3R - <u>84</u>

REPORTS

DATE: 11/26/1997



November 26, 1997

Conoco, Inc., Midland Division Exploration and Production, North America 10 Desta Drive, Suite 100W Midland, Texas 79705-4500

Attn: Mr. Neal Goates, Senior Environmental Specialist

RE: Remediation Summary Farmington B Com #1E Unit O, Sec. 30, T29W, R11W, NMPM San Juan County, New Mexico Project No: 4-1374

The following correspondence has been prepared by *On Site Technologies Limited Partnership* for Conoco. This correspondence is to summarize the excavation efforts done at Farmington B Com #1E during September 24 - 26, 1997.

PROJECT BRIEF:

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On March 14, 1997, *On Site Technologies* conducted a site assessment using a small John Deere D490 Trackhoe was used to advance four test holes. The test holes ranged in depth from 14 to 19 feet in depth. The soils were noncohesive consisting of well rounded gravel and cobbles with sand and Classified as Type C Soil per OSHA Trenching and Excavation Standards. Due to these soil types and existing surface improvements, deeper excavation was deemed unsafe (refer to On Site Technologies report dated April 16, 1997).

Two to three grab samples were collected from each test hole, from the Trackhoe bucket. Each sample was field tested for volatile hydrocarbons per NMOCD Field Heated Headspace Method. Selected split samples were collected in four ounce glass jars with Teflon® closures, labeled, and placed on ice for delivery to the laboratory. Lab samples were tested for Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M and volatile hydrocarbons (BTEX) per EPA Method 8020 to verify the Headspace results

TPH and BTEX soil contamination was confirmed in two areas, north of the production storage tank and west of the separator/dehydrator pit. In both areas, soil contamination was found from approximately three to eighteen plus feet below the surface. The contamination appeared to be limited to former unlined pit areas, traveling straight down with little lateral migration, due to the porous and permeable subsurface soils.

It was recommended to excavate to the extent practical the impacted soils above NMOCD's standards for hydrocarbons, screen the larger rock and transport offsite the contaminated soils for proper disposal/remediation.

Conoco: Farmington B Com # On Site Technologies Limited partnership

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SUMMARY OF REMEDIATION EFFORTS:

On September 24 - 26, 1997, **On Site Technologies** and Consolidated Contractors excavated the contaminated soils at Farmington B Com #1E. A total of 906 cubic yards of soil was excavated. Using a screening machine a total of 328 cubic yards of contaminated soil was transported off site. Screened material, totaling 578 cubic yards, was placed back into excavated sites. Mr. Denny Foust, NMOCD Deputy Oil & Gas Inspector, witnessed some of the project progress.

Excavation Site #1

Excavation site number one was the area west of the separator and pit. This area was suspected to be a former unlined pit, and a large amount of trash and metal debris was removed during the excavation. Due to limited space and safety concerns, the excavation was limited to area of 16 feet by 27 feet and to a depth of 21 feet. A total of 336 cubic yards of contaminated soil was removed. The soils removed from excavation were screened to remove the 3-inch plus gravels and cobbles.

With Mr. Foust's concurrence, the large gravels and cobbles were returned to the excavation. Additionally, at Mr. Foust's request and to enhance insitu degradation of residual hydrocarbons on the backfilled gravels and remaining contaminated soils, approximately 10 gallons of liquid fertilizer were applied by sprayer during backfilling. Clean backfill material was imported to balance the site and crown the excavation area.

To monitor the excavation progress, a total of three soil samples were taken and field tested for volatile hydrocarbons per the NMOCD Field Heated Headspace Method. Selected samples were split, placed in clean jars with Teflon® closure and put on ice for delivery to the laboratory.

Excavation Site #2

Excavation site number two was north of the production tank. The area of excavation was approximately 25 feet by 36 feet and extended to a depth of approximately 19 feet. A total of 570 cubic yards of contaminated soil was removed. Ground water was encountered between 19 and 20 feet. The soils were screened to remove the 3-inch plus gravels and cobbles.

With Mr. Foust's concurrence, the large gravels and cobbles were returned to the excavation. Additionally, at Mr. Foust's request and to enhance insitu degradation of residual hydrocarbons on the backfilled gravels and remaining contaminated soils, approximately 10 gallons of liquid fertilizer were applied by sprayer during backfilling. Clean backfill material was imported to balance the site and crown the excavation area.

To monitor the progress of the excavation, a total of five samples were taken from the excavation bottom and field tested for volatile hydrocarbons per the NMOCD Field Heated Headspace Method. Selected samples were split and placed in clean jars with Teflon® closure and put on ice for delivery to the laboratory. No ground water samples were taken due to the unstable condition of the excavation sidewalls.

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Refer to the attached site sketch for the approximate extent of the excavations and soil sample locations.

Monitor Well Installations:

Due to the cobble and gravel soil conditions and to aid with the installation of monitoring wells, 20 foot sections of 8-inch Sch 40 PVC was place in both excavations during backfilling. This would act as a conductor for subsequent drilling and well construction. A third conductor was installed near the entrance gate for an additional up-gradient monitoring well.

SUMMARY OF SAMPLING EFFORTS:

All soil samples delivered to laboratory were analyzed for Total Petroleum Hydrocarbon (TPH) per EPA Method 8015M. Samples with a field headspace reading over 100 were also analyzed for BTEX per EPA Method 8020. Results of field screening and laboratory analysis for the selected samples are shown on following table.

	Sample Number	Date	Time	PID Units	TPH (ppm)	Benzene (ppm)	Total BTEX (ppm)
Excavation #1	#2	9/24/97	1346	566.0	3333.0	0.64	96.2
	#3		1405	435.0	2808.0	ND	69.6
Excavation #2	#1	9/25/97	0843	007.0	27.0		
	#2		1158	404.0	1501.0	ND	74.0
	#3		1310	20.9	92.4		
	#4		1336	273.0	1492	ND	56.1

ND, Non Detect

ppm, Parts Per Million

Copies of the laboratory reports, quality control/quality assurance (QC/QA) and chain-ofcustody are attached.

RECOMMENDATION:

Based on the former assessment, visual observation and laboratory results associated with the excavation and remediation, the following is recommended:

- 1. Install, development and sampling of three monitoring wells. Ground water sampling to follow Conoco's proposed Comprehensive Ground Water Remediation and Long-Term Monitoring Plan, including analysis for BTEX per EPA Method 8020, major cations/anions, (API Method RP45), and total dissolved phase solids (TDS).
- 2. If no ground water impact is detected the monitoring wells will plugged and abandoned following NMOCD procedures. If ground water impact is detected, ground water monitoring should be performed on a periodic basis until four consecutive sample events measure hydrocarbon contamination below current WQCC standards.
- 3. No further excavation or soil treatment is needed at the present time, as the vast majority of soil contamination is believed to have been removed. If ground water monitoring indicates further deterioration of the water quality, additional measures may need to be taken to eliminate the source.

Conoco: Farmington B Corn # On Site Technologies Limited partnership



LIMITATION AND CLOSURE:

This summary documents visual observation of the site, subsurface conditions encountered during this reclamation project, and analysis of soil samples collected during the excavation. This summary does not reflect subsurface variations which may exist between sampling points or subsurface changes which may occur due to seasonal variation.

The scope of our services consisted of the performance of site reclamation by soil excavation, project management and sampling during soil excavation efforts, field and lab testing of soil for hydrocarbon contamination, and preparation of a summary. 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 Limited Partnership 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 report, please contact either Larry Trujillo or Myke Lane at On Site Technologies, (505) 325-5667. Thank you for allowing On Site to assist you with this matter.

Respectfully_Submitted by,

Lawrence Trujillo Sr. Environmental Technician Reviewed by,

Michael K. Lane Inician Sr. Engineer On Site Technologies Limited Partnership

cc: Shirley Ebert, Conoco Farmington Office

Attachments:

Lab Results, QA/QC & Chain of Custody's Bills of Lading Site Sketch Safety Forms



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Tru	ıjillo	Date:	6-Oct-97
Company:	On Site	Technologies, Ltd. c/o Conoco, Inc.	COC No.:	6480
Address:	612 E. N	Aurray Drive	Sample No.:	16321
City, State:	Farming	ton, NM 87401	Job No.:	4-1374
Project Nam	ne:	Conoco, Inc Farmington B-Com-1E		
Project Loca	ation:	4-1374-EXC-1-2		

Sampled by:	LT	Date:	24-Sep-97 Time:	13:50
Analyzed by:	DC/HR	GRO Date:	25-Sep-97	
Sample Matrix:	Soil	DRO Date:	2-Oct-97	

Laboratory Analysis

	Results as	Unit of	Limit of	Unit of
Parameter	Received	Measure	Quantitation	Measure
Gasoline Range Organics (C5 - C9)	1000	mg/kg	125	mg/kg
Diesel Range Organics (C10 - C28)	2333	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Vaiue	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	2,068	13.8	15%
Diesel Range (C10 - C28)	ND	ppm	200	188	6.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	105	106	(80-120)	2	20%
Diesel Range (C10-C28)	91	89	(75-125)	2	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: Date: 10[6/17]

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LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Truj	iillo		Date:	6-0ct-97
Company:	On Site Technologies, Ltd. c/o Conoco., Inc.			COC No.:	6480
Address:	612 E. M	lurray Drive		Sample No.:	16321
City, State:	Farmingto	on, NM 87401		Job No.:	4-1374
Project Nam	ne:	Conoco, Inc Fa	rmington B-Com-	1E	
Project Loca	ation:	4-1374-EXC-1-2	,		
Sampled by	:	LT	Date:	24-Sep-97 Time:	13:50
Analyzed by	/:	DC	Date:	3-Oct-97	
Sample Mat	rix:	Soil			

Laboratory Analysis

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		638	ug/kg	500	ug/kg
Toluene		9803	ug/kg	500	ug/kg
Ethylbenzene		10038	ug/kg	500	ug/kg
m,p-Xylene		59515	ug/kg	500	ug/kg
o-Xylene		16156	ug/kg	500	ug/kg
	TOTAL	96151	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by: Date: 10/c/97

Sample Matrix:

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LAB: (505) 325-1556

ANALYTICAL REPORT

DRO Date:

2-Oct-97

Attn:	Larry Tru	jillo			Date:	6-0ct-97
Company:	: On Site Technologies, Ltd. c/o Conoco, Inc.				COC No.:	6480
Address:	612 E. N	lurray Drive			Sample No.:	16322
City, State:	Farmingt	on, NM 87401			Job No.:	4-1374
Project Nam	ne:	Conoco, Inc	Farmington B-Com-1E			
Project Loca	ation:	4-1374-EXC-1	1-3			
Sampled by	:	LT	Date:	24-Sep-97	Time:	14:08
Analyzed by	y:	DC/HR	GRO Date:	25-Sep-97		

Laboratory Analysis

	Results as	Unit of	Limit of	Unit of
Parameter	Received	Measure	Quantitation	Measure
Gasoline Range Organics (C5 - C9)	592	mg/kg	50	mg/kg
Diesel Range Organics (C10 - C28)	2216	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Soil

Quality Assurance Report

GRO QC No.: 0537-STD DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	2,068	13.8	15%
Diesel Range (C10 - C28)	ND	ppm	200	188	6.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	105	106	(80-120)	2	20%
Diesel Range (C10-C28)	91	89	(75-125)	2	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: Date: 10/6/97

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE EXAMPLE AFORT



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Tru	jillo		Date:	6-Oct-97
Company:	On Site 7	Fechnologies, Ltd. (c/o Conoco, Inc.	COC No.:	6480
Address:	612 E. M	lurray Drive		Sample No.:	16322
City, State:	Farmingto	on, NM 87401		Job No.:	4-1374
Project Nam	ne:	Conoco, Inc I	Farmington B-Com-1	E	
Project Loca	ation:	4-1374-EXC-1-	3		
Sampled by	:	LT	Date:	24-Sep-97 Time:	14:08
Analyzed by	/:	DC	Date:	2-Oct-97	
Sample Mat	rix:	Soil			

Laboratory Analysis

		Results as	Unit of	Limit of	Unit of
Parameter		Received	Measure	Quantitation	Measure
_					
Benzene		ND	ug/kg	500	ug/kg
Toluene		4564	ug/kg	500	ug/kg
Ethylbenzene		6650	ug/kg	500	ug/kg
m,p-Xylene		47225	ug/kg	500	ug/kg
o-Xylene		11175	ug/kg	500	ug/kg
	TOTAL	69614	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by: Date: 10/6/92

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LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 2-Oct-97

Internal QC No.: 0527-STD Surrogate QC No.: 0528-STD Reference Standard QC No.: 0529/30-QC

Method Blank

		Units of
Parameter	Result	Measure
Average Amount of All Analytes In Blank	<100	ррЪ

Calibration Check

Parameter	Units of Measure	True Value	Analyzed Value	RPD	Limit
Benzene	ppb	60.0	62.4	4	15%
Toluene	ppb	60.0	67.1	11	15%
Ethylbenzene	ppb	60.0	64.5	7	15%
m,p-Xylene	ppb	120.0	126.9	6	15%
o-Xylene	ppb	60.0	63.2	5	15%

Matrix Spike

	1- Percent	2 - Percent			RPD
Parameter	Recovered	Recovered	Limit	RPD	Limit
Benzene	92	87	(39-150)	5	20%
Toluene	102	97	(46-148)	4	20%
Ethylbenzene	92	92	(32-160)	0	20%
m,p-Xylene	91	91	(35-145)	0	20%
o-Xylene	98	107	(35-145)	7	20%

Surrogate Recoveries

	S1	S2
	Percent	Percent
Laboratory Identification	Recovered	Recovered
Limit Percent Recovery	(70-130)	
16322-6480	93	
		·
	4XX	m
	10/8/97	(0/6/97-

S1: Flourobenzene

- TECHNOLOGY BLENDING INDUSTRY COTTOTES SUMPLY ACTION



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 3-Oct-97

Internal QC No.:	0527-STD
Surrogate QC No.:	0528-STD
Reference Standard QC No.:	0529/30-QC

Method Blank

		Units of
Parameter	Result	Measure
Average Amount of All Analytes In Blank	<l0q< td=""><td>ppb</td></l0q<>	ppb

Calibration Check

Parameter	Units of Measure	True Value	Analyzed Value	RPD	Limit
					150/
Benzene	ррб	60.0	62.2	4	15%
Toluene	ppb	60.0	67.4	12	15%
Ethylbenzene	ppb	60.0	64.6	7	15%
m,p-Xylene	ppb	120.0	126.4	5	15%
o-Xylene	ppb	60.0	63.5	6	15%

Matrix Spike

	1- Percent	2 - Percent			RPD
Parameter	Recovered	Recovered	Limit	RPD	Limit
Benzene	103	101	(39-150)	2	20%
Toluene	82	83	(46-148)	1	20%
Ethylbenzene	83	84	(32-160)	1	20%
m,p-Xylene	86	86	(35-145)	1	20%
o-Xylene	102	101	(35-145)	1	20%

Surrogate Recoveries

	S1	S2
	Percent	Percent
Laboratory Identification	Recovered	Recovered
Limit Percent Recovery	(70-130)	
16321-6480	93	
<u> </u>	<u> </u>	
		<u> </u>
	+K.	60
	10/8/97	10/6/97-

S1: Flourobenzene

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE EXVIRONMENT -

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TECHNOLOGIES, LTD. 657 W. Maple • F	Date: . P. O. Box 2606 • Farmington NM 87499 • 325-5667 • FAX: (505) 325-6256	-	10-1	:		Ē	age	of
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Relinquished by:	Date/Time	Receiv	ed by:				Date/Time	
Relinquished by:	Date/Time	Receiv	ed by:				Date/Time	
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Authorized by: (Client Signature <u>Must</u> Accompany Requi	. Date lest)						.	
	Distribution: White - On Site Yellow - LAB	Pink – Sal	moler Goldenrod -	Cliant				



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Tru	ıjillo	Date:	7-0ct-97
Company:	On Site	Technologies, Ltd. c/o Conoco, Inc.	COC No.:	6502
Address:	Address: 612 E. Murray Drive		Sample No.:	16400
City, State: Farmington, NM 87401				4-1374
Project Nan	ne:	Conoco, Inc Farmington B-Com-1E		
Project Loo	otion	A. 127A EVC-2-1		

Froject Location:	4-13/4-EAU-2-1			
Sampled by:	LT	Date:	25-Sep-97 Time:	9:43
Analyzed by:	DC/HR	GRO Date:	1-Oct-97	
Sample Matrix:	Soil	DRO Date:	2-Oct-97	

Laboratory Analysis

	Results as	Unit of	Limit of	Unit of
Parameter	Received	Measure	Quantitation	Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	27	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,934	7.1	15%
Diesel Range (C10 - C28)	ND	ppm	200	188	6.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	93	95	(80-120)	1	20%
Diesel Range (C10-C28)	91	89	(75-125)	2	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: Date: 1077 (17

P.O. BOX 2606 • FARMINGTON, NM 87499 - TECHNOLOGY BLENDING INDUSTRY WITH THE EMVIRONMENT -



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Truji	illo		Date:	7-0ct-97
Company:	On Site To	echnologies, Ltd. c	/o Conoco, Inc.	COC No.:	6502
Address: 612 E. Murray Drive			Sample No.:	16401	
City, State: Farmington, NM 87401 Job No.:					
Project Nan	ne:	Conoco, Inc F	armington B-Com-1E		
Project Loc	ation:	4-1374-EXC-2-2	2		
Sampled by	<i>,</i> •	IT	Date	25-Sen-97 Time:	11.58

Sampled by:	LI	Date:	25-Sep-97 Time:	11:55
Analyzed by:	DC/HR	GRO Date:	1-Oct-97	
Sample Matrix:	Soil	DRO Date:	2-Oct-97	

Laboratory Analysis

	Results as	Unit of	Limit of	Unit of
Parameter	Received	Measure	Quantitation	Measure
Gasoline Range Organics (C5 - C9)	522	mg/kg	25	mg/kg
Diesel Range Organics (C10 - C28)	979	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ррЪ	1,801	1,934	7.1	15%
Diesel Range (C10 - C28)	ND	ppm	200	188	6.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Constitute Days (CE CO)			(00.120)		20.0%
Diesel Range (C10-C28)	93	89	(75-125)	2	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: Date: 10/7/97

P.O. BOX 2606 • FARMINGTON, NM 87499 - Technology Blending Industry 14th The Church Chert



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Tru	jillo		Date:	6-Oct-97
Company:	On Site T	^r echnologies, Ltd. d	:/o Conoco, Inc.	COC No.:	6502
Address:	612 E. M	lurray Drive		Sample No.:	16401
City, State:	Farmingt	on, NM 87401		Job No.:	4-1374
Project Nam	ne:	Conoco, Inc F	Farmington B-Com-	1E	
Project Loca	ation:	4-1374; EXC-2	2-2		
Sampled by	:	LT	Date:	25-Sep-97 Time:	11:58
Analyzed by	/:	DC	Date:	2-Oct-97	
Sample Mat	rix:	Soil			

Laboratory Analysis

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		ND	ug/kg	500	ug/kg
Toluene		ND	ug/kg	500	ug/kg
Ethylbenzene		4961	ug/kg	500	ug/kg
m,p-Xylene		52203	ug/kg	500	ug/kg
o-Xylene		18841	ug/kg	500	ug/kg
	TOTAL	76004	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by: Date: 10/6/97



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Trujillo			Date:	7-Oct-97
Company:	On Site	Technologies, Ltd. c	/o Conoco, Inc.	COC No.:	6502
Address:	612 E. Murray Drive			Sample No.:	16402
City, State: Farmington, NM 87401				Job No.:	4-1374
Project Nar	ne:	Conoco, Inc F	armington B-Com-1E	Ŧ	
Project Loc	ation:	4-1374-EXC-2-3	3		
Sampled by	/:	LT	Date:	25-Sep-97 Time:	13:10
Analyzed b	y:	DC/HR	GRO Date:	1-Oct-97	
Sample Ma	trix:	Soil	DRO Date:	3-Oct-97	

Laboratory Analysis

	Results as	Unit of	Limit of	Unit of
Parameter	Received	Measure	Quantitation	Measure
Gasoline Range Organics (C5 - C9)	1.4	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	91	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,934	7.1	15%
Diesel Range (C10 - C28)	ND	ppm	200	212	6.0	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	93	95	(80-120)	1	20%
Diesel Range (C10-C28)	85	99	(75-125)	14	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: Date: 10/7/97

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOON BLEWEING INDUSTRY - LATHE EVANCE MORT

Sample Matrix:



LAB: (505) 325-1556

ANALYTICAL REPORT

DRO Date:

3-Oct-97

Attn:	Larry Tru	ıjillo		Date:	7-Oct-97
Company:	On Site Technologies, Ltd. c/o Conoco, Inc.			COC No.:	6502
Address:	612 E. Murray Drive			Sample No.:	1 640 3
City, State:	; Farming	ton, NM 87401		Job No.:	4-1374
Project Nan	ne:	Conoco, Inc	Farmington B-Com-1E		
Project Loc	ation:	4-1374-EXC-2-	-4		
Sampled by	/:	LT	Date:	25-Sep-97 Time:	13:36
Analyzed b	y:	DC/HR	GRO Date:	1-Oct-97	

Laboratory Analysis

	Results as	Unit of	Limit of	Unit of
Parameter	Received	Measure	Quantitation	Measure
Gasoline Range Organics (C5 - C9)	420	mg/kg	50	mg/kg
Diesel Range Organics (C10 - C28)	1002	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Soil

Quality Assurance Report

GRO QC No.: 0554-STD DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ррђ	1,801	1,934	7.1	15%
Diesel Range (C10 - C28)	ND	ppm	200	212	6.0	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	93	95	(80-120)	1	20%
Diesel Range (C10-C28)	85	99	(75-125)	14	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: Date: 10/7/97

÷



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Tru	ıjillo		Date:	6-0ct-97
Company:	On Site	Technologies, Ltd. c/d	o Conoco, Inc.	COC No.:	6502
Address:	612 E. N	Aurray Drive		Sample No.:	16403
City, State: Farmington, NM 87401				Job No.:	4-1374
Project Nan	ne:	Conoco, Inc Fa	rmington B-Com-	1E	
Project Loca	ation:	4-1374; EXC-2-4	4		
Sampled by	:	LT	Date:	25-Sep-97 Time:	13:36
Analyzed by	y:	DC	Date:	2-Oct-97	
Sample Mar	trix:	Soil			

Laboratory Analysis

		Results as	Unit of	Limit of	Unit of
Parameter		Received	Measure	Quantitation	Measure
Benzene		ND	ug/kg	200	ug/kg
Toluene		236	ug/kg	200	ug/kg
Ethylbenzene		4362	ug/kg	200	ug/kg
m,p-Xylene		40995	ug/kg	200	ug/kg
o-Xylene		10503	ug/kg	200	ug/kg
	TOTAL	56096	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by: Ye (Date: 10/6/97

P.O. BOX 2606 • FARMINGTON, NM 87499 TECHNOL OF BLENETRY PROTECTION OF THE LEAST OF THE SECOND OF THE SEC



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Truj	iillo		Date:	7-Oct-97
Company:	On Site 7	echnologies, Ltd. c	/o Conoco, Inc.	COC No.:	6502
Address:	612 E. M	lurray Drive	Sample No.:	16404	
City, State: Farmington, NM 87401				Job No.:	4-1374
Project Nan	ne:	Conoco, Inc F	armington B-Com-1E		
Project Loc	ation:	4-1374-EXC-2-5	5		
Sampled by	<i>/</i> :	LT	Date:	25-Sep-97 Time:	13:37

Sampled by:	LI	Date.	25-Sep-97 Time.	13.57
Analyzed by:	DC/HR	GRO Date:	1-Oct-97	
Sample Matrix:	Soil	DRO Date:	3-Oct-97	

Laboratory Analysis

	Results as	Unit of	Limit of	Unit of
Parameter	Received	Measure	Quantitation	Measure
Gasoline Range Organics (C5 - C9)	438	mg/kg	100	mg/kg
Diesel Range Organics (C10 - C28)	1054	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Vałue	RPD	RPD Limit
	10		1.001	1.004		150/
Gasoline Range (C3 - C9)		ррь	1,801	1,934	7.1	15%
Diesel Range (C10 - C28)	ND	ppm	200	212	6.0	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	93	95	(80-120)	1	20%
Diesel Range (C10-C28)	85	99	(75-125)	14	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: Date:



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	Larry Tru	ıjillo		Date:	6-Oct-97
Company:	On Site	Technologies, Ltd. d	c/o Conoco, Inc.	COC No.:	6502
Address:	612 E. N	Aurray Drive		Sample No.:	16404
City, State:	Farmingt	on, NM 87401		Job No.:	4-1374
Project Nam	ne:	Conoco, Inc I	Farmington B-Com-	1E	
Project Loca	ation:	4-1374; EXC-2	2-5		
Sampled by	:	LT	Date:	25-Sep-97 Time:	13:37
Analyzed by	y:	DC	Date:	2-Oct-97	
Sample Mat	trix:	Soil			

Laboratory Analysis

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		ND	ug/kg	250	ug/kg
Toluene		686	ug/kg	250	ug/kg
Ethylbenzene		3543	ug/kg	250	ug/kg
m,p-Xylene		38776	ug/kg	250	ug/kg
o-Xylene		11440	ug/kg	250	ug/kg
	TOTAL	54445	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by: Date: 10/c/97

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLE OF BLEMBING BUDGATES THE THE DATA AND THE



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 2-Oct-97

OFF: (505) 325-5667

Internal QC No.:	0527-STD
Surrogate QC No.:	0528-STD
Reference Standard QC No.:	0529/30-QC

Method Blank

· · · · · · · · · · · · · · · · · · ·		Units of
Parameter	Result	Measure
Average Amount of All Analytes In Blank	<l0q< td=""><td>ppb</td></l0q<>	ppb

Calibration Check

Parameter	Units of Measure	True Value	Analyzed Value	RPD	Limit
Benzene	ppb	60.0	62.4	4	15%
Toluene	ppb	60.0	67.1	11	15%
Ethylbenzene	ppb	60.0	64.5	7	15%
m,p-Xylene	ppb	120.0	126.9	6	15%
o-Xylene	ppb	60.0	63.2	5	15%

Matrix Spike

	1- Percent	2 - Percent			RPD
Parameter	Recovered	Recovered	Limit	RPD	Limit
Benzene	92	87	(39-150)	5	20%
Toluene	102	97	(46-148)	4	20%
Ethylbenzene	92	92	(32-160)	0	20%
m,p-Xylene	91	91	(35-145)	0	20%
o-Xylene	98	107	(35-145)	7	20%

Surrogate Recoveries

	S1	S2
	Percent	Percent
Laboratory Identification	Recovered	Recovered
Limit Percent Recovery	(70-130)	
16401-6502	92	
16403-6502	89	
16404-6502	91	
	THE	(n).
	10/8/97-	10/6/97

S1: Flourobenzene

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRY MMENT -

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	CHAIN OF CUST	DDY RECO	RD	6502
ON SITE	Date:	9-25-97		Page
TECHNOLOGIES, LTD. 🔰 657 M	V. Maple • P. O. Box 2606 • Farmington NM 87499 LAB: (505) 325-5667 • FAX: (505) 325-6256			
Purchase Order No.:	Jub No 4-1374	Name Lave	4 [m.1.1 k	Title
Name LARRY TWULL			DNOCO	
DO Company Corroco	Dept.	Mailing Address		
SERVICE Address		City, State, Zip		
City, State, Zip		Telephone No.		Telefax No.
Sampling Location: FMTN B-COM	- 15		ANALYSIS REQU	JESTED
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Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

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FARMINGTON Unit "O", S15,	1 "B" COM #1E T29W, R13W	SITE SKETCH	
SAN JUAN I	BASIN, NM	DRWN: 11-03-97	ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499
PROJECT NO: 4-1	374	DRWN BY: MKL	(505) 325-5667
FIGURE: A-1 FILE: 41374A1.CAD		PROJECT: SITE RECLAMATION	

On Site Technologies Safety Meeting Form

Job Site Safety Meeting Form

It is the express policy of *On Site Technologies* to conduct a safety meeting with all involved *On Site Technologies* employees and subcontracted employees prior to beginning work on any job site. Where applicable the *On Site Technologies* supervisor will conduct the meeting and prepare the following form. All safety meetings and topics will comply with State and Federal Regulations and any safety procedures issued by the client. *No work shall commence prior to the safety meeting.*

Location: FMTN B-COM-IE	Client: Cono co
Date: <u>9-25-97</u> Time:	0800
On Site Technologies job number: 4-137-/	
Type of work to be performed: Excauation	n of former RL

On Site Technologies Supervisor: (Signature) Please Print

Other Personnel:

Your signature below indicates that you attended the above described safety meeting, fully understand the topic(s), and agree to perform your job duties in full compliance with all safety rules in effect.

Name (Please Print)	Company	Signature
Authony VALENCIA Rehard Hulbert	Coursalad ted Cour	arthory Valuria
(Attach additional page(s) if needed)		
Safety Meeting Topic / Discussion hard hat / Safery Glass	on (Briefly describe or outline all safety es w/Side Sheilds.	issues addressed in the meeting) Coats
under ground util	uties	
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On Site Technologies Safety Meeting Form

Job Site Safety Meeting Form

It is the express policy of *On Site Technologies* to conduct a safety meeting with all involved *On Site Technologies* employees and subcontracted employees prior to beginning work on any job site. Where applicable the *On Site Technologies* supervisor will conduct the meeting and prepare the following form. All safety meetings and topics will comply with State and Federal Regulations and any safety procedures issued by the client. *No work shall commence prior to the safety meeting.*

Location: Frin B-Com-IE	Client: Conoco
Date: 9-24-97	Time: <u>D824</u>
On Site Technologies job numb	er:
Type of work to be performed:	Excavition of Former RI site
Lane y Teujillo (Please Print)	On Site Technologies Supervisor:
Other Personnel:	/

Your signature below indicates that you attended the above described safety meeting, fully understand the topic(s), and agree to perform your job duties in full compliance with all safety rules in effect.

Name (Please Print)	Company	Signature
Ken CAVE Richard Harbuin	Consoladitze Con	Richa Anna
· · · · · · · · · · · · · · · · · · ·		

(Attach additional page(s) if needed)

Safety Meeting Topic / Discussion (Briefly describe or outline all safety issues addressed in the meeting)

Bonta al tone Salery Glasses Shell w/side utize over head er goound Un lines 805 110 0 FOIL

(Attach additional page(s) as necessary)

PRE-JOB HAZARD EVALUATION MEETING. COMPANY: ONSITE. DATE: 9-25-57 LOCATION: COMOCO FRAMILA B-COMIE WORK BEING PERFORMED: EXCAUSTing of Chentoking _50,15 HAZARDS IDENTIFIED: Undergrand GAS & Power /10over head Power liver, Robbles strike . personel Fran Screen Maching, Hand Arm hazand from Screening Machine ACTION TAKEN ON IDENTIFIED HAZARDS: Salety Mrg Disscusian, Site weak 17 1. en ta servera e NO___ WAS COMPANY EMPLOYEE ON LOCATION ? YES_ BE ON LOCATION ? YES_ NO SHOULD A COMPANY EMPLOYEE DO PJHEMS CONTRIBUTE TO A SAFER JOB ? YES___ NO_ IF YES WHY ?____ HOW DO YOU THINK WE CAN IMPROVE PJHEMS ?