

3R - 95

REPORTS

DATE:

1997



February 1, 1998

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

RE: 1997 Annual Ground Water Report
Conoco Location: San Juan 28-7-126
Unit M, Sec. 01, T27N, R7W, NMPM, San Juan Co., NM

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 covered the prior calendar year of 1997, 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 1997 ACTIVITIES:

This report will only cover the sampling events conducted during 1997. Due to non-detectable levels of contamination New Mexico Oil Conservation Division (NMOCD), has granted an exemption to this location. The exemption allows Conoco to consider water quality monitoring complete, when four (4) consecutive quarters of sampling shows water quality levels below New Mexico Water Quality Control Commission (NMWQCC) standards. Refer to the following correspondence.

New Mexico Oil Conservation Division, January 31, 1997. letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: *Ground Water Contamination Assessment San Juan Unit Wells #219, #47, #19, #126., Conoco Location, San Juan 28-7 #19, Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM.*

SAMPLING:

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

Table 1, summarizes the monitoring well data and water levels measured during each sampling event. Table 2, summarizes the laboratory results for BTEX compounds from all water sampling completed at the referenced site, including assessment data. Table 3, summarizes the laboratory results for RCRA metals and API water quality testing, as required by NMOCD.

Copies of all laboratory reports for the calendar year 1997, 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 1997 ground water monitoring results and trends associated with a former production pit at the San Juan 28-7-126 well location:

1. BTEX contamination, has been below the NMWQCC standards during the last four (4) quarters of 1997.
2. API water analysis indicates high TDS (i.e., 1,438 mg/L) with high sulfate concentrations. This water quality is typical for ground water at similar sites in the Largo Canyon and is not suspected to have been a result of the ongoing oil and gas production at the site.
3. The site should be considered closed and no further remedial actions will need to be taken due to BTEX contamination levels below NMWQCC standards.

RECOMMENDATION:

1. BTEX contamination levels have remained below NMWQCC for the last four (4) quarters. The monitoring well should be plug and abandon in accordance with appropriate regulations.
2. No further remedial action will need to be taken.
3. Upon completion of ground water monitoring action, a Final Pit Closure Report will have to be submitted to NMOCDC for approval.

LIMITATIONS AND CLOSURE:

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

The scope of On Site Technologies' services consisted of project management, periodic water sampling and measurement of water levels, laboratory testing for ground water quality, and preparation of the annual report. All work has been performed in accordance with generally accepted professional practices in 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
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 (Not Applicable)
Boring Logs and Monitoring Well Diagrams (Not Available)
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.

Shirley R. Ebert SHEAR & STRENGTH
(Name/Title)

2/19/98
(Date)

MKL/mkl: 41360-97.doc

On Site Technologies
Table 1
Ground Water Level Summary
San Juan 28-7-126
Unit M, Sec. 01, T27N, R7W

Well Number	Elevation at Ground Surface (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	6170.00	82.79			06/10/97	75.42	6094.58
					10/09/97	75.61	6094.39
					12/22/97	75.56	6094.44
BGS - approximate measurements taken as Below Ground Surface BTOC - Below Top of Casing NM - Not Measured							

On Site Technologies

Table 2

BTEX Analytical Summary

San Juan 28-7-126

Unit M, Sec. 01, T27N, R7W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Benzene	Toluene	Ethylbenzene	Total Xylene	Total BTEX
08/11/95	G01374	MW#1	IML	238.0	3,190.0	164.0	1941.0	5533.0
03/12/96	039600353	MW#1	IML	BDL	19.0	13.0	201.0	233.0
07/17/96	0396G01349	MW#1	IML	BDL	10.7	7.4	24.5	42.6
03/26/97	14048	MW#1	On Site Lab.	0.3	1.0	0.8	2.2	4.3
06/10/97	14896	MW#1	On Site Lab.	BDL	1.0	0.7	2.2	3.9
10/9/97	16561	MW#1	On Site Lab.	BDL	1.0	BDL	0.7	1.8
12/22/97	17209	MW#1	On Site Lab.	BDL	2.7	0.3	3.1	6.1
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

BDL, Below Detection Levels

On Site Technologies
 Table 3
 Other Constituents Analytical Summary
 San Juan 28-7-126
 Unit M, Sec. 01, T27N, R7W

API Results

CATIONS				ANIONS			
PARAMETER	RESULTS	UNIT OF MEASURE	WQCC Standards	PARAMETER	RESULTS	UNIT OF MEASURE	WQCC Standards
Sodium	Na	112.0	mg/L	Chloride	Cl	8.0	mg/L
Calcium	Ca	270.0	mg/L	Sulfate	SO ₄	771	mg/L
Magnesium	Mg	44.0	mg/L	Carbonate	CO ₃	<1	mg/L
Potassium	K	3.69	mg/L	Bicarbonate	HCO ₃	230.0	mg/L
				Hydroxide	HO	<1	mg/L
				Sulfide	S ₂	NA	mg/L
				Iron	Fe	<0.05	mg/L
				Total Dissolved Solids		1438.0	mg/L
				pH		7.03	between 6 and 9
				Resistivity		5.1948	ohm-m
				Specific Gravity		1.0017	
				Total hardness of CaCO ₃		855.0	mg/L

Sample Date: September 15.1997

Cation-Anion Balance

Difference Cation-Anion me/L 2.03

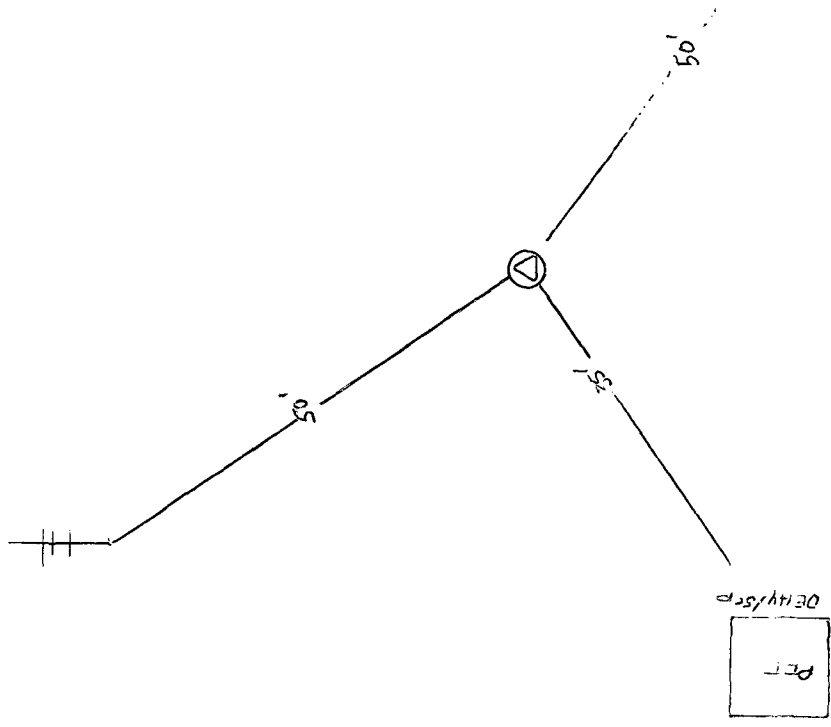
Total Cation-Anion me/L 42.09

Difference Cation-Anion 4.8%

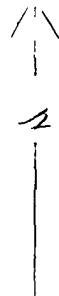
RCRA Metals

Test Method SW-846

PARAMETER	RESULTS	UNITS	WQCC	UNITS
Mercury by CVAA	<0.0005	mg/L	0.002	mg/L
Arsenic by ICP	<0.15	mg/L	0.1	mg/L
Barium by ICP	0.29	mg/L	1.0	mg/L
Cadmium by ICP	<0.020	mg/L	0.01	mg/L
Chromium by ICP	<0.050	mg/L	0.05	mg/L
Lead by ICP	<0.20	mg/L	0.05	mg/L
Selenium by ICP	<0.35	mg/L	0.05	mg/L
Silver by ICP	<0.030	mg/L	0.05	mg/L



San Juan 28-7-126
 405 in 52000



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *30-Dec-97*
COC No.: *6781*
Sample No.: *17209*
Job No.: *2-1360*

Project Name: *Conoco, Inc. - San Juan 28-7-126*

Project Location: *28-7-126*

Sampled by: *LT* Date: *22-Dec-97* Time: *7:57*

Analyzed by: *HR* Date: *26-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>	2.7	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.3	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	2.4	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.7	ug/L	0.2	ug/L
<i>TOTAL</i>	6.1	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *Dug*
Date: *12/30/97*

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QUALITY ASSURANCE REPORT

for EPA Method 8020

Internal QC No.: 0559-STD
Surrogate QC No.: 0567-STD
Reference Standard QC No.: 0529/30-QC

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
<i>Average Amount of All Analytes In Blank</i>	< 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	20.8	4	15%
<i>Toluene</i>	ppb	20.0	21.7	8	15%
<i>Ethylbenzene</i>	ppb	20.0	21.2	6	15%
<i>m,p-Xylene</i>	ppb	40.0	40.9	2	15%
<i>o-Xylene</i>	ppb	20.0	20.9	4	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>	91	92	(39-150)	1	20%
<i>Toluene</i>	98	98	(46-148)	0	20%
<i>Ethylbenzene</i>	90	94	(32-160)	2	20%
<i>m,p-Xylene</i>	92	95	(35-145)	3	20%
<i>o-Xylene</i>	96	96	(35-145)	0	20%

	S1 Percent <i>Laboratory Identification</i> <i>Recovered</i>	S2 Percent <i>Laboratory Identification</i> <i>Recovered</i>		S1 Percent <i>Laboratory Identification</i> <i>Recovered</i>	S2 Percent <i>Laboratory Identification</i> <i>Recovered</i>
<i>Limit Percent Recovered</i>	(70-130)		<i>Limit Percent Recovered</i>	(70-130)	
17209-6781	93				
				JM	(m)
				12/31/97	12/30/97

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[illegible]

[illegible]

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: *22-Oct-97*
COC No.: *6518*
Sample No.: *16563*
Job No.: *2-1360*

Project Name: *Conoco, Inc. - 28-7-126*

Project Location: *28-7-126-#1*

Sampled by: *LT* Date: *9-Oct-97* Time: *12:00*

Analyzed by: *DC* Date: *20-Oct-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>	1.0	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.5	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.2	ug/L	0.2	ug/L
<i>TOTAL</i>	1.8	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: *10/22/97*

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Date: 11-1-11

Page

10-9-97

1 of 1

[illegible]

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



LAB: (505) 325-1556

API WATER ANALYSIS

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

Date: **10-Oct-97**
 COC No.: **6492**
 Sample ID: **16279**
 Job No.: **4-1360**

Project Name: **Conoco Inc. - 28-7-126**
 Project Location: **4-1360**
 Sampled by: **LT**
 Analyzed by: **HR**

Date: **15-Sep-97** Time: **14:10**
 Date: **25-Sep-97**

API RP-45 Laboratory Analysis

Parameter	Result	Unit of Measure		Result	Unit of Measure	
Cations						
Sodium Na	112	mg/L		4.87	me/L	
Calcium Ca	270	mg/L		13.47	me/L	
Magnesium Mg	44	mg/L		3.62	me/L	
Potassium K	3.69	mg/L		0.09	me/L	
Anions						
Chloride Cl	8	mg/L		0.21	me/L	
Sulfate SO4	771	mg/L		16.05	me/L	
Carbonate CO3	< 1	mg/L		< 0.01	me/L	
Bicarbonate HCO3	230	mg/L		3.77	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			
Calculated, Sum of Cation/Anion	1438	mg/L	2.03 Difference Cation-Anion, me/L			
			42.09 Total Cation-Anion, me/L			
			4.8 % Difference Cation-Anion			
pH	7.03		Comments			
Resistivity	5.1948	ohm-m	NA: Not Analyzed			
Specific Gravity	1.0017					
Total Hardness as CaCO3	855	mg/L				

Approved by: *[Signature]*
 Date: *10/15/97*

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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: 25-Sep-97

Quality Control Sample

Parameter	Laboratory Identification	True Value	Analyzed Value	Unit of Measure	% Diff	Limit % Diff
Sodium, Na	0541-QC	2.32	2.22	mg/L	-4	10
Calcium, Ca	0465-QC	2.18	2.03	mg/L	-7	10
Magnesium, Mg	0465-QC	1.14	1.22	mg/L	7	10
Potassium, K	0541-QC	1.33	1.30	mg/L	-2	10
Chloride, Cl	0538-QC	66	70	mg/L	6	10
Sulfate, SO ₄	0538-QC	78	74	mg/L	-4	10
Alkalinity	0538-QC	159	168	mg/L	6	10
Iron, Fe	0495-QC	1.00	0.98	mg/L	-2	10
pH	0538-QC	9.13	9.27		2	10
Conductivity	0541-QC	740	751	uS/cm	1	15

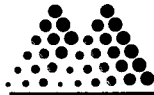
Matrix Spike

Parameter	Laboratory Identification	Analyzed Value	Matrix Spike	Spike Value	Unit of Measure	Spike Recovery
Sodium, Na	16203-6477	0.84	0.50	1.38	mg/L	103%
Calcium, Ca	16208-6478	1.28	0.50	1.75	mg/L	98%
Magnesium, Mg	16208-6478	1.95	0.50	2.45	mg/L	100%
Potassium, K	16203-6477	0.88	0.50	1.36	mg/L	99%
Iron, Fe	16308-6500	0.04	0.50	0.50	mg/L	93%

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

Dec 10/15/97 21/2
10/15/97 10/17/97



Mountain States Analytical, Inc.

October 9, 1997

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

Reference:

Project: Conoco 28-7-126
MSAI Group: 17962

Dear Mr. Cox:

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

16279-6492

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

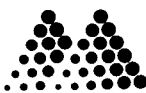
If the report is acceptable, please approve the enclosed invoice and forward it for payment.

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



Mountain States Analytical, Inc.

The Quality Solution

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

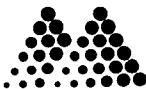
Attn: Mr. David Cox
Project: Conoco 28-7-126

Sample ID: 16279-6492
Matrix: Waste Water

RECEIVED OCT 16 1997

MSAI Sample: 68596
MSAI Group: 17962
Date Reported: 10/09/97
Discard Date: 11/08/97
Date Submitted: 09/23/97
Date Sampled: 09/15/97
Collected by: DC
Purchase Order:
Project No.:

Test Analysis	Results as Received	Units	Limit of Quantitation
0259B Mercury by CVAA, w/ww, 7470 Method: SW-846 7470	ND	mg/l	0.0005
0392I Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Complete		
0392M Mercury Prep CVAA, w/ww, 7470 Method: SW-846 7470	W 0		
7245 Arsenic by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.15
7246 Barium by ICP, w/ww, 6010A Method: SW-846 6010A	0.29	mg/l	0.02
7249 Cadmium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.020
7251 Chromium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.050
7255 Lead by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.20
7264 Selenium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.35
7266 Silver by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.030



Mountain States Analytical, Inc.

On Site Technologies, Ltd.

The Quality Solution

Page 2

Sample ID: 16279-6492

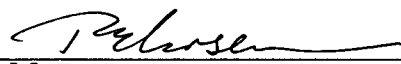
MSAI Sample: 68596

MSAI Group: 17962

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

ON SITE

TECHNOLOGIES, LTD.

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

Date: 9/22/97

Page

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Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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2670

ON SITE

Page _____ of _____

Date:

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Distribution:	White -- On Site	Yellow -- LAB	Pink -- Sampler	Goldenrod -- Client
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CHAIN OF CUSTODY RECORD

230

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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TECHNOLOGIES, LTD.

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

ON SITE
TECHNOLOGIES, LTD.

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.: *6418*
Sample No.: *14896*
Job No.: *4-1360*

Project Name: *Conoco - San Juan 28-7-126*
Project Location: *San Juan 28-7-126*
Sampled by: *LT* Date: *10-Jun-97* Time: *14:35*
Analyzed by: *DC* Date: *12-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>	1.0	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.7	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	1.7	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.5	ug/L	0.2	ug/L
<i>TOTAL</i>	3.8	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

TECHNOLOGIES, LTD.

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

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

Purchase Order No.:

Job No.

**SEND
INVOICE
TO**

Name Leavy Truitt

Company Comoco

Address

Dept.

City, State, Zip

Telephone No.	Telefax No.
---------------	-------------

REPORT
RESULTS TO

Name	Title
Lawrence	

Company	Conoco
---------	--------

Mailing Address

City, State, Zip

Telephone No.	Telefax No.
---------------	-------------

Sampling Location:

ANALYSIS REQUESTED

San Juan 28-7-126

Sampler:

Larry Traylor

SAMPLE IDENTIFICATION	SAMPLE		MATRIX	PRES.
	DATE	TIME		

	DATE	TIME	
in June 88-7-26	11	5:15	HC-103
Sun June 88-7-26	2	4:55	HC-104

[illegible][illegible]

Relinquished by: _____

Date/Time 6/10/97 16:18

Relinquished by:

Date/Time

Received by:		Date/Time	11/17/12
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Date/Time

Relinquished by:

Date/Time

Received by:

Date/Time

Method of Shipment:

24-48 Hours

10 Working Days

Special Instructions:

Authorized by: —

(Client Signature Must Accompany Request)

Date _____

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



LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *1-Apr-97*
COC No.: *5101*
Sample No.: *14048*
Job No.: *4-1360*

Project Name: *Conoco - 28-7 #126*
Project Location: *MW-1*
Sampled by: *HR*
Analyzed by: *DC*
Sample Matrix: *Liquid*

Date: *26-Mar-97* Time: *12:25*
Date: *31-Mar-97*

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i>0.3</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>1.0</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>0.8</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>1.7</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>0.5</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>4.3</i>	<i>ug/L</i>		

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

Approved By: *[Signature]*

Date: *4/1/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDED AND INTEGRATED WITH THE ENVIRONMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 31-Mar-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-QC

Method Blank

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

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	18.0	10	15%
Toluene	ppb	20.0	19.1	5	15%
Ethylbenzene	ppb	20.0	19.5	3	15%
m,p-Xylene	ppb	40.0	37.6	6	15%
o-Xylene	ppb	20.0	19.3	3	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	87	80	(39-150)	3	20%
Toluene	90	81	(46-148)	2	20%
Ethylbenzene	96	89	(32-160)	5	20%
m,p-Xylene	93	86	(35-145)	4	20%
o-Xylene	95	88	(35-145)	4	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
14048-5101	95				

S1: Fluorobenzene

QC
4/1/97

CHAIN OF CUSTODY RECORD

ON SITE

TECHNOLOGIES, LTD.

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

Page ____ of ____

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