District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

red Bill Olson

FEB 2002

RECEIVED OIL CON. DIV (Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

	`	611000	
Operator: Conoco Inc		phone:(505)	327-9557
Address: 3315 Bloomfield Highway, Farmingt	on, NM 87401		
Well Name: <u>Salmon 1</u>			
Location: Unit or Qtr/Qtr Sec: Unit P SE 1/4 S	Sec <u>30</u> T <u>29N</u> R <u>11W</u> Cou	ınty <u>San Juar</u>	n, NM
Pit Type: Separator Dehydrator Land Type: BLM, State, Fo	Other <u>Line Drip</u> ee Other <u>Private</u>		
Pit Location: Pit dimensions: length 25', wid (Attach diagram)  Reference: wellhead X, other	<u> </u>		
Footage from reference: Approx			
Direction from reference: Appr	oximately 15 Degrees East of	North	
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	Yes	(20 points) (10 points) ( 0 points) <u>20</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)			(20 points) ( 0 points) <u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	t Yes	(20 points) (10 points) ( 0 points) <b>0</b>
	RANKING SCORE (TOTAL	POINTS):	20

Date Remediation Started: 19	Date completed <u>1/18/02</u>							
101110011111111111111111111111111111111								
(Check all appropriate sections.) Land	dfarmed Insitu Bioremediation							
Othe	er Disposed at Envirotech OCD landfarm							
Remediation Location: Ons (i.e. landfarmed onsite, name and location of offsite facility)	ite Offsite: X  Crouch Mesa Landfarm #2 Unit 5							
an unlined drip pit. During J	edial Action: Conoco treated and excavated soils to ground water in the immediate area of fune 18, 19, and 20, 1997, On Site excavated approximately 496 cubic yards of ite, and disposed of it properly. The excavation was backfilled with clean material. eled to monitor ground water quality. Refer to Conoco Annual Ground Water Report 1998, bund water sample results							
Ground Water Encountered:	Ground Water Encountered: No Yes: X Depth: Approximately four feet.							
Final Pit: Closure Sampling:	Sample location: Refer to Salmon #1 Excavation Summary (On Site 7/25/97).							
(if multiple samples, attach sample results	Sample depth							
and diagram of sample locations and depths)	Sample Date Sample time							
	Sample Results							
	Benzene(ppm)							
Total BTEX(ppm)								
Field headspace(ppm)								
	TPH							
Ground Water Sample:	Yes X No (If yes, attach sample results)							
,	rmation above is true and complete to the best of my knowledge and belief.							
Date: 2/21/02								
Date: 2/21/02 Signature Pan Jer	Printed Name: Gary Ledbetter and Title: Field SHEAR Specialist							



February 18, 2002

FAX: 505-327-1496

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

RE:

2001 Annual Ground Water Report

Conoco Location: Salmon #1

Unit P. Sec. 30, T29N, R11W, NMPM, San Juan Co., NM

Project No.: 4-1377

## Dear Mr. Ledbetter:

The following report summarizes the ground water remediation and monitoring activities conducted by On Site Technologies Limited Partnership and/or others on behalf of Conoco, Inc. at the referenced oil and gas location. This report covered the prior calendar year of 2001, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico* (hereafter referred to as the monitoring plan), submitted to the New Mexico Oil Conservation Division on October 15, 1997.

## Summary of 2001 Activities:

Ground water sampling events were conducted in March, June, September and December of 2001 and January 2002. Water levels were taken on all monitoring wells. DG#2 was the only monitoring well sampled during 2001. During the January 2002, sampling event DG 1, 2, and 3 were sampled for closure.

Laboratory result shows that the levels of BTEX contamination have dropped in DG #2 below the New Mexico Water Quality Control Commission (NMWQCC) standards. DG#1 and DG#3 remain Below NMWQCC standards.

#### Sampling:

In accordance with the monitoring plan, water levels were measured in 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 was followed. Laboratory analyses ordered followed the Conoco monitoring plan.

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

Copies of all laboratory reports for the calendar year 2001, and the sampling for closure (1/02) along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

Conoco, Inc.: Salmon #1 On Site Technologies, Ltd. 2001 Annual Ground Water Report

## Summary and Conclusions:

The following conclusions are based on the 2001, ground water monitoring results and trends associated with a former drip pit at the Salmon #1 well location:

1. BTEX contamination has been below NMWQCC water quality standard for the last six (6) sampling events.

#### Recommendations:

- Ground water remediation by natural attenuation appears to be complete. A Final Pit Closure Report to be submitted to NMOCD for approval is attached to this report.
- 2. After approval by NMOCD, plug and abandon monitoring wells in accordance with current regulation.

#### Limitations and Closure:

This annual ground water report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 2001. This report follows the 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, petroleum and environmental engineering, and hydrogeology.

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

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

Respectfully submitted;

John Hagstrom.

Environmental technician

Reviewed by:

Lawrence "Larry" Trujillo, CHMM

**Environmental Specialist** 

#### On Site Technologies, Limited Partnership

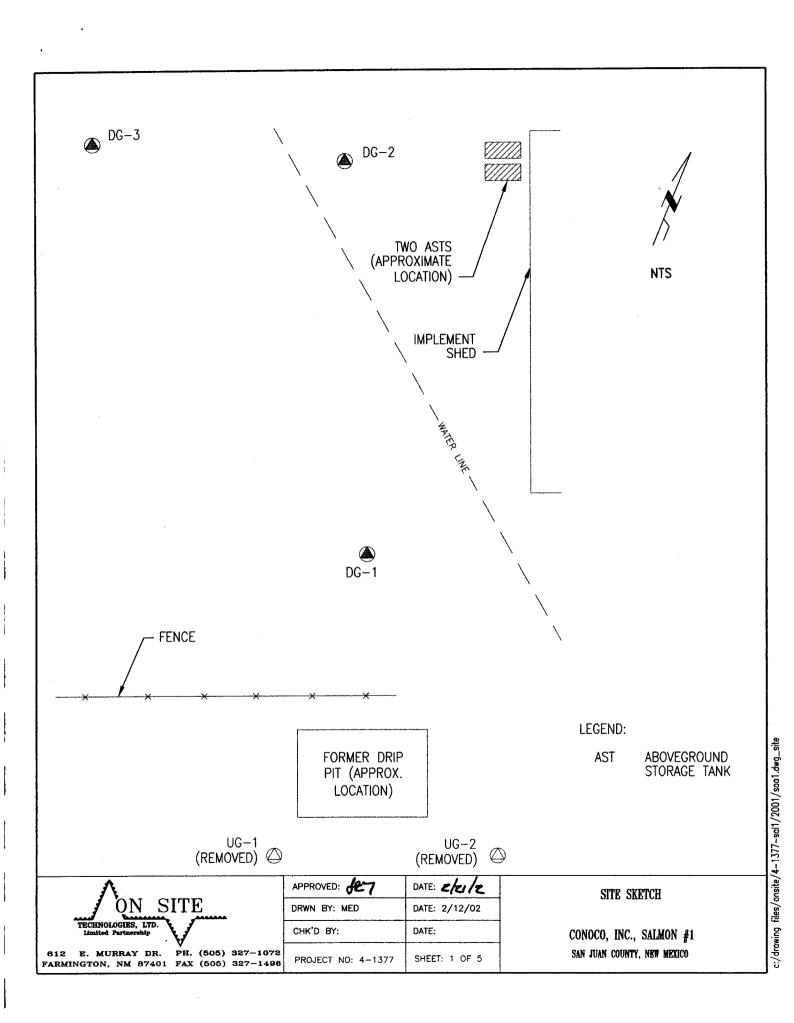
Attachments:

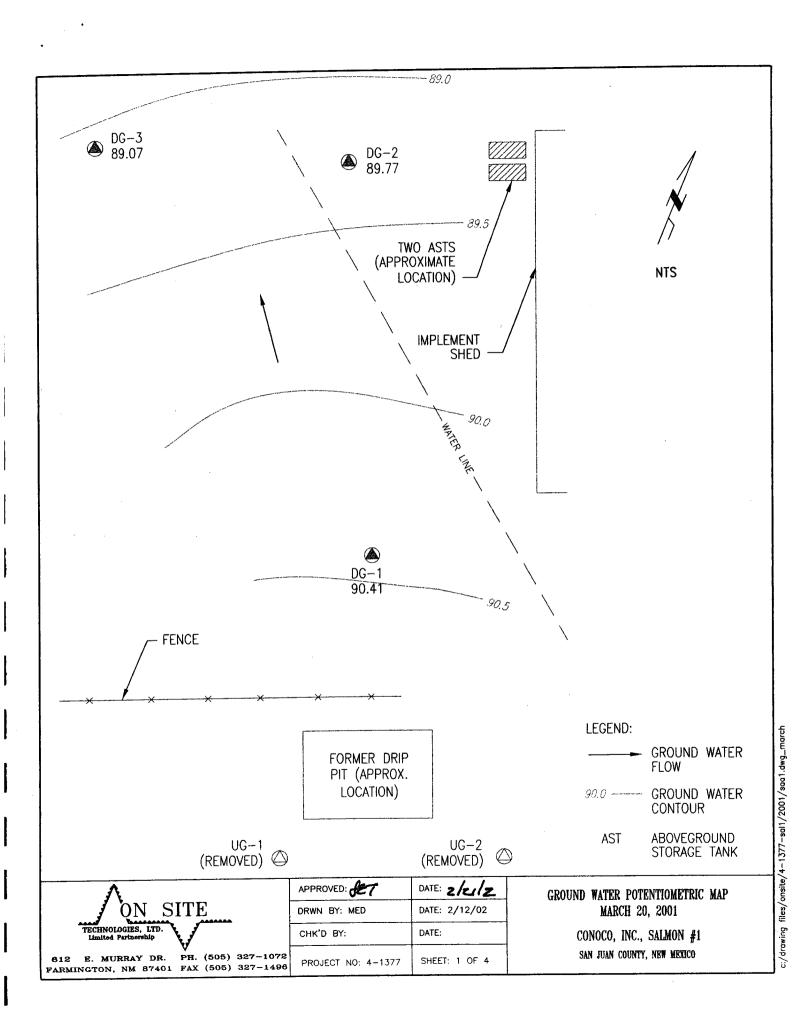
Table 1: Monitoring Well Details and Ground Water Levels Summary

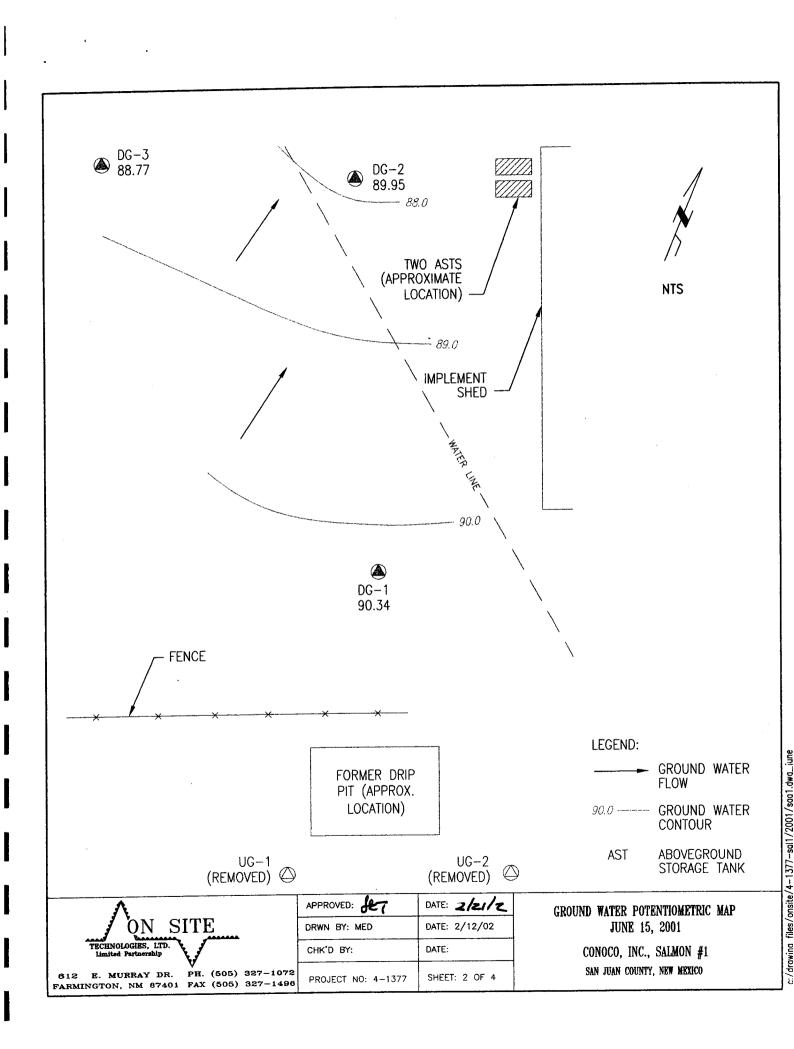
Table 2: Ground Water BTEX Analytical Summary

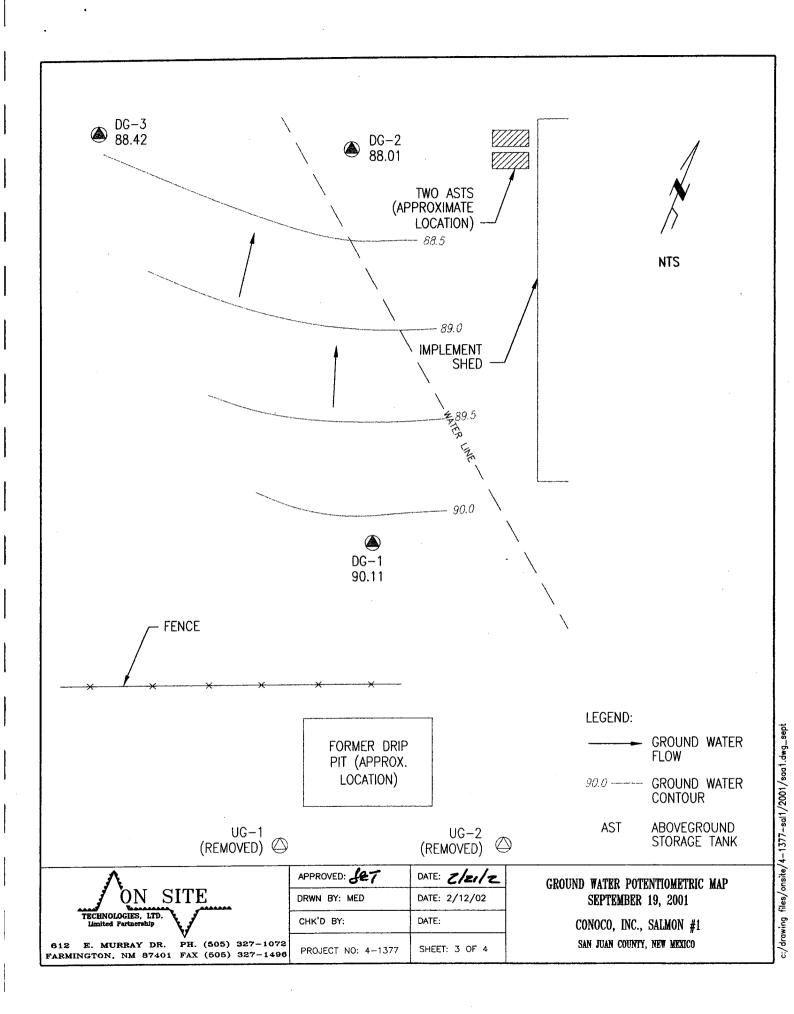
Figure 1: Site Sketch

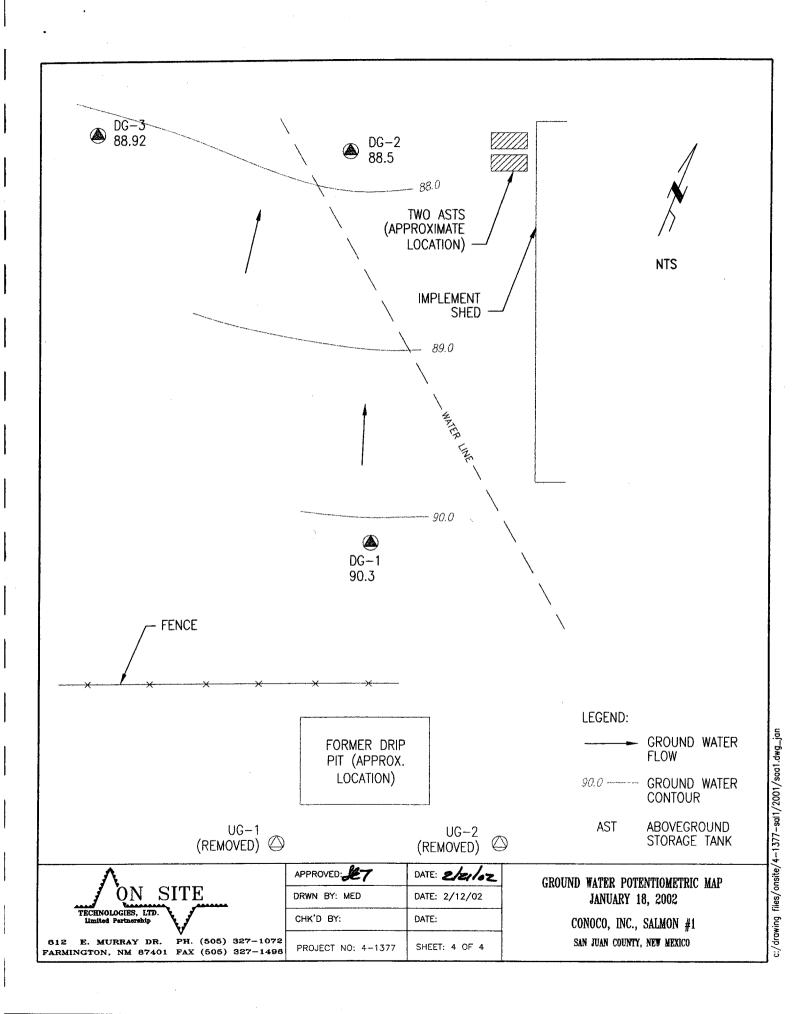
Figure 2, 3, 4, 5 Ground Water Potentiometric Maps Laboratory Results, QA/QC, Chain of Custody













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

## ANALYTICAL REPORT

Date: 17-Dec-01

Client:

Lab ID:

Project:

On Site Technologies Limited

4-1377; Conoco Salmon 1

Work Order:

0112016

0112016-01A

Matrix: AQUEOUS

OT IC

Client Sample ID: DG-2

Collection Date: 12/13/2001 1:45:00 PM

Client Sample Info: Conoco Salmon 1

COC Record: 11696

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

Qualifiers:

PQL - Practical Quantitation Limit

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



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

## ANALYTICAL REPORT

Date: 04-Feb-02

Client:

On Site Technologies Limited

Work Order:

0201021

Lab ID:

0201021-01A

Matrix: AQUEOUS

Project:

4-1377; Conoco Salmon 1

Client Sample Info: Salmon 1

Client Sample ID: DG 1

Collection Date: 01/18/2002 11:40:00 AM

COC Record: 11741

Parameter	Result	PQL Q	ual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SW8021B				Analyst: DDM
Benzene	ND	0.5	μg/L	1	01/29/2002
Toluene	ND	0.5	μg/L	1	01/29/2002
Ethylbenzene	ND	0.5	μg/L	1	01/29/2002
m,p-Xylene	ND	1	μg/L	1	01/29/2002
o-Xylene	ND	0.5	μg/L	1	01/29/2002

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

L of 3



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

# ANALYTICAL REPORT

Date: 04-Feb-02

Client:

On Site Technologies Limited

4-1377; Conoco Salmon 1

Work Order:

0201021

Lab ID: Project: 0201021-02A

Matrix: AQUEOUS

Client Sample Info: Salmon 1 Client Sample ID: DG 3

Collection Date: 01/18/2002 11:55:00 AM

COC Record: 11741

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SW8021B			Analyst: <b>DDM</b>	
Benzene	ND	0.5	μg/L	1	01/29/2002
Toluene	ND	0.5	μg/L	1	01/29/2002
Ethylbenzene	ND	0.5	μg/L	1	01/29/2002
m,p-Xylene	ND	1	μg/L	1	01/29/2002
o-Xylene	ND	0.5	μg/L	1	01/29/2002

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

2 of 3



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

ANALYTICAL REPORT

Date: 04-Feb-02

Client:

On Site Technologies Limited

Work Order:

0201021

Lab ID:

0201021-03A

Matrix: AQUEOUS

Project:

4-1377; Conoco Salmon 1

Client Sample Info: Salmon 1

Client Sample ID: DG 2

Collection Date: 01/18/2002 12:15:00 PM

COC Record: 11741

Parameter	Result	PQL Qı	ual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SW8021B			Analyst: <b>DDM</b>	
Benzene	ND	0.5	µg/L	1	01/29/2002
Toluene	ND	0.5	μg/L	1	01/29/2002
Ethylbenzene	ND	0.5	μg/L	1	01/29/2002
m,p-Xylene	ND	1	μg/L	1	01/29/2002
o-Xylene	ND	0.5	μg/L	1	01/29/2002

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

B - Analyte detected in the associated Method Blank he associated Method Blank Surr: - Surrogate
P.O. BOX 2606 • FARMINGTON, NM 87499