, T29N, R13W, NMPM, San Juan Co., NM.*

Sampling:

In accordance with the Monitoring plan, water levels were measured on all monitoring wells prior to purging and sampling. Samples were collected, preserved and transported in accordance with Environmental Protection Agency (EPA) prescribed procedures and proper chain-of-custody protocol followed. The laboratory analyses ordered, followed the Conoco Ground Water Plan.

Table 1, summarizes the monitoring well data and water levels measured during previous and current sampling events. Table 2, summarizes the laboratory results for BTEX compounds from all water sampling completed at the referenced site. Table 3, summarizes the laboratory results for metal contamination from MW#1.

Copies of all laboratory reports for calendar year 1998, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

SUMMARY AND CONCLUSIONS:

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

1. BTEX contamination levels have decreased below NMWQCC standard for MW#1 for the last four (4) sampling events.
2. MW#2 and MW#3 have historically sampled below NMWQCC standards.
3. Laboratory results indicate that groundwater impact, due to BTEX constituents, at this location are below NMWQCC Action Levels at all sampling points.
4. RCRA metals analysis shows concentrations of, chromium and lead below detection limits.
5. The Animas River influences ground water flow, at this location.

RECOMMENDATION:

1. Since BTEX contamination levels continued to be below NMWQCC Action Levels, ground water monitoring should be requested to be discontinued through NMOCD.
2. If ground water monitoring is discontinued, monitoring wells and piezometer should be plugged and abandoned in accordance with current regulations.

LIMITATIONS AND CLOSURE:

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

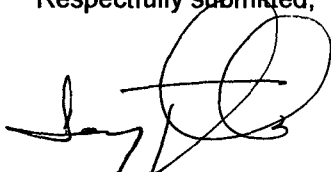
The scope of On Site Technologies' services consisted of project management, periodic water sampling and measurement of water levels, laboratory testing for ground water quality, and preparation of the annual report. All work has been performed in accordance with generally accepted professional practices in geotechnical, petroleum and environmental engineering, and hydrogeology.

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

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

Respectfully submitted,

Reviewed by:



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

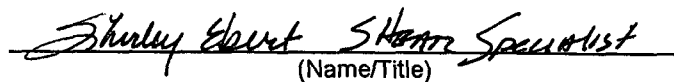


Michael K. Lane, P.E.
Senior Engineer

On Site Technologies, Limited Partnership

Attachments: Table 1: Monitoring Well Details and Ground Water Levels Summary
Table 2: Ground Water BTEX Analytical Summary
Table 3: Other Constituents Analytical Summary
Figure 1: Site Sketch
Figure 2: Ground Water Potentiometric Map (March 1998)
Figure 3: Ground Water Potentiometric Map (June 1998)
Figure 4: Ground Water Potentiometric Map (September 1998)
Figure 5: Ground Water Potentiometric Map (December 1998)
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.


(Name/Title)

2/17/99
(Date)

LET/let: 41372-98.doc

Table 1
Ground Water Level Summary
Farmington COM #1
Unit P, Sec. 11, T29N, R13W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)	Well Type	Screen Interval (ft) (BGS)*	Sample Date	Depth to Groundwater (ft) (BTOC)*	Relative Groundwater Elevation (ft)
MW#1	99.84	9.82	2" PVC	4.82 to 9.82	12/30/97	7.49	92.35
					3/13/97	7.37	92.47
					6/12/98	6.43	93.41
					9/15/98	8.35	91.49
	99.79				12/28/98	6.44	93.35
MW#2	98.80	7.84	2" PVC	2.84 to 7.84	12/30/97	6.75	92.05
					3/13/98	6.77	92.03
					6/12/98	Well Damaged	
					9/15/98	No Measurable Water	
	99.40				12/28/98	7.34	92.06
MW#3	98.98	6.25'	2" PVC		12/30/97	No Measurable Water	
					3/13/98	5.21	93.77
					6/12/98	5.93	93.05
	99.56				9/15/98	No Measurable Water	
					12/28/98	7.46	92.14
Piezometer	100.38	10.01	2" PVC	4.01 to 10.01	12/28/98	8.36	92.02

*BGS - approximate measurements taken as Below Ground Surface
BTOC - Below Top of Casing
NM - Not Measured

- Monitoring Well found broken off below ground level 6/12/98
- 1. Depth measured on 6/12/98 with water in the well
- Location re-surveyed on 12/31/98, MW-1 elevation change due to gas well site activity, all other are due to resetting of well and installation of piezometer.

Table 2
 BTEX Analytical Summary
 Farmington COM #1
 Unit P, Sec. 11, T29N, R13W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Benzene	Toluene	Ethylbenzene	Total Xylene	
12/30/97	17250	MW #1	On Site Lab.	35.3	5.2	10.7	472.9	
3/13/98	9803043-01A	MW#1		BDL	5.4	1.8	12.0	
6/12/98	9806054-01A	MW#1		BDL	BDL	BDL	BDL	
9/15/98	9809033-01A	MW#1		BDL	1.1	1.6	BDL	
12/28/98	9812050-02A	MW#1		BDL	BDL	0.7	0.6	
12/31/97	17253	MW #2	On Site Lab.	BDL	BDL	BDL	BDL	
3/13/98	9803043-02A	MW#2		BDL	BDL	BDL	BDL	
6/12/98	WELL	DAMAGED						
9/15/98			No Measurable Water					
12/29/98	9812052-01A	MW#2		BDL	BDL	BDL	BDL	
12/30/97	No Sample	MW #3	No Measurable Water					
3/13/98	No Sample		No Measurable Water					
6/12/98	9806054-02A		On Site Lab	BDL	BDL	BDL	BDL	
9/15/98			No Measurable Water					
12/29/98	9812052-02A			BDL	1.6	BDL	BDL	
12/28/98	9812050-01A	Piezometer	On Site Lab.	BDL	BDL	BDL	BDL	
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

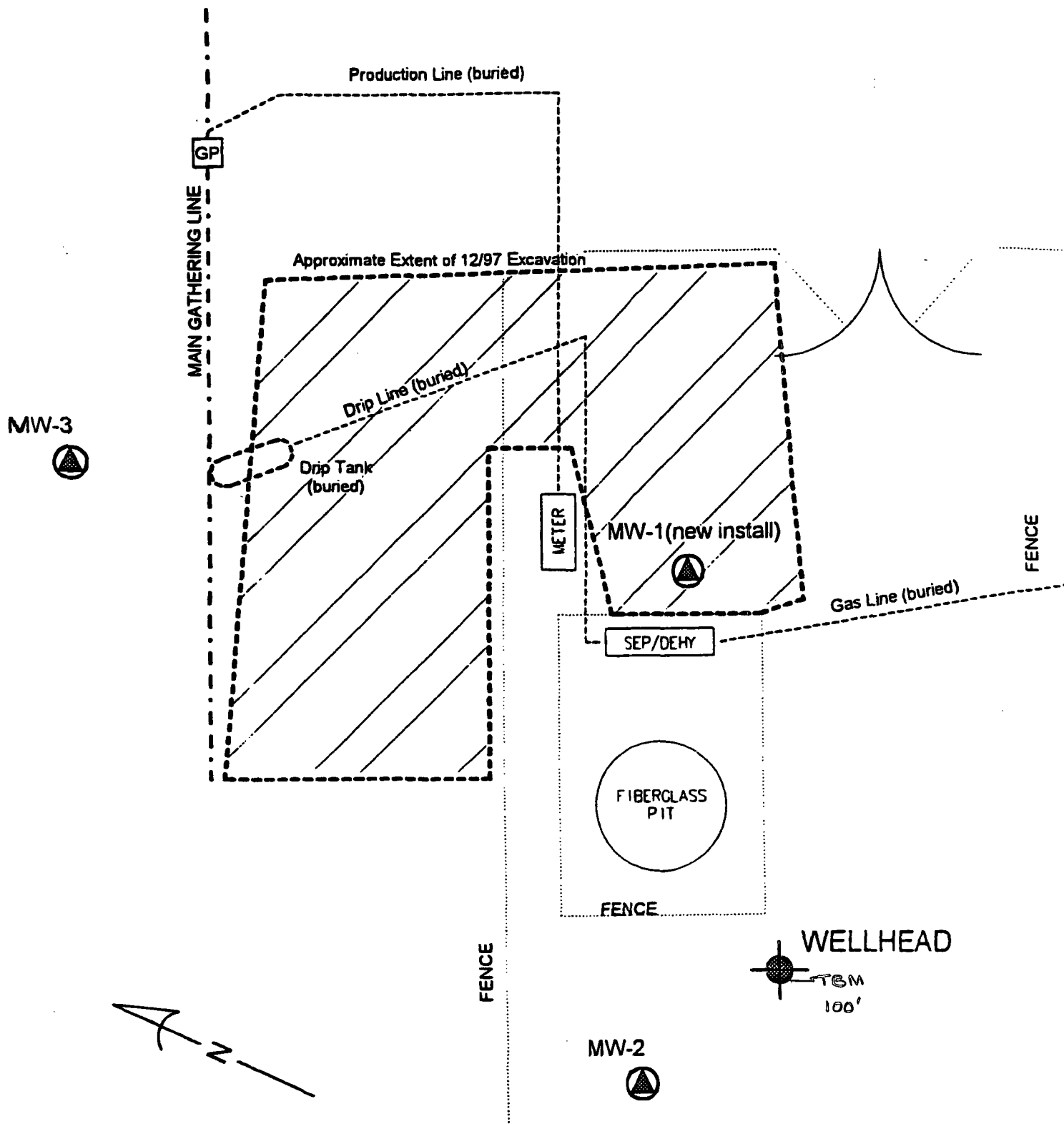
BDL Below Detection Levels

Table 3
Other Constituents Analytical Summary
Farmington COM #1
Unit P, Sec. 11, T29N, R13W

RCRA Metals
Test Method SW-846
03/13/98

PARAMETER	RESULTS	UNITS	WQCC	UNITS
Chromium by ICP	<0.05	mg/L	0.05	mg/L
Lead by ICP	<0.25	mg/L	0.05	mg/L

Suspect that high levels of lead and chromium exhibited, at initial sampling after excavation due to welding operation done to drip tank and pipeline.



Approximate Scale: 1" = 20'
 TBM: Temporary Bench Mark

Farmington COM #1 Unit P, Sec. 11, T29N, R13W, NMPM San Juan County, NM	SITE SKETCH	 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 323-3667
PROJECT: Site Remediation	DRWN: 01-16-98	
PROJECT NO: 4-1372	DRWN BY: MKL	
SHEET: 1	REVISED:	

File: 41750



Approximate Scale: 1" = 20'

Farmington COM #1 Unit P, Sec. 11, T29N, R13W, NMPM San Juan County, NM	Ground Water Potentiometric Map March 13, 1998	 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2816, FARMINGTON, NM 87401 (505) 325-5467
PROJECT: Site Remediation	DRWN: 01-16-98	
PROJECT NO: 4-1372	DRWN BY: MKL	
SHEET: 2A	REVISED: 02-16-99	

MW-3
(93.05)



MAIN GATHERING LINE

Production Line (buried)

METER

MW-1(93.41)



SEP/DEHY

FIBERGLASS
PIT

FENCE

FENCE

FENCE

WELLHEAD



MW-2

Surface Casing
damaged by Merrion Oil

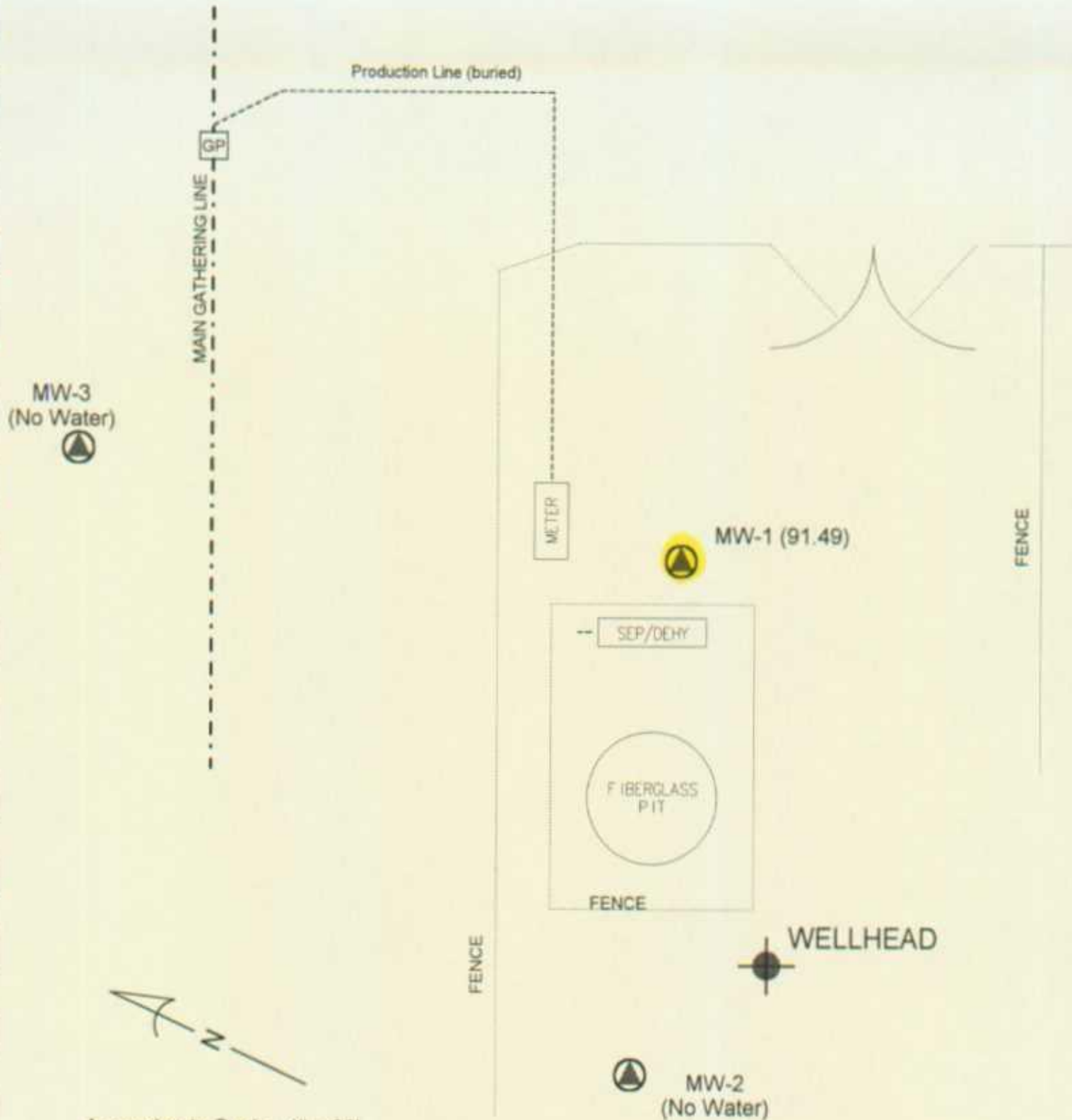


Approximate Scale: 1" = 20'

No ground water surface contours drawn due to limited data.

Farmington COM #1 Unit P, Sec. 11, T29N, R13W, NMPM San Juan County, NM	Ground Water Potentiometric Map June 12, 1998	ON SITE TECHNOLOGIES, LTD. P.O. BOX 2006 FARMINGTON, NM 87401 (505) 325-5667
PROJECT: Site Remediation	DRAWN: 01-15-98	
PROJECT NO: 4-1372	DRAWN BY: MKL	
SHEET: 2b	REVISED: 02-15-98	

File: 4100

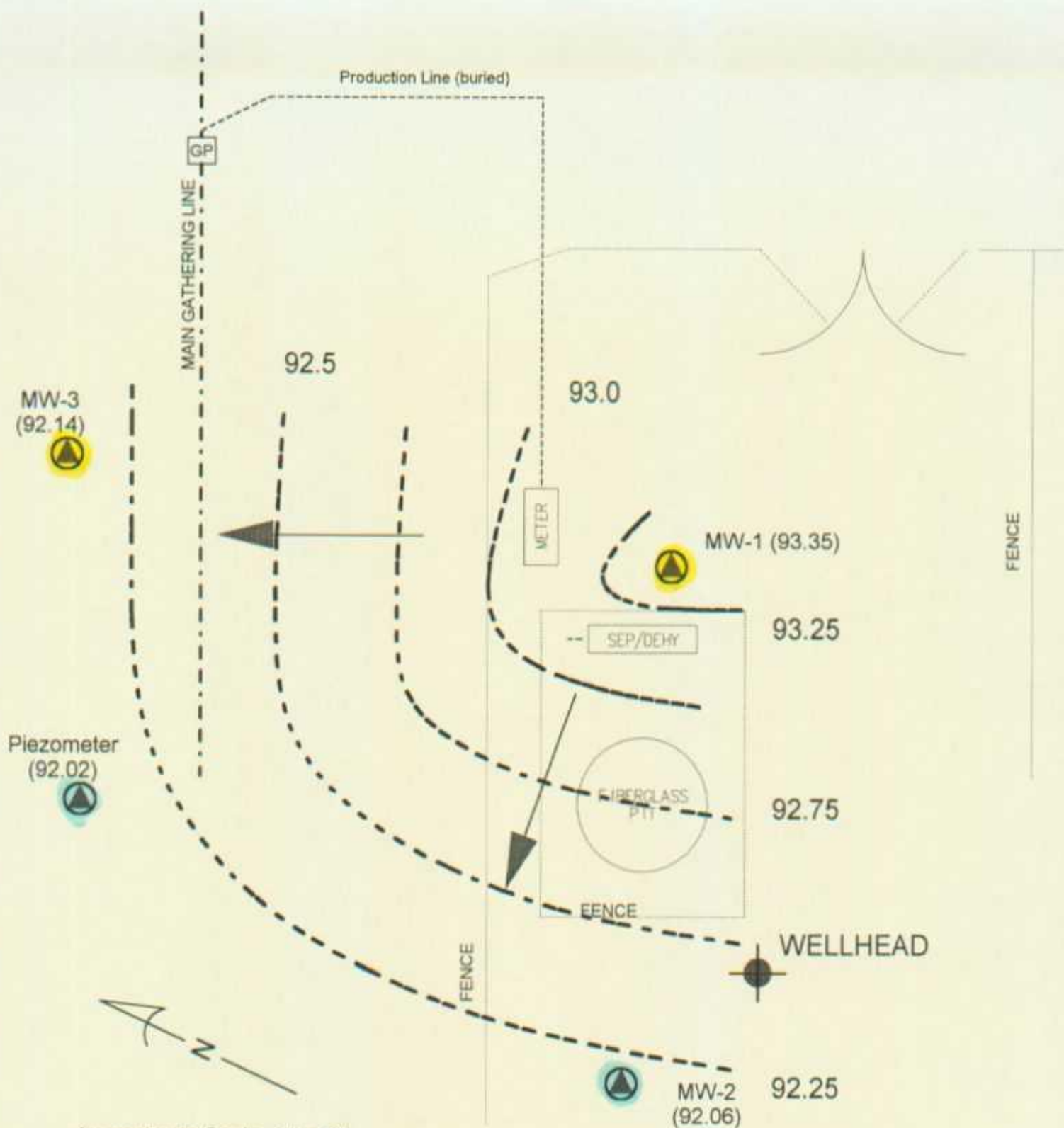


Approximate Scale: 1" = 20'

No ground water surface contours drawn due to limited data.

Farmington COM #1 Unit P, Sec. 11, T29N, R12W, NMPM San Juan County, NM	Ground Water Potentiometric Map September 15, 1998	 ON SITE TECHNOLOGIES, LTD. P.O. BOX 3846 FARMINGTON, NM 87401 (505) 325-5467
PROJECT: Site Remediation	DRWN: 01-15-98	
PROJECT NO: 4-1372	DRWN BY: MKL	
SHEET: 2C	REVISED: 02-16-99	

Sheet 4 of 6



Approximate Scale: 1" = 20'

Farmington COM #1 Unit P, Sec. 11, T29N, R13W, NMPM San Juan County, NM	Ground Water Potentiometric Map December 28, 1998	ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87409 (505) 325-5467
PROJECT: Site Remediation	DRWN: 01-16-98	
PROJECT NO: 4-1372	DRWN BY: MKL	
SHEET: 2D	REVISED: 02-16-99	

Sheet 4 of 6

OFF: (505) 325-5667



LAB: (505) 325-1556

September 25, 1998

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

RE: 4-1372; Conoco

Order No.: 9809033

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 9/15/98 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 the typed name.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership

Project: 4-1372; Conoco

Lab Order: 9809033

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:	Com 1
Work Order:	9809033	Client Sample ID:	MW #1
Lab ID:	9809033-01A	Matrix:	AQUEOUS
Project:	4-1372; Conoco	Collection Date:	9/15/98 9:20:00 AM
		COC Record:	5555

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/L	1	9/21/98
Toluene	1.1	1		µg/L	1	9/21/98
Ethylbenzene	1.6	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

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9809033

Project: 4-1372; 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: 9809033	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: 9809033
Project: 4-1372; 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: 9809033		Run ID: GC-1_980921A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
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: 9809033		Run ID: GC-1_980921A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	184.1		5	200	0.4255	91.8%	56	128
Ethylbenzene	206.4		5	200	0.4985	103.0%	78	107
m,p-Xylene	404.8		10	400	2.556	100.6%	67	118
o-Xylene	196.7		5	200	0.3315	98.2%	78	107
Toluene	199.3		5	200	1.194	99.1%	74	116

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809033
Project: 4-1372; 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: 9809033	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				S
Ethylbenzene	43.12	1	40	0.0623	107.6%	78	107				AKG
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 9/21/98
 MK 10/1/98

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: 9809033

Project: 4-1372; 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: 9809033		Run ID: GC-1_980921A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
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: 9809033		Run ID: GC-1_980921A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
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
Fluorobenzene	85.39		0	100	0	85.4%	70	130

S

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: 9809033

Project: 4-1372; 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: 9809033		Run ID: GC-1_980921A		PQL		SPK value		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				S
4-Bromochlorobenzene	63.38	0		100		0		63.4%	70	130				
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: 9809033
Project: 4-1372; 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					
MBI	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

ON SITE

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

Page

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

Page _____ of _____

Date:

TECHNOLOGIES, LTD.

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

[illegible]

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



LAB: (505) 325-1556

June 22, 1998

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

RE: 4-1372; Conoco

Order No.: 9806054

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 6/12/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

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

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

Sincerely,

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

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 22-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Project: 4-1372; Conoco
Lab Order: 9806054

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: 22-Jun-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington Com #1
Work Order:	9806054	Client Sample ID:	MW #1
Lab ID:	9806054-01A	Matrix:	AQUEOUS
Project:	4-1372; Conoco	Collection Date:	6/12/98 8:48:00 AM
		COC Record:	5147

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	6/16/98
Toluene	ND	0.5		µg/L	1	6/16/98
Ethylbenzene	ND	0.5		µg/L	1	6/16/98
m,p-Xylene	ND	1		µg/L	1	6/16/98
o-Xylene	ND	0.5		µg/L	1	6/16/98

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 -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 22-Jun-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington Com #1
Work Order:	9806054	Client Sample ID:	MW #3
Lab ID:	9806054-02A	Matrix:	AQUEOUS
Project:	4-1372; Conoco	Collection Date:	6/12/98 9:09:00 AM
		COC Record:	5147

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	0.5		µg/L	1	6/16/98
Toluene	ND	0.5		µg/L	1	6/16/98
Ethylbenzene	ND	0.5		µg/L	1	6/16/98
m,p-Xylene	ND	1		µg/L	1	6/16/98
o-Xylene	ND	0.5		µg/L	1	6/16/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 22-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806054

Project: 4-1372; Conoco

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980616	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/16/98	Prep Date:						
Client ID:	9806054	Run ID: GC-1_980616A		SeqNo: 3136							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0478	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	.1193	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0988	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: 22-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806054

Project: 4-1372; Conoco

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9806052-02AMS		Batch ID: GC-1_980616		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/16/98		Prep Date:	
Client ID:		9806054		Run ID:		GC-1_980616A		SeqNo: 3137			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1823	10	800	1021	100.3%	56	128				
Ethylbenzene	1178	10	800	404.6	96.7%	78	107				
m,p-Xylene	2263	20	1600	739.2	95.2%	67	118				
Methyl tert-Butyl Ether	776.8	20	800	22.28	94.3%	70	130				
o-Xylene	1042	10	800	243.9	99.8%	78	107				
Toluene	1298	10	800	507.9	98.8%	74	116				

Sample ID: 9806052-02AMSD		Batch ID: GC-1_980616		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/16/98		Prep Date:	
Client ID:		9806054		Run ID:		GC-1_980616A		SeqNo: 3138			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1771	10	800	1021	93.8%	56	128	1823	2.9%	12	
Ethylbenzene	1146	10	800	404.6	92.7%	78	107	1178	2.7%	11	
m,p-Xylene	2188	20	1600	739.2	90.6%	67	118	2263	3.3%	10	
Methyl tert-Butyl Ether	760.7	20	800	22.28	92.3%	70	130	776.8	2.1%	15	
o-Xylene	1026	10	800	243.9	97.8%	78	107	1042	1.5%	14	
Toluene	1264	10	800	507.9	94.5%	74	116	1298	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: 22-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806054
Project: 4-1372; Conoco

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980616	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/16/98		Prep Date:	
Client ID: 9806054		Run ID: GC-1_980616A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	41.01		0.5	40	0.0478	102.4%	56	128
Ethylbenzene	41.79		0.5	40	0	104.5%	78	107
m,p-Xylene	79.51		1	80	0.1193	99.2%	67	118
Methyl tert-Butyl Ether	44.96		1	40	0	112.4%	70	130
o-Xylene	40.79		0.5	40	0	102.0%	78	107
Toluene	40.42		0.5	40	0.0988	100.8%	74	116

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 22-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806054

Project: 4-1372; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980616	Test Code: SW8020A	Units: µg/L		Analysis Date: 6/16/98		Prep Date:	
Client ID: 9806054		Run ID: GC-1_980616A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 3132
Analyte	Result								
Benzene	21.71		0.5	20	0	108.5%	85	115	
Ethylbenzene	22.4		0.5	20	0	112.0%	85	115	
m,p-Xylene	42.29		1	40	0	105.7%	85	115	
Methyl tert-Butyl Ether	23.12		1	20	0	115.6%	85	115	S
o-Xylene	21.74		0.5	20	0	108.7%	85	115	
Toluene	21.52		0.5	20	0	107.6%	85	115	
1,4-Difluorobenzene	93.47		0	100	0	93.5%	70	130	
4-Bromochlorobenzene	85.45		0	100	0	85.4%	70	130	
Fluorobenzene	93.66		0	100	0	93.7%	70	130	

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980616	Test Code: SW8020A	Units: µg/L		Analysis Date: 6/16/98		Prep Date:	
Client ID: 9806054		Run ID: GC-1_980616A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 3133
Analyte	Result								
Benzene	20.55		0.5	20	0	102.8%	85	115	
Ethylbenzene	21.3		0.5	20	0	106.5%	85	115	
m,p-Xylene	39.94		1	40	0	99.9%	85	115	
Methyl tert-Butyl Ether	21.29		1	20	0	106.5%	85	115	
o-Xylene	21.45		0.5	20	0	107.2%	85	115	
Toluene	20.47		0.5	20	0	102.3%	85	115	
1,4-Difluorobenzene	93.62		0	100	0	93.6%	70	130	
4-Bromochlorobenzene	83.56		0	100	0	83.6%	70	130	
Fluorobenzene	93.34		0	100	0	93.3%	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: 9806054

Project: 4-1372; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980616		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/16/98		Prep Date:	
Client ID: 9806054		Run ID: 980616A		GC-1_980616A				SeqNo: 3134			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.28	0.5	40	0	100.7%	85	115				
Ethylbenzene	40.18	0.5	40	0	100.5%	85	115				
m,p-Xylene	77.38	1	80	0	96.7%	85	115				
Methyl tert-Butyl Ether	37.36	1	40	0	93.4%	85	115				
o-Xylene	40.35	0.5	40	0	100.9%	85	115				
Toluene	40.24	0.5	40	0	100.6%	85	115				
1,4-Difluorobenzene	92.6	0	100	0	92.6%	70	130				
4-Bromochlorobenzene	80.3	0	100	0	80.3%	70	130				
Fluorobenzene	93.09	0	100	0	93.1%	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: 22-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806054
Project: 4-1372; Conoco
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ					
9806014-03A	92.3	86.2	93					
9806014-04A	91.9	86.7	92.8					
9806014-05A	92	86.3	93.2					
9806043-03A	93.3	84	94.6					
9806043-04A	93.2	82.9	94.6					
9806044-03A	93.8	86.5	94					
9806044-04A	92.3	85.8	95.6					
9806044-05A	93.3	86.1	94.2					
9806045-01A	90.2	84.9	91.2					
9806052-01A	90.4	83.2	90.4					
9806052-02A	92.4	75.5	93.2					
9806052-02AMS	91.9	86.3	92.5					
9806052-02AMSD	92.4	85.4	92.6					
9806052-03A	93.5	85.8	94.6					
9806053-01A	99.2	103	125					
9806053-02A	93.4	82.8	94.1					
9806053-03A	93.5	82.4	94.1					
9806054-01A	93.3	82.3	94.3					
9806054-02A	93.6	81.9	94					
9806055-01A	94	81.1	93.8					
9806055-02A	91.8	81.8	93.8					
9806058-01A	93.8	85.9	94.1					
9806058-02A	97.8	82.9	93.9					
9806063-01A	94.8	84	94.4					
9806063-02A	93.6	87.3	94.6					
CCV1 QC0529/30	93.5	85.4	93.7					
CCV2 QC0529/30	93.6	83.6	93.3					

Acronym

Surrogate

QC Limits

14FBZ	=	1,4-Difluorobenzene	70-130
4BCBZ	=	4-Bromochlorobenzene	70-130
FLBZ	=	Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806054
Project: 4-1372; Conoco
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ					
CCV3 QC0529/30	92.6	80.3	93.1					
LCS WATER	93.8	85.4	93.7					
MB1	93.6	84.4	94.4					

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

* Surrogate recovery outside acceptance limits

ON SITE

TECHNOLOGIES, LTD.

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Page 1 of 1[illegible]

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

Page _____ of _____

Date: _____

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

[illegible]

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



LAB: (505) 325-1556

April 14, 1998

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

RE: 4-1372

Order No.: 9803043

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 3/13/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

AQPREP TOTAL METALS: ICP (SW3010A)
BTEX (SW8020A)
ICP METALS, TCLP Leached (SW1311/6010A)
TCLP Sample Prep (Metals) (SW1311)

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,


David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 14-Apr-98

CLIENT: Conoco, Inc.

Project: 4-1372

Lab Order: 9803043

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: 14-Apr-98

Client:	Conoco, Inc.	Client Sample Info:	Farmington Com 1
Work Order:	9803043	Client Sample ID:	MW #1
Lab ID:	9803043-01A	Matrix:	AQUEOUS
Project:	4-1372	Collection Date:	3/13/98 10:24:00 AM
		COC Record:	6905

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	3/19/98
Toluene	5.4	0.5		µg/L	1	3/19/98
Ethylbenzene	1.8	0.5		µg/L	1	3/19/98
m,p-Xylene	12	1		µg/L	1	3/19/98
o-Xylene	ND	0.5		µg/L	1	3/19/98
Surr: Fluorobenzene	93.0	70-130		%REC	1	3/19/98
Surr: 1,4-Difluorobenzene	93.8	70-130		%REC	1	3/19/98
Surr: 4-Bromochlorobenzene	90.3	70-130		%REC	1	3/19/98

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 -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-Apr-98

Client:	Conoco, Inc.	Client Sample Info:	Farmington Com 1
Work Order:	9803043	Client Sample ID:	MW #2
Lab ID:	9803043-02A	Matrix:	AQUEOUS
Project:	4-1372	Collection Date:	3/13/98 10:30:00 AM
		COC Record:	6905

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	0.5		µg/L	1	3/19/98
Toluene	ND	0.5		µg/L	1	3/19/98
Ethylbenzene	ND	0.5		µg/L	1	3/19/98
m,p-Xylene	ND	1		µg/L	1	3/19/98
o-Xylene	ND	0.5		µg/L	1	3/19/98
Surr: Fluorobenzene	93.3	70-130		%REC	1	3/19/98
Surr: 1,4-Difluorobenzene	93.6	70-130		%REC	1	3/19/98
Surr: 4-Bromochlorobenzene	91.9	70-130		%REC	1	3/19/98

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: 14-Apr-98

CLIENT: Conoco, Inc.
Work Order: 9803043
Project: 4-1372

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: 9803043	Run ID: GC-1_980319A	PQL	SPK value	SeqNo: 93	
Analyte	Result	PQL	SPK value	LowLimit	HighLimit
Benzene	.1309	0.5		%REC	RPD Ref Val
Ethylbenzene	.1039	0.5		%RPD	RPDLimit
m,p-Xylene	.2979	1			Qual
o-Xylene	.1068	0.5			
Toluene	.1636	0.5			

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 14-Apr-98

CLIENT: Conoco, Inc.
Work Order: 9803043
Project: 4-1372

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: 9803043	Run ID: GC-1_980319A	PQL	SPK value	SeqNo: 94	
Analyte	Result	PQL	SPK Ref Val	LowLimit	HighLimit
Benzene	942.9	10	105.3	56	128
Ethylbenzene	921.7	10	92.88	78	107
m,p-Xylene	2403	20	765.4	67	118
o-Xylene	957.2	10	124	78	107
Toluene	937.4	10	108.7	74	116
			%REC	%RPD	RPDLimit
			104.7%		Qual
			103.6%		
			102.4%		
			104.2%		
			103.6%		

Sample ID: 9803032-06AMSD	Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date 3/19/98	Prep Date:
Client ID: 9803043	Run ID: GC-1_980319A	PQL	SPK value	SeqNo: 95	
Analyte	Result	PQL	SPK Ref Val	LowLimit	HighLimit
Benzene	891.1	10	105.3	56	128
Ethylbenzene	893.1	10	92.88	78	107
m,p-Xylene	2296	20	765.4	67	118
o-Xylene	907.8	10	124	78	107
Toluene	886.7	10	108.7	74	116
			%REC	%RPD	RPDLimit
			98.2%		15
			100.0%		15
			95.7%		15
			98.0%		15
			97.2%		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: 14-Apr-98

CLIENT: Conoco, Inc.

Work Order: 9803043

Project: 4-1372

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: 9803043		Run ID: GC-1_980319A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
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: 14-Apr-98

CLIENT: Conoco, Inc.

Work Order: 9803043

Project: 4-1372

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: 9803043		Run ID: GC-1_980319A		PQL		SPK value		SeqNo: 87			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.65	0.5	20	0	103.3%	85	115				
Ethylbenzene	20.65	0.5	20	0	103.2%	85	115				
m,p-Xylene	39.56	1	40	0	98.9%	85	115				
o-Xylene	20.62	0.5	20	0	103.1%	85	115				
Toluene	20.4	0.5	20	0	102.0%	85	115				
1,4-Difluorobenzene	93.88	0	100	0	93.9%	70	130				
4-Bromochlorobenzene	90.08	0	100	0	90.1%	70	130				
Fluorobenzene	92.88	0	100	0	92.9%	70	130				

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date 3/19/98		Prep Date:	
Client ID: 9803043		Run ID: GC-1_980319A		PQL		SPK value		SeqNo: 88			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.63	0.5	20	0	108.2%	85	115				
Ethylbenzene	22.12	0.5	20	0	110.6%	85	115				
m,p-Xylene	41.81	1	40	0	104.5%	85	115				
o-Xylene	21.67	0.5	20	0	108.3%	85	115				
Toluene	21.33	0.5	20	0	106.6%	85	115				
1,4-Difluorobenzene	94.01	0	100	0	94.0%	70	130				
4-Bromochlorobenzene	91.89	0	100	0	91.9%	70	130				
Fluorobenzene	92.94	0	100	0	92.9%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Conoco, Inc.

Work Order: 9803043

Project: 4-1372

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: 9803043		Run ID: GC-1_980319A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 89
Analyte	Result								
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: 9803043		Run ID: GC-1_980319A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 90
Analyte	Result								
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	

SV
CONFIRM
CCV5
4/14/98

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: 9803043
 Project: 4-1372

QC SUMMARY REPORT

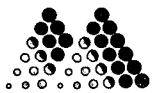
Continuing Calibration Verification Standard

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: 9803043		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



Mountain States Analytical, Inc.

The Quality Solution

RECEIVED APR 13 1998 (M)

April 8, 1998

Mr. David Cox
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Reference:

Project: TCLP Cr/Pb Analysis
MSAI Group: 21553

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following sample is included in the report.

9803043-01B Farmington Com 1; MW#1 (M)

All holding times were met for the tests performed on these samples.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

Rolf E. Larsen
Project Manager

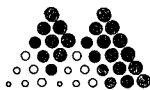
10
Years of
Quality
Service

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1645 West 2200 South, Salt Lake City, Utah 84119
801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278
e-mail: service@msailabs.com

Southwest States Region
6223 Bayonne, Spring, Texas 77389
281-320-2842 • FAX 281-320-0989
e-mail: gbrewer@msailabs.com



Analytical Report



Mountain States Analytical, Inc.

The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: TCLP Cr/Pb Analysis

Sample ID: 9803043-01B Farmington Com 1; MW#1
Matrix: Waste Water

MSAI Sample: 76832
MSAI Group: 21553
Date Reported: 04/08/98
Discard Date: 05/08/98
Date Submitted: 03/19/98
Date Sampled: 03/13/98
Collected by:
Purchase Order:
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
0391E	Flame/ICP Re-digest, TCLP, 3010A Method: SW-846 3010A	Batch. w192		
0392T	Flame/ICP Prep, TCLP, 3010A Method: SW-846 3010A	Batch. w181		
13002	Metals by ICP, 6010A, TCLP Method: SW-846 6010A			
	Chromium	ND	mg/l	0.050
	Lead	ND	mg/l	0.25
0945I	TCLP Filtration, ICP Metals, <0.5% Method: SW-846 1311	0.030	% Solids	0.001

ND - Not detected at the limit of quantitation

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,
Reviewed and Approved by:


Rolf E. Larsen
Project Manager

10
Years of
Quality
Service

Corporate Office
1645 West 2200 South, Salt Lake City, Utah 84119
801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278
e-mail: service@msailabs.com

Southwest States Region
6223 Bayonne, Spring, Texas 77389
281-320-2842 • FAX 281-320-0989
e-mail: gbrewer@msailabs.com



Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

04/08/98
13:01:35
Group: 21553

Analysis Batch Number: HREXT-04/03/98-114 -1

Test Identification : HREXT-Metals for hr TCLP, by ICP

Sequence : DATP093

Number of Samples : 15

Batch Date/Time : 04/08/98 / 10:01:20

BLANK#	ANALYTE	CONC FOUND #	CONC LIMIT
1660-77188	Silver	0.0002	0.0030
	Arsenic	ND	0.0150
	Barium	0.3062(1e)	0.0020
	Beryllium	ND	0.0003
	Cadmium	0.0001	0.0010
	Chromium	0.0014	0.0050
	Copper	0.0090(A2)	0.0050
	Nickel	0.0044	0.0150
	Lead	0.0039	0.0150
	Antimony	ND	0.0200
	Selenium	ND	0.0150
	Thallium	0.0006	0.0080
	Vanadium	0.0000	0.0040
	Zinc	0.4019(1e)	0.0150
PBW1-192-2	Silver	0.0001	0.0030
	Arsenic	ND	0.0150
	Barium	0.0004	0.0020
	Beryllium	ND	0.0003
	Cadmium	0.0001	0.0010
	Chromium	0.0006	0.0050
	Copper	0.0028	0.0050
	Nickel	0.0009	0.0150
	Lead	ND	0.0150
	Antimony	ND	0.0200
	Selenium	ND	0.0150
	Thallium	0.0022	0.0080
	Vanadium	0.0000	0.0040
	Zinc	0.0020	0.0150
PBW2-192-3	Silver	ND	0.0030
	Arsenic	ND	0.0150
	Barium	0.0000	0.0020
	Beryllium	ND	0.0003
	Cadmium	0.0002	0.0010
	Chromium	0.0006	0.0050
	Copper	0.0013	0.0050
	Nickel	ND	0.0150
	Lead	ND	0.0150
	Antimony	0.0044	0.0200
	Selenium	ND	0.0150
	Thallium	0.0055	0.0080
	Vanadium	ND	0.0040
	Zinc	0.0019	0.0150

PIKE	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS	
SAMPLE#						LOWER	UPPER
21660-77178	Silver	0.5000	-0.0027	0.4986	100.3	80.0	120.0
	Arsenic	5.0000	0.1843	5.6510	109.3	80.0	120.0
	Barium	10.0000	0.3441	7.3362	69.9(8a)	80.0	120.0
	Beryllium	0.0250	0.0000	0.0223	89.2	80.0	120.0
	Cadmium	0.2500	-0.0004	0.2257	90.4	80.0	120.0

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

04/08/98
13:01:36
Group: 21553

Analysis Batch Number: HREXT-04/03/98-114 -1

Test Identification : HREXT-Metals for hr TCLP, by ICP

Sequence : DATP093

Number of Samples : 15

Batch Date/Time : 04/08/98 / 10:01:20

SPIKE							QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #		LOWER	UPPER
21660-77178	Chromium	1.0000	0.0074	0.9902	98.3		80.0	120.0
	Copper	0.5000	0.0041	0.5038	99.9		80.0	120.0
	Nickel	5.0000	0.0007	4.6205	92.4		80.0	120.0
	Lead	0.5000	0.0593	0.5008	88.3		80.0	120.0
	Antimony	2.5000	0.0263	2.6357	104.4		80.0	120.0
	Selenium	0.2500	0.0347	0.3141	111.7		80.0	120.0
	Thallium	0.1000	0.0044	0.0956	91.2		80.0	120.0
	Vanadium	0.1000	0.0122	0.1109	98.7		80.0	120.0
	Zinc	5.0000	0.0172	5.2778	105.2		80.0	120.0
1660-77178-2	Silver	0.5000	-0.0027	0.4817	96.9		50.0	150.0
	Arsenic	5.0000	0.1843	5.5752	107.8		50.0	150.0
	Barium	10.0000	0.3441	5.6043	52.6		50.0	150.0
	Beryllium	0.0250	0.0000	0.0231	92.4		50.0	150.0
	Cadmium	0.2500	-0.0004	0.2333	93.5		50.0	150.0
	Chromium	1.0000	0.0074	0.9496	94.2		50.0	150.0
	Copper	0.5000	0.0041	0.4771	94.6		50.0	150.0
	Nickel	5.0000	0.0007	4.5818	91.6		50.0	150.0
	Lead	0.5000	0.0593	0.4756	83.3		50.0	150.0
	Antimony	2.5000	0.0263	2.4442	96.7		50.0	150.0
	Selenium	0.2500	0.0347	0.2301	78.1		50.0	150.0
	Thallium	0.1000	0.0044	0.0954	91.0		50.0	150.0
	Vanadium	0.1000	0.0122	0.1145	102.3		50.0	150.0
	Zinc	5.0000	0.0172	5.2658	105.0		50.0	150.0

MSD							QC LIMITS			
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #		LOWER	UPPER	RPD #	LIMIT
1660-77178	Silver	0.5000	-0.0027	0.5101	102.6		80.0	120.0	2.3	20.0
	Arsenic	5.0000	0.1843	5.7242	110.8		80.0	120.0	1.3	20.0
	Barium	10.0000	0.3441	7.9931	76.5(8a)		80.0	120.0	8.6	20.0
	Beryllium	0.0250	0.0000	0.0224	89.6		80.0	120.0	0.4	20.0
	Cadmium	0.2500	-0.0004	0.2272	91.0		80.0	120.0	0.7	20.0
	Chromium	1.0000	0.0074	1.0004	99.3		80.0	120.0	1.0	20.0
	Copper	0.5000	0.0041	0.5116	101.5		80.0	120.0	1.5	20.0
	Nickel	5.0000	0.0007	4.6485	93.0		80.0	120.0	0.6	20.0
	Lead	0.5000	0.0593	0.5107	90.3		80.0	120.0	2.0	20.0
	Antimony	2.5000	0.0263	2.7123	107.4		80.0	120.0	2.9	20.0
	Selenium	0.2500	0.0347	0.3019	106.9		80.0	120.0	4.0	20.0
	Thallium	0.1000	0.0044	0.0972	92.8		80.0	120.0	1.6	20.0
	Vanadium	0.1000	0.0122	0.1125	100.3		80.0	120.0	1.4	20.0
	Zinc	5.0000	0.0172	5.2925	105.5		80.0	120.0	0.3	20.0

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
1660-77178	Silver	-0.0027	0.0000	200.0(11)	20.0	1.00
	Arsenic	0.1843	0.1762	4.5	20.0	1.00
	Barium	0.3441	0.3372	2.0	20.0	1.00
	Beryllium	0.0000	0.0000	200.0(11)	20.0	1.00
	Cadmium	-0.0004	0.0000	200.0(11)	20.0	1.00
	Chromium	0.0074	0.0067	9.5	20.0	1.00

Analysis Batch Number: HREXT-04/03/98-114 -1

Test Identification : HREXT-Metals for hr TCLP, by ICP

Sequence : DATP093

Number of Samples : 15

Batch Date/Time : 04/08/98 / 10:01:20

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
21660-77178	Copper	0.0041	0.0233	139.7(5a)	20.0	1.00
	Nickel	0.0007	0.0012	49.7(11)	20.0	1.00
	Lead	0.0593	0.0514	14.2	20.0	1.00
	Antimony	0.0263	0.0049	137.4(5a)	20.0	1.00
	Selenium	0.0347	0.0402	14.6	20.0	1.00
	Thallium	0.0044	0.0149	108.9(5a)	20.0	1.00
	Vanadium	0.0122	0.0120	1.7	20.0	1.00
	Zinc	0.0172	0.0194	12.2	20.0	1.00

CONTROL

SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS	
CSW-192	Silver	0.0485	0.0500	97.0	80.0	120.0
	Arsenic	1.9434	2.0000	97.2	80.0	120.0
	Barium	1.8638	2.0000	93.2	80.0	120.0
	Beryllium	0.0489	0.0500	97.9	80.0	120.0
	Cadmium	0.0476	0.0500	95.2	80.0	120.0
	Chromium	0.1923	0.2000	96.2	80.0	120.0
	Copper	0.2633	0.2500	105.3	80.0	120.0
	Nickel	0.4913	0.5000	98.3	80.0	120.0
	Lead	0.4870	0.5000	97.4	80.0	120.0
	Antimony	0.9429	1.0000	94.3	80.0	120.0
	Selenium	1.9732	2.0000	98.7	80.0	120.0
	Thallium	1.8730	2.0000	93.7	80.0	120.0
	Vanadium	0.4924	0.5000	98.5	80.0	120.0
	Zinc	0.4790	0.5000	95.8	80.0	120.0

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS	
ICV-	Silver	0.1000	0.1007	100.7	90.0	110.0
	Arsenic	0.4000	0.4000	100.0	90.0	110.0
	Barium	1.0000	0.9815	98.1	90.0	110.0
	Beryllium	0.1000	0.0982	98.2	90.0	110.0
	Cadmium	1.0000	0.9802	98.0	90.0	110.0
	Chromium	1.0000	0.9742	97.4	90.0	110.0
	Copper	1.0000	0.9585	95.9	90.0	110.0
	Nickel	2.0000	1.9594	98.0	90.0	110.0
	Lead	5.0000	4.9094	98.2	90.0	110.0
	Antimony	1.0000	1.0161	101.6	90.0	110.0
	Selenium	0.4000	0.3964	99.1	90.0	110.0
	Thallium	1.0000	0.9646	96.5	90.0	110.0
	Vanadium	0.4000	0.4074	101.8	90.0	110.0
	Zinc	1.0000	0.9841	98.4	90.0	110.0
CV1--2	Silver	0.1000	0.0995	99.5	90.0	110.0
	Arsenic	0.4000	0.3921	98.0	90.0	110.0
	Barium	1.0000	0.9734	97.3	90.0	110.0
	Beryllium	0.1000	0.1002	100.2	90.0	110.0
	Cadmium	1.0000	0.9706	97.1	90.0	110.0
	Chromium	1.0000	0.9733	97.3	90.0	110.0
	Copper	1.0000	0.9547	95.5	90.0	110.0

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting04/08/98
13:01:37
Group: 21553

Analysis Batch Number: HREXT-04/03/98-114 -1

Test Identification : HREXT-Metals for hr TCLP, by ICP

Sequence : DATP093

Number of Samples : 15

Batch Data-Date/Time : 04/08/98 / 10:01:20

CV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS	
					LOWER	UPPER
CCV1--2	Nickel	2.0000	1.9900	99.5	90.0	110.0
	Lead	5.0000	4.9166	98.3	90.0	110.0
	Antimony	1.0000	0.9951	99.5	90.0	110.0
	Selenium	0.4000	0.3964	99.1	90.0	110.0
	Thallium	1.0000	0.9487	94.9	90.0	110.0
	Vanadium	0.4000	0.4105	102.6	90.0	110.0
	Zinc	1.0000	0.9812	98.1	90.0	110.0
CCV2--3	Silver	0.1000	0.1002	100.2	90.0	110.0
	Arsenic	0.4000	0.3952	98.8	90.0	110.0
	Barium	1.0000	0.9721	97.2	90.0	110.0
	Beryllium	0.1000	0.1001	100.1	90.0	110.0
	Cadmium	1.0000	0.9666	96.7	90.0	110.0
	Chromium	1.0000	0.9709	97.1	90.0	110.0
	Copper	1.0000	0.9596	96.0	90.0	110.0
	Nickel	2.0000	1.9717	98.6	90.0	110.0
	Lead	5.0000	4.8843	97.7	90.0	110.0
	Antimony	1.0000	1.0039	100.4	90.0	110.0
	Selenium	0.4000	0.3801	95.0	90.0	110.0
	Thallium	1.0000	0.9389	93.9	90.0	110.0
	Vanadium	0.4000	0.4106	102.7	90.0	110.0
	Zinc	1.0000	0.9817	98.2	90.0	110.0
CCV3--4	Silver	0.1000	0.1003	100.3	90.0	110.0
	Arsenic	0.4000	0.3882	97.1	90.0	110.0
	Barium	1.0000	0.9566	95.7	90.0	110.0
	Beryllium	0.1000	0.0997	99.7	90.0	110.0
	Cadmium	1.0000	0.9543	95.4	90.0	110.0
	Chromium	1.0000	0.9570	95.7	90.0	110.0
	Copper	1.0000	0.9509	95.1	90.0	110.0
	Nickel	2.0000	1.9545	97.7	90.0	110.0
	Lead	5.0000	4.8090	96.2	90.0	110.0
	Antimony	1.0000	0.9945	99.4	90.0	110.0
	Selenium	0.4000	0.3842	96.0	90.0	110.0
	Thallium	1.0000	0.9325	93.2	90.0	110.0
	Vanadium	0.4000	0.4084	102.1	90.0	110.0
	Zinc	1.0000	0.9754	97.5	90.0	110.0
CCV4--5	Silver	0.1000	0.0978	97.8	90.0	110.0
	Arsenic	0.4000	0.3937	98.4	90.0	110.0
	Barium	1.0000	0.9520	95.2	90.0	110.0
	Beryllium	0.1000	0.1004	100.4	90.0	110.0
	Cadmium	1.0000	0.9649	96.5	90.0	110.0
	Chromium	1.0000	0.9521	95.2	90.0	110.0
	Copper	1.0000	0.9234	92.3	90.0	110.0
	Nickel	2.0000	1.9980	99.9	90.0	110.0
	Lead	5.0000	4.9331	98.7	90.0	110.0
	Antimony	1.0000	0.9700	97.0	90.0	110.0
	Selenium	0.4000	0.3872	96.8	90.0	110.0
	Thallium	1.0000	0.9369	93.7	90.0	110.0
	Vanadium	0.4000	0.4069	101.7	90.0	110.0
	Zinc	1.0000	0.9826	98.3	90.0	110.0

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting04/08/98
13:01:37
Group: 21553

Analysis Batch Number: HREXT-04/03/98-114 -1

Test Identification : HREXT-Metals for hr TCLP, by ICP

Sequence : DATP093

Number of Samples : 15

Batch Data-Date/Time : 04/08/98 / 10:01:20

CB#	ANALYTE	CONC FOUND #	CONC LIMIT
CB-	Silver	ND	0.0030
	Arsenic	ND	0.0150
	Barium	ND	0.0020
	Beryllium	ND	0.0003
	Cadmium	0.0001	0.0010
	Chromium	0.0001	0.0050
	Copper	ND	0.0050
	Nickel	ND	0.0150
	Lead	ND	0.0150
	Antimony	ND	0.0200
	Selenium	ND	0.0150
	Thallium	0.0082	0.0120
	Vanadium	0.0003	0.0040
	Zinc	0.0002	0.0150
CCB1-	Silver	0.0001	0.0030
	Arsenic	ND	0.0150
	Barium	ND	0.0020
	Beryllium	ND	0.0003
	Cadmium	ND	0.0010
	Chromium	0.0004	0.0050
	Copper	ND	0.0050
	Nickel	0.0001	0.0150
	Lead	ND	0.0150
	Antimony	ND	0.0200
	Selenium	ND	0.0150
	Thallium	0.0030	0.0080
	Vanadium	ND	0.0040
	Zinc	ND	0.0150
CCB2-	Silver	ND	0.0030
	Arsenic	ND	0.0150
	Barium	0.0002	0.0020
	Beryllium	0.0000	0.0003
	Cadmium	0.0002	0.0010
	Chromium	0.0002	0.0050
	Copper	0.0002	0.0050
	Nickel	0.0004	0.0150
	Lead	0.0002	0.0150
	Antimony	ND	0.0200
	Selenium	ND	0.0150
	Thallium	0.0034	0.0080
	Vanadium	ND	0.0040
	Zinc	0.0000	0.0150
CCB3-	Silver	0.0000	0.0030
	Arsenic	ND	0.0150
	Barium	0.0000	0.0020
	Beryllium	ND	0.0003
	Cadmium	ND	0.0010
	Chromium	0.0001	0.0050
	Copper	ND	0.0050
	Nickel	ND	0.0150

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

04/08/98
13:01:38
Group: 21553

Analysis Batch Number: HREXT-04/03/98-114 -1

Test Identification : HREXT-Metals for hr TCLP, by ICP

Sequence : DATP093

Number of Samples : 15

Batch Data-Date/Time : 04/08/98 / 10:01:20

CB#	ANALYTE	CONC FOUND #	CONC LIMIT
CB3-	Lead	ND	0.0150
	Antimony	ND	0.0200
	Selenium	ND	0.0150
	Thallium	0.0028	0.0080
	Vanadium	ND	0.0040
	Zinc	ND	0.0150
CB4-	Silver	0.0005	0.0030
	Arsenic	ND	0.0150
	Barium	0.0001	0.0020
	Beryllium	ND	0.0003
	Cadmium	0.0001	0.0010
	Chromium	0.0001	0.0050
	Copper	0.0002	0.0050
	Nickel	0.0003	0.0150
	Lead	0.0000	0.0150
	Antimony	ND	0.0200
	Selenium	ND	0.0150
	Thallium	0.0004	0.0080
	Vanadium	ND	0.0040
	Zinc	ND	0.0150

----- Result Footnotes -----

- (1e) - Blank is within historical limits - Meets client specific requirements
- (A2) - Parameters associated with this QC were not reported.
- (8a)' - See comments below.
- (11) - The duplicate results cannot be evaluated because both results are <MDL.
- (5a) - Duplicates not evaluated: Results are <10x detection limit

----- Batch Notes -----

Matrix interference for barium was confirmed by re-digestion and re-analysis.

Groups & Samples

21553-76832	21660-77178	21660-77179	21660-77180	21660-77181	21660-77182	21660-77183	21660-77184
21660-77185	21660-77186	21660-77187	21660-77188	21711-77446	21711-77450	21711-77452	21712-77460

On Site Technologies, LTD.

612 E. Murray Drive
Farmington, NM 87401
(505) 325-2432

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Mountain States Analytical, Inc.
1645 West 2200 South

TEL: (800) 973-6724
FAX: (801) 972-6278

Salt Lake City, Utah 84119

Acct #:

17-Mar-98

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests			
				SW1311/6010A	SW3010A	SW3510	
9803043-01B	Aqueous	3/13/98 10:28:00 AM	500HDPEHNO3	1	1	1	

Comments: TCLP CHROMIUM AND LEAD ONLY (100)

Relinquished by:	Date/Time
Relinquished by:	Date/Time
Received by: <i>W. Swager</i>	03/19/98 1110
Received by:	

CHAIN OF CUSTODY RECORD

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

Page 1 of 1[illegible]

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

Page ____ of ____

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

TECHNOLOGIES, LTD.

[illegible]

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

OFF: (505) 325-5667



LAB: (505) 325-1556

January 07, 1999

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

RE: 4-1372; Conoco Farmington Com-1

Order No.: 9812050

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 12/28/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8021B)

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

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

Sincerely,

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

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership

Project: 4-1372; Conoco Farmington Com-1

Lab Order: 9812050

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: 07-Jan-99

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington Com-1
Work Order:	9812050	Client Sample ID:	PZ-1
Lab ID:	9812050-01A	Matrix:	AQUEOUS
Project:	4-1372; Conoco Farmington Com-1	Collection Date:	12/28/98 1:20:00 PM
		COC Record:	5640

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B		Analyst: HR		
Benzene	ND	0.5		µg/L	1	12/30/98
Toluene	ND	0.5		µg/L	1	12/30/98
Ethylbenzene	ND	0.5		µg/L	1	12/30/98
m,p-Xylene	ND	1		µg/L	1	12/30/98
o-Xylene	ND	0.5		µg/L	1	12/30/98

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Jan-99

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington Com-1
Work Order:	9812050	Client Sample ID:	MW-1
Lab ID:	9812050-02A	Matrix:	AQUEOUS
Project:	4-1372; Conoco Farmington Com-1	Collection Date:	12/28/98 1:45:00 PM
		COC Record:	5640

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B		Analyst: HR		
Benzene	ND	0.5		µg/L	1	12/30/98
Toluene	ND	0.5		µg/L	1	12/30/98
Ethylbenzene	0.7	0.5		µg/L	1	12/30/98
m,p-Xylene	ND	1		µg/L	1	12/30/98
o-Xylene	0.6	0.5		µg/L	1	12/30/98

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812050

Project: 4-1372; Conoco Farmington Com-1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_981230	Test Code: SW8021B	Units: µg/L	Analysis Date 12/30/98	Prep Date:						
Client ID:	9812050	Run ID: GC-1_981230A		SeqNo: 9801							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0614	0.5									J
Ethylbenzene	.0721	0.5									J
m,p-Xylene	.1759	1									J
Methyl tert-Butyl Ether	.0843	0.5									J
o-Xylene	.0738	0.5									J
Toluene	.1483	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: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812050

Project: 4-1372; Conoco Farmington Com-1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9812053-04AMS		Batch ID: GC-1_981230		Test Code: SW8021B		Units: µg/L		Analysis Date 12/30/98		Prep Date:	
Client ID:		9812050		Run ID: GC-1_981230A				SeqNo: 9802			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43540	500	40000	610	107.3%	73	115				
Ethylbenzene	44000	500	40000	1000	107.5%	74	117				
m,p-Xylene	90940	1000	80000	6000	106.2%	76	112				
Methyl tert-Butyl Ether	44330	500	40000	100	110.6%	62	122				
o-Xylene	42250	500	40000	100	105.4%	83	112				
Toluene	43500	500	40000	400	107.8%	71	120				

Sample ID: 9812053-04AMSD		Batch ID: GC-1_981230		Test Code: SW8021B		Units: µg/L		Analysis Date 12/30/98		Prep Date:	
Client ID:		9812050		Run ID: GC-1_981230A				SeqNo: 9803			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 9812053-04AMSD		Batch ID: GC-1_981230	Test Code: SW8021B		Units: µg/L		Analysis Date 12/30/98		Prep Date:					
Client ID:		9812050	Run ID:	GC-1_981230A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result												
Benzene		45270			500	40000	610	111.7%	73	115	43540	3.9%	12	
Ethylbenzene		44990			500	40000	1000	110.0%	74	117	44000	2.2%	11	
m,p-Xylene		93000			1000	80000	6000	108.8%	76	112	90940	2.2%	10	
Methyl tert-Butyl Ether		45850			500	40000	100	114.4%	62	122	44330	3.4%	15	
o-Xylene		43350			500	40000	100	108.1%	83	112	42250	2.6%	14	
Toluene		44610			500	40000	400	110.5%	71	120	43500	2.5%	14	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812050
Project: 4-1372; Conoco Farmington Com-1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_981230	Test Code: SW8021B	Units: µg/L	Analysis Date 12/30/98		Prep Date:	
Client ID: 9812050		Run ID: GC-1_981230A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	43.62		0.5	40	0.06	108.9%	84	110
Ethylbenzene	43.74		0.5	40	0.07	109.2%	86	113
m,p-Xylene	85.1		1	80	0.2	106.1%	81	114
Methyl tert-Butyl Ether	45.56		0.5	40	0.08	113.7%	69	129
o-Xylene	43.49		0.5	40	0.07	108.5%	86	112
Toluene	43.24		0.5	40	0.1	107.8%	85	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: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812050
Project: 4-1372; Conoco Farmington Com-1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_981230	Test Code: SW8021B	Units: µg/L	Analysis Date 12/30/98		Prep Date:	
Client ID: 9812050		Run ID: GC-1_981230A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	21.77		0.5	20	0	108.9%	85	115
Ethylbenzene	21.93		0.5	20	0	109.7%	85	115
m,p-Xylene	42.04		1	40	0	105.1%	85	115
Methyl tert-Butyl Ether	22.44		0.5	20	0	112.2%	85	115
o-Xylene	21.72		0.5	20	0	108.6%	85	115
Toluene	21.56		0.5	20	0	107.8%	85	115
1,4-Difluorobenzene	92.6		0	100	0	92.6%	70	130
4-Bromochlorobenzene	101.9		0	100	0	101.9%	70	130
Fluorobenzene	86.3		0	100	0	86.3%	70	130

Sample ID: CCV2 QC0606/07		Batch ID: GC-1_981230	Test Code: SW8021B	Units: µg/L	Analysis Date 12/30/98		Prep Date:	
Client ID: 9812050		Run ID: GC-1_981230A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	21.88		0.5	20	0	109.4%	85	115
Ethylbenzene	22.01		0.5	20	0	110.0%	85	115
m,p-Xylene	42.05		1	40	0	105.1%	85	115
Methyl tert-Butyl Ether	22.45		0.5	20	0	112.2%	85	115
o-Xylene	21.76		0.5	20	0	108.8%	85	115
Toluene	21.76		0.5	20	0	108.8%	85	115
1,4-Difluorobenzene	92.29		0	100	0	92.3%	70	130
4-Bromochlorobenzene	104		0	100	0	104.0%	70	130
Fluorobenzene	86.55		0	100	0	86.5%	70	130

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812050
Project: 4-1372; Conoco Farmington Com-1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_981230		Test Code: SW8021B		Units: µg/L		Analysis Date 12/30/98		Prep Date:	
Client ID:		Run ID: 9812050		PQL		SPK value		SeqNo: 9799			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.67	0.5	40	0	106.7%	85	115				
Ethylbenzene	42.97	0.5	40	0	107.4%	85	115				
m,p-Xylene	83.74	1	80	0	104.7%	85	115				
Methyl tert-Butyl Ether	44.61	0.5	40	0	111.5%	85	115				
o-Xylene	42.62	0.5	40	0	106.5%	85	115				
Toluene	43.9	0.5	40	0	109.8%	85	115				
1,4-Difluorobenzene	92.61	0	100	0	92.6%	70	130				
4-Bromochlorobenzene	105	0	100	0	105.0%	70	130				
Fluorobenzene	85.96	0	100	0	86.0%	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: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812050

Project: 4-1372; Conoco Farmington Com-1

Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ					
9812050-01A	92.7	102	87					
9812050-02A	92	102	85.7					
9812051-01A	91.6	104	86					
9812051-02A	92.8	105	87.3					
9812051-03A	91.9	104	86.1					
9812051-04A	92.8	104	86.6					
9812051-05A	93.4	103	87					
9812053-01A	93.3	104	86.9					
9812053-02A	93	104	87.2					
9812053-03A	92.4	102	86.2					
9812053-04AMS	92	104	85.8					
9812053-04AMSD	92.5	102	86.5					
9812053-05A	93.9	104	88					
9812053-06A	93.4	104	87.3					
9812055-01A	92	102	86.3					
CCV1 QC0606/07	92.6	102	86.3					
CCV2 QC0606/07	92.3	104	86.5					
CCV3 QC0606/07	92.6	105	86					
LCS WATER	92.3	103	85.9					
MB1	93.8	103	87.3					

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

* Surrogate recovery outside acceptance limits

ON SITE

TECHNOLOGIES, LTD.

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

Page

of-

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Company		Company		Company	
Address		Dept.		Mailing Address		Mailing Address	
City, State, Zip				City, State, Zip		City, State, Zip	
Sampling Location:		City, State, Zip		Telephone No.		Telefax No.	
Sampler:		LABORATORY		LABORATORY		LABORATORY	
SAMPLE IDENTIFICATION		DATE		TIME		PRES.	
PZ-1		10/1/82		10:00		10:00	
PZ-2		10/1/82		10:00		10:00	
PZ-3		10/1/82		10:00		10:00	
PZ-4		10/1/82		10:00		10:00	
PZ-5		10/1/82		10:00		10:00	
PZ-6		10/1/82		10:00		10:00	
PZ-7		10/1/82		10:00		10:00	
PZ-8		10/1/82		10:00		10:00	
PZ-9		10/1/82		10:00		10:00	
PZ-10		10/1/82		10:00		10:00	
PZ-11		10/1/82		10:00		10:00	
PZ-12		10/1/82		10:00		10:00	
PZ-13		10/1/82		10:00		10:00	
PZ-14		10/1/82		10:00		10:00	
PZ-15		10/1/82		10:00		10:00	
PZ-16		10/1/82		10:00		10:00	
PZ-17		10/1/82		10:00		10:00	
PZ-18		10/1/82		10:00		10:00	
PZ-19		10/1/82		10:00		10:00	
PZ-20		10/1/82		10:00		10:00	
PZ-21		10/1/82		10:00		10:00	
PZ-22		10/1/82		10:00		10:00	
PZ-23		10/1/82		10:00		10:00	
PZ-24		10/1/82		10:00		10:00	
PZ-25		10/1/82		10:00		10:00	
PZ-26		10/1/82		10:00		10:00	
PZ-27		10/1/82		10:00		10:00	
PZ-28		10/1/82		10:00		10:00	
PZ-29		10/1/82		10:00		10:00	
PZ-30		10/1/82		10:00		10:00	
PZ-31		10/1/82		10:00		10:00	
PZ-32		10/1/82		10:00		10:00	
PZ-33		10/1/82		10:00		10:00	
PZ-34		10/1/82		10:00		10:00	
PZ-35		10/1/82		10:00		10:00	
PZ-36		10/1/82		10:00		10:00	
PZ-37		10/1/82		10:00		10:00	
PZ-38		10/1/82		10:00		10:00	
PZ-39		10/1/82		10:00		10:00	
PZ-40		10/1/82		10:00		10:00	
PZ-41		10/1/82		10:00		10:00	
PZ-42		10/1/82		10:00		10:00	
PZ-43		10/1/82		10:00		10:00	
PZ-44		10/1/82		10:00		10:00	
PZ-45		10/1/82		10:00		10:00	
PZ-46		10/1/82		10:00		10:00	
PZ-47		10/1/82		10:00		10:00	
PZ-48		10/1/82		10:00		10:00	
PZ-49		10/1/82		10:00		10:00	
PZ-50		10/1/82		10:00		10:00	
PZ-51		10/1/82		10:00		10:00	
PZ-52		10/1/82		10:00		10:00	
PZ-53		10/1/82		10:00		10:00	
PZ-54		10/1/82		10:00		10:00	
PZ-55		10/1/82		10:00		10:00	
PZ-56		10/1/82		10:00		10:00	
PZ-57		10/1/82		10:00		10:00	
PZ-58		10/1/82		10:00		10:00	
PZ-59		10/1/82		10:00		10:00	
PZ-60		10/1/82		10:00		10:00	
PZ-61		10/1/82		10:00		10:00	
PZ-62		10/1/82		10:00		10:00	
PZ-63		10/1/82		10:00		10:00	
PZ-64		10/1/82		10:00		10:00	
PZ-65		10/1/82		10:00		10:00	
PZ-66</							

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

Page _____ of _____

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

[illegible]

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



LAB: (505) 325-1556

January 07, 1999

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

RE: 4-1372; Conoco: Farmington Com 1

Order No.: 9812052

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 12/29/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
BTEX (SW8021B)

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

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

Sincerely,

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

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership
Project: 4-1372; Conoco: Farmington Com 1
Lab Order: 9812052

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: 07-Jan-99

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington Com 1
Work Order:	9812052	Client Sample ID:	MW-2
Lab ID:	9812052-01A	Matrix:	AQUEOUS
Project:	4-1372; Conoco: Farmington Com 1	Collection Date:	12/29/98 9:00:00 AM
		COC Record:	5642

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B		Analyst: HR		
Benzene	ND	0.5		µg/L	1	12/31/98
Toluene	ND	0.5		µg/L	1	12/31/98
Ethylbenzene	ND	0.5		µg/L	1	12/31/98
m,p-Xylene	ND	1		µg/L	1	12/31/98
o-Xylene	ND	0.5		µg/L	1	12/31/98

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Jan-99

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington Com 1
Work Order:	9812052	Client Sample ID:	MW-3
Lab ID:	9812052-02A	Matrix:	AQUEOUS
Project:	4-1372; Conoco: Farmington Com 1	Collection Date:	12/29/98 9:15:00 AM
		COC Record:	5642

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B		Analyst: HR		
Benzene	ND	0.5		µg/L	1	12/31/98
Toluene	1.6	0.5		µg/L	1	12/31/98
Ethylbenzene	ND	0.5		µg/L	1	12/31/98
m,p-Xylene	ND	1		µg/L	1	12/31/98
o-Xylene	ND	0.5		µg/L	1	12/31/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812052
Project: 4-1372; Conoco: Farmington Com 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9812056-08AMS		Batch ID: GC-1_981231		Test Code: SW8021B		Units: µg/L		Analysis Date 12/31/98		Prep Date:	
Client ID:		9812052		Run ID:		GC-1_981231A		SeqNo: 9831			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	221.7	2.5	200	12	104.9%	73	115				
Ethylbenzene	247.1	2.5	200	39	104.0%	74	117				
m,p-Xylene	430.4	5	400	21	102.3%	76	112				
Methyl tert-Butyl Ether	237.5	2.5	200	39	99.3%	62	122				
o-Xylene	207.4	2.5	200	0.4	103.5%	83	112				
Toluene	209.7	2.5	200	0.3	104.7%	71	120				

Sample ID: 9812056-08AMSD			Batch ID: GC-1_981231		Test Code: SW8021B		Units: µg/L		Analysis Date 12/31/98		Prep Date:	
Client ID:		9812052		Run ID:		GC-1_981231A		SeqNo: 9832				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	215.7	2.5	200	12	101.9%	73	115	221.7	2.7%	12		
Ethylbenzene	240.4	2.5	200	39	100.7%	74	117	247.1	2.7%	11		
m,p-Xylene	418.7	5	400	21	99.4%	76	112	430.4	2.8%	10		
Methyl tert-Butyl Ether	235.2	2.5	200	39	98.1%	62	122	237.5	1.0%	15		
o-Xylene	202.6	2.5	200	0.4	101.1%	83	112	207.4	2.3%	14		
Toluene	204	2.5	200	0.3	101.9%	71	120	209.7	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: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812052
Project: 4-1372; Conoco: Farmington Com 1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_981231		Test Code: SW8021B		Units: µg/L		Analysis Date 12/31/98		Prep Date:	
Client ID:		9812052	Run ID:	GC-1_981231A				SeqNo:	9829		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.2	0.5	40	0.06	107.9%	84	110				
Ethylbenzene	43.65	0.5	40	0	109.1%	86	113				
m,p-Xylene	85.15	1	80	0.1	106.3%	81	114				
Methyl tert-Butyl Ether	42.98	0.5	40	0.04	107.4%	69	129				
o-Xylene	43.34	0.5	40	0	108.4%	86	112				
Toluene	43.02	0.5	40	0.1	107.3%	85	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: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812052

Project: 4-1372; Conoco: Farmington Com 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_981231	Test Code: SW8021B		Units: µg/L		Analysis Date 12/31/98		Prep Date:			
Client ID: 9812052		Run ID: GC-1_981231A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	21.74		0.5	20	0	108.7%	85	115				
Ethylbenzene	21.96		0.5	20	0	109.8%	85	115				
m,p-Xylene	41.97		1	40	0	104.9%	85	115				
Methyl tert-Butyl Ether	22.06		0.5	20	0	110.3%	85	115				
o-Xylene	21.64		0.5	20	0	108.2%	85	115				
Toluene	21.61		0.5	20	0	108.1%	85	115				
1,4-Difluorobenzene	96		0	100	0	96.0%	70	130				
4-Bromochlorobenzene	98.18		0	100	0	98.2%	70	130				
Fluorobenzene	93.42		0	100	0	93.4%	70	130				

Sample ID: CCV2 QC0606/07	Batch ID: GC-1_981231	Test Code: SW8021B	Units: µg/L	Analysis Date 12/31/98				Prep Date:					
Client ID:	9812052	Run ID:	GC-1_981231A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	21.25	0.5	20	0	106.2%	85	115						
Ethylbenzene	21.15	0.5	20	0	105.8%	85	115						
m,p-Xylene	40.48	1	40	0	101.2%	85	115						
Methyl tert-Butyl Ether	21.66	0.5	20	0	108.3%	85	115						
o-Xylene	20.94	0.5	20	0	104.7%	85	115						
Toluene	20.93	0.5	20	0	104.7%	85	115						
1,4-Difluorobenzene	96.66	0	100	0	96.7%	70	130						
4-Bromochlorobenzene	97.82	0	100	0	97.8%	70	130						
Fluorobenzene	94.35	0	100	0	94.3%	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: 9812052

Project: 4-1372; Conoco: Farmington Com 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_981231		Test Code: SW8021B		Units: µg/L		Analysis Date 12/31/98		Prep Date:				
Client ID: 9812052		Run ID: GC-1_981231A		PQL		SPK value		SeqNo: 9828						
Analyte	Result							%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.44			0.5		40		0		85	115			
Ethylbenzene	42.63			0.5		40		0		85	115			
m,p-Xylene	83.52			1		80		0		85	115			
Methyl tert-Butyl Ether	43.92			0.5		40		0		85	115			
o-Xylene	42.98			0.5		40		0		85	115			
Toluene	42.18			0.5		40		0		85	115			
1,4-Difluorobenzene	96.24			0		100		0		70	130			
4-Bromochlorobenzene	96.9			0		100		0		70	130			
Fluorobenzene	94.25			0		100		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: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812052
Project: 4-1372; Conoco: Farmington Com
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ					
9812052-01A	90.7	96.2	79.9					
9812052-02A	95.8	98.5	88.4					
9812053-04A	95	96.1	93.5					
9812055-02A	92.2	117	90.9					
9812055-03A	98.6	99.8	94.8					
9812056-02A	96.7	97.4	94.4					
9812056-03A	96.5	97.3	94.4					
9812056-04A	95.5	97.1	94.3					
9812056-05A	95.8	97.2	94.3					
9812056-06A	96	97.6	94.2					
9812056-07A	96.5	97.6	94					
9812056-08AMS	94.6	96.8	93.4					
9812056-08AMSD	94.5	97.7	93.3					
9812056-09A	96.2	97.4	93.9					
9812056-10A	96.3	97.6	93.8					
9812060-01A	92.8	96.2	91.4					
9812060-02A	95.9	98.2	94.7					
9812060-03A	96.6	96.9	94					
9812060-04A	96	97.2	94.2					
CCV1 QC0606/07	96	98.2	93.4					
CCV2 QC0606/07	96.7	97.8	94.3					
CCV3 QC0606/07	96.2	96.9	94.2					
LCS WATER	96.3	99.1	93.9					
MB1	96.3	98.1	93.9					

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

* Surrogate recovery outside acceptance limits

ON SITE

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Date: 12/11/18

Page _____ of _____

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