

CONOCO INC.

MCA #2A TRUNKLINE LEAK

ENVIRONMENTAL SITE INVESTIGATION

PERFORMED BY:

BBC INTERNATIONAL, INC. **WORLD-WIDE ENVIRONMENTAL SPECIALISTS** 1324 W. MARLAND BLVD. P. O. BOX 805 HOBBS, NEW MEXICO 88240 (505)397-6388 • FAX (505)397-0397 EMAIL: bbc@bbcinternational.com WEBSITE: www.bbcinternational.com

NOVEMBER 19, 2001

PREPARED FOR:

MR. JOHN COY CONOCO INC. **PO BOX 180**

MALJAMAR, NEW MEXICO 88264

CONOCO 217817 facility & PACOGOS 132578 incident nPACOGOS 132658 application pPACOGOS 132797



PHONE (505) 397-6388 • FAX (505) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: bbc@bbcinternational.com

April 12, 2002

Chris Williams
NM Oil Conservation Division

Hobbs, NM 88240

RE: Conoco, Inc. – MCA #2A Trunkline Leak

Dear Mr. Williams:

BBC International, Inc. respectfully submits this site investigation report for the MCA #2A Trunkline on behalf of Conoco, Inc.

This site is an area that was investigated due to an injection line leak that occurred on December 16, 1999. Approximately 230 barrels of produced water was released with 205 barrels recovered.

The initial investigation and sampling was conducted on October 16, 2000. In Novemeber 2000, the results were discussed with you and you requested additional sampling at a greater depth to track the downward migration of the chlorides. Additional samples were taken at greater depths on October 11, 2001. This report details the results.

As can be found in the report, the chlorides are reduced greatly at depth. The recommendation is to halt any further investigations activities and conduct surface remediation measures only.

I look forward to your review of this report and the agreement to our recommendation. If you have any questions, please do not hesitate to contact me at (505)397-6388 or at the address above.

Sincerely,

BBC International, Inc.

Ken Swinney, CEI, CRS Director of Operations

KS:js

encl.

Conoco MCA # 2A Trunkline Leak 12-16-99

1.0 INTRODUCTION

The subject site is located south of Maljamar, New Mexico in Unit Letter D of Section 28, Township 17 South, Range 32 East. The site consists of undeveloped rangeland. On December 16, 1999, an injection line leaked approximately 230 barrels of produced water with 205 barrels being recovered.

2.0 SITE CHARACTERIZATION

The leak area runs East-West for approximately 180 feet on either side of the trunkline. The leak area is approximately 24 feet wide. The surface soil is red sand. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. Based on data from the ground water monitoring well located at the Conoco Maljamar Plant, depth to ground water is approximately 90 feet?

3.0 SITE INVESTIGATION ACTIVITIES

On June 22, 2000, Conoco personnel took a three point composite sample at the site for laboratory analysis. This sample was taken at a depth of 6 feet 8 inches. The lab results are located on Figure 1 and in Appendix II. On October 16, 2000 BBC personnel conducted an inspection of the site. One sample point was collected at the site at a depth of 8 feet using a backhoe. On October 11, 2001, BBC personnel returned to the site to take additional soil samples at a greater depth. One sample point was drilled to a depth of 34 feet, using BBC's tractor mount drilling rig. Field screening techniques were used to determine samples to be sent for laboratory analysis. Field screening consisted of field chloride titrations. Lab results are located on Figure 1 and in Appendix I. Pictures of investigation activities are located in Appendix III.

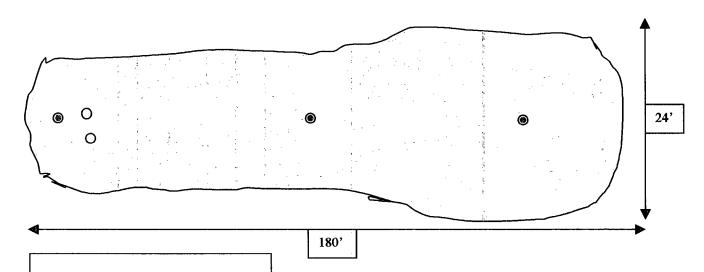
4.0 CONCLUSION AND RECOMMENDATION

The data shows low chloride concentrations of 701 ppm at 6 feet 8 inches, 763 ppm at 8 feet, and 416 ppm at 34 feet. Taking into consideration that the depth to groundwater is greater than fifty-five feet, and the subsurface soil lithology at the site consists of caliche and sandstone layers, it is evident that the migration of chlorides to groundwater is unlikely. Therefore it is recommended that only surface remediation is necessary. This could consist of the addition of gypsum, ammonium nitrate, Salt-Block, or other amendments that will reduce the chloride concentrations in the soil to allow for revegetation.

Figure 1



CONOCO MCA #2A TRUNKLINE LEAK 12-16-99



LEGEND

O CONOCO sample point 6-22-00 composite sample

OBBC sample point 10-16-00, 10-11-01 grab sample

SAMPLE	DATE	DEPTH	CHLORIDE
CONOCO	6-22-00	6'8"	701 PPM
BBC	10-16-00	8'	763 PPM
BBC	10-11-01	25'	416 PPM

BBC INTERN	IATIONAL, INC.
CONOC	O MCA #2A
Date: 11-19-01	Drawn By: Ken
Disk:	Sheet of Sheets
Scale: Not to Scale	File Name

Vistriet I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Form C-141 Revised March 17, 1999

Final Report

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

☐ Initial Report

Release Notification and Corrective Action OPERATOR

Name of Company Concoc, Inc. Address 10 Desta Drive, Ste 100W, Midland, Texas 79705 Facility Name 100° WNW of MCA #252 Surface Owner Caswell Unit Letter Section, Township D Base Refer to more 1250° North South Line D Base North South Line D Bas		7.0				
Address Desta Drive, Stc 100W, Midland, Texas 19705 Telephont No.	- :	į	leon			
10 Desta Drive, Ste 100W, Midland, Texas 79705 Facility Name 100'WNW of MCA #252 A TREAM LIME Facility Type Injection Well						~
Facility Name 100' WNW of MCA #252	1					
Surface Owner Caswell Mineral Owner Lease No. LC057210 / 6987018						
Lease No. LCO\$7210 / 6987018						
Location of Release	100' WNW OI MCA #252 (2) / RONN LINE	Injection	weii			
LOCATION OF RELEASE	Surface Owner Mineral Owner				Lease No.	
LOCATION OF RELEASE						87018
Unit Letter Section Township 28 178 32E Feet from the 1250' North/South Line 200' East/West Line County Lea			······································		<u> </u>	
NATURE OF RELEASE Type of Release Salt Water Type of Release Salt Water Source of Release Salt Water 230 bbls of salt water 220 bbls	LOCATION	OF RELI	EASE			
NATURE OF RELEASE Type of Release Sair Water Source of Release Source of Release Source of Release Pipe (2.5 Steel, Buried) Was Immediate Notice Given? Was Immediate Notice Given? Was Immediate Notice Given? Was Immediate Notice Given? No Not Required No Not Required No Not Required No Not Required No Date and Hour of Occurrence 12/16/99 at 2:15 PM If YES, To Whom? NMCCD - Sylvia (via fax) Date and Hour 12/16/99 at 2:15 PM If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully. Describe Cause of Problem and Remedial Action Taken.* Cause of Problem: Internal corrossion to pipe Remedial Action Taken: Replaced section of pipe with new I.P.C. Describe Area Affected and Cleanup Action Taken.* All drift sand -25'x250'. Upon drying, will backdrag, cover and remediate in place Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases, which may endanger public health or the environment. The acceptance of a C-141 report does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other/federal, state of local laws and/or regulations. OIL CONSERVATION DIVISION Approved by District Supervisor: Approved by District Supervisor:	Unit Letter Section Township Range Feet from the North	/South Line	Feet from the	East/West 1	Line County	
Type of Release Salt Water 230 bbls of salt water 240 bbls of salt water 250 bbls of salt w	D 28 17S 32E 1250'	North	200'	West		Lea
Type of Release Salt Water 230 bbls of salt water 240 bbls of salt water 240 bbls of salt water 250 bbls of salt w				<u>L</u>		
Saft Water Source of Release Pipe (2.5 Steel, Buried) Was Immediate Notice Given? Yes No Not Required Date and Hour of Occurrence 12716/99 at 10:00 AM + 12716/99 at 2:15 PM If YES, To Whom? Larry Minnick Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Cause of Problem: Internal corrosion to pipe Remedial Action Taken: Replaced section of pipe with new I.P.C. Describe Area Affected and Cleanup Action Taken.* All drift sand - 25'x250'. Upon drying, will backdrag, cover and remediate in place I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases, which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of isability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, at local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Title: Agent for Congoo, Inc. Approved by District Supervisor:	NATURE C	F RELEA	ASE			
Source of Release Pipe (2.5 Steel, Buried) Was Immediate Notice Given? Was Immediate Notice Given? Was Immediate Notice Given? Was Immediate Notice Given? Not Required Not Required Not Required Not Required Page 12/16/99 at 8:00 PM If YES, To Whom? NMOCD – Sylvia (via fax) NMOCD – Sylvia (via fax) By Whom? Larry Minnick Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* Cause of Problem: Internal corrosion to pipe Remedial Action Taken: Replaced section of pipe with new I.P.C. Describe Area Affected and Cleanup Action Taken.* All drift sand – 25'x250'. Upon drying, will backdrag, cover and remediate in place I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases, which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of itability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, by local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Title: Agent for Congeo, Inc. Approved by District Supervisor:	Type of Release	Volume of	Release	V	olume Recovere	d
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of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Title: Agent for Conoco, Inc. Approval Date: Expiration Date:	and regulations all operators are required to report and/or file certain relea	se notification	s and perform co	rrective actio	ns for releases, v	vhich may
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Compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Title: Agent for Conoco, Inc. Approval Date: Expiration Date:						
OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Title: Agent for Conoco, Inc. Approval Date: Expiration Date:		e of a C-141 r	eport does not rei	neve the oper	ator of responsib	inty for
Signature: Approved by District Supervisor: Title: Agent for Conoco, Inc. Approval Date: Expiration Date:	compliance with any other rederal, state, qui local laws althrol regulations.	<u> </u>	OIL CONICE	ZD X/ A TY	NI DIVICIO	NT -
Printed Name: Betsy Ritter Approved by District Supervisor: Title: Agent for Conoco; Inc. Approval Date: Expiration Date:	K I II		OIL CONSI	CKVAIIU	חופואות עו	<u>. 7</u>
Printed Name: Betsy Ritter Approved by District Supervisor: Title: Agent for Conoco; Inc. Approval Date: Expiration Date:	Signature: Assign atta					
Title: Agent for Conoco; Inc. Approval Date: Expiration Date:	21.50%	Approved h	vDistrict Supervi	isor:		J
Attached Attached	Printed Name: Betsy Ritter					
Attached Attached						
Date: March 20, 2000 Phone: (915) 570-6007 Conditions of Approval: Attached	Title: Agent for Conoco, Inc.	Approval D	ate:	Exp	iration Date:	
	D.4. Marris 20 2000 Di (015) 570 5007	1			1 -	
* Attach Additional Sheets If Necessary		Conditions	of American		Attach	ed

Appendix I



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON

P.O. BOX 805 HOBBS, NM 88241

FAX TO: (505) 397-0397

Receiving Date: 10/15/01
Reporting Date: 10/16/01
Project Owner: CONOCO

Project Name: MCA CONOCO Project Location: MALJAMAR

Analysis Date: 10/16/01 Sampling Date: 10/11/01 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

LAB NUMBER	SAMPLE ID	CI [—] (mg/Kg)
H6214-1	MCA 2A-34'	416
•		
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percent	Difference	1.0

METHOD: Standard Methods 4500-CIB

Analysis performed on a 1:4 w:v aqueous extract.

Chemist

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

H6214

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARD	ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603		/605) 303-2326 Eay /505) 303-2476	88240 Page of L
Company Name: /	BBC Introntion	,		ANALYSIS REQUEST
	it Pour		BILL TO PO#:	
Address: / 32 y	15		Company:	
City: /1/8 6 95	State; wZip:	" 882 VO	Attn:	
	347-6388			
	7 - 0		City: 377777	
~		Conoco	State: Zip:	
Project Name: M	(%)	• • • • • • • • • • • • • • • • • • • •	Phone #:	
۶.	mula			<u>L</u>
FOR LAB USE ONLY		MATRIX	PRES. SAMPLING	
LAB I.D.	Sample i.D.)RABOR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER DIL LUDGE	THER: CID: E / COOL. THER:	Chlori
M6214-1	MCA- 2A-24'	7	10-11-01)) MOO:
80				
PLEASE NOTE: Liability and Dai	mages. Cardnal's fability and client's exclusive	remedy for any claim arising whether be	PLEASE NOTE: Liability and Damages. Cardrat's liability and clear's exclusive namedy for any chain analing whether based in contract or tort, shall be limited to the amount paid by the clear for the	xe applicable
analysed. All distins including the service. In no event shall Cardini addition of a property of the services	as no negigenous and any cours carries in interest in the stable for incidental or consequential dama. It of or maketad to the performance of services it.	ges, including without limitation, business versunder by Cardinal, regardess of whe	alalyse. A dains inclorg note or regigato and any over removed and provided installor, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinals a table for inclurate or consequents dismages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and to service the services have been a serviced in the services have been a serviced by the services in the section of the above stated research or otherwise.	•
Sampler Relinquish	ned: Date:	Received By:	Sampler Relinquished: Date: Received By: Phone Result You	one Result: ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Time:	Received By: (Lab Stam	(Lab Staff)	
Jaime 10%		to him	La Allack	•
Delivered By: (1	(Circle One)	Coel Intage	(in)	
Sampler - UPS - E	Bus - Other:		No.	

[†] Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL INC. ATTN: CLIFF BRUNSON 1324 W. MARLAND

HOBBS, NM 88240 FAX TO: (505) 397-0397

Receiving Date: 10/17/00
Reporting Date: 10/18/00
Project Number: NOT GIVEN

Project Name: MCA CONOCO
Project Location: MALJAMAR, NM

Sampling Date: 10/16/00 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP Analyzed By: BC/AH

		TPH	CI*
LAS NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS	DATE:	10/17/00	10/18/00
H5264-1	MCA#21FL 5'6"	2290	267
H5264-2	MCA#21FL 11'	38100	168
H5264-3	MCA#21FL 18'1"C	-	; 229
H5264-4	MCA#21FL 18'1"T	1500	-
H5264-5	MCA#169-1	-	610
H5264-6	MCA#169-2		2000
H5264-7	MCA 2A INJ. LINE	-	763
H52 64 -8	FILL DIRT	<10	61
Quality Con	trol	218	1039
True Value	QC .	240	1000
% Recovery		90.9	104
Relative Per	cent Difference	7.0	1.3

METHODS: TPH-EPA.600/4-79-020 418.1; CI-Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts.

Chemist Chemist

Date

H5264.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services bersunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL INC. ATTN: CLIFF BRUNSON 1324 W. MARLAND

HOBBS, NM 88240 FAX TO: (505) 397-0397

Receiving Date: 10/17/00 Reporting Date: 10/19/00

Project Number: NOT GIVEN
Project Name: MCA CONOCO

Project Location: MALJAMAR, NM

Sampling Date: 10/16/00

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS [DATE	10/19/00	10/19/00	10/19/00	10/19/00
H5264-1	MCA#21FL 5'6"	0.020	0.008	0.902	1.02
H5264-2	MCA#21FL 11'	1.30	8.71	42.3	79.6
H5264-4	MCA#21FL 18'1"T	<0.005	0.009	0.006	0.016
H5264-8	FILL DIRT	<0.005	<0.005	<0.005	<0.015
			1		
Quality Cont		0.089	0.092	0.090	0.273
True Value C		0.100	0.100	0.100	0.300
% Recovery		89.0	92.4	90.4	91.1
Relative Per	cent Difference	1.9	2.1	1.9	1.8

METHOD: EPA SW-846 8260

Chemist2

Date

H5264B.XLS

ARDINAL LABORATORIES

0076, N. Shirish • ONWINES 3101 • 51(2.68) 5805-3808-4

Company Name:	COMPANY NAME CAR INTERNATIONAL INC.	ZA	Ų		<u>لــ</u>							_	4	ANALYSIS KEQUESI	3	200	7.7		
Project Manager:	Project Manager: Cliff P Bunton					OL THE	1.76) 	Ь	PO#.		-							
Address: (324)	Address: 1324 W. Marland		; }		ŭ	Company:	. <u>;</u>	į	į							·			
CHY. Hodbs	State: UM To: 87840	222	\$	1	7	Altn:	1	Y	911	C,						,			
Phone #: 1-205-399-6388	397-6388				<u>¥</u>	Addross:		X	V										
Fat: 1-505-397-0397	397-0397			}	<u>[]</u>	CITY:		18	Bove	0.1						<u>-</u>			
Project #:					জ	State:	•		2	Zlp:						<u> </u>			
Project Name: MCP	A CONOCO				ā	Phone #:	٠					,			<u> </u>				
Project Location: N	Project Location: Mal J Amar				F	Fax #:						<u> </u>							
			_	_	MATRIX	×		100	P &C &C & T & T 1 & 4	_	SAMPLING	_							
LAB LD.#	Sample LD.	COMP(C) OR GRAB(C)	язтамонова	MASTEWATER	אר זמר	RUDGE	: REHTC	vcio:	CE/COOL	: яэнто ,	H H H	1	21919. 1814 Hd						
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7 -	MCA#21 FL 11"				7				7	2-0/	10-4-00 9:411	7	7		-		-	! 	Ī
- 3	MCR#2152 18116	<u>`</u>			Z				Z	10%	104.00 9:30	-\$	7					! 	T
<i>ħ</i> -	MCA#21FL 18'1"T				7				7	1016	1016-00 9:00	7							
2	MCR# 169-1 10'	/			7			-	7	10 10	10%-00 1:20		7						1
3					7				7	10-16	10-16-00 2:45		>						Ī
-7	MCA 2A INT LINE	<i>/</i>							7	91-01	00:4 00.9/-01		7				-	-	<u> </u>
3-1	Kill Dirt				7	_			7	10 16.	10 16-00 4:15	7	7						
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PLESS POTE (Labelly and Demogra Conditions), as and countries among the system graphs are the water countries of the system of t

Sampler Relinquished: Lactor Received By: Received By: Received By: (Lab Staff) Time: Time: Told: Time: Ti	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rocelved By: (Lab Staff) Received By: (Lab Staff) Sample Condition Con Infact	HECKED BY:	Phone Result Yes No Additional Fax #: Fax Results: Yes No REMARKS:
UPS - Fod Ex - Bus - Other: (\$30	Sammer	Zes Zes		
,		· · ·		

Appendix II

MR. JOHN COY CONOCO, INC. P.O. BCX 180 MALJAMAR, NEW MEXICO 88264

JUNE 28, 2000

DEAR MR. COY:

THE FOLLOWING ARE THE RESULTS OF THE FOUR SOIL SAMPLES, RECEIVED 06/26/00, LAB NOS. 791-794:

CHLORIDES

mg/Kg

LAB NO. 791: MCA #169
SITE #1 10:00 AM (274"
SAMPLED 06/22/00

LAB NO. 792: MCA #169 7,886 SITE #2 COMP. @ 59" SAMPLED 06/22/00 2:40 PM

LAB NO. 793: MCA #2A 701
TRUNK LINE COMP. @ 80"
SAMPLED 06/22/00 2:10 PM

LAB NO. 794: MCA #21 564 3 PT CCMP @ 14' SAMPLED 06/23/00 9:30 AM

METHOD:

CHLORIDES - AGRICULTURE HANDBOOK NO. 60 3C(1:10) SMWW 407-C

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID SR/md

MR. JOHN COY CONOCC, INC. P.O. BOX 180 MALJAMAR, NEW MEXICO 88264

JUNE 29, 2000

DEAR MR. COY:

THE FOLLOWING ARE THE RESULTS OF THE FOUR SOIL SAMPLES FOR ETEX, RECEIVED 06/26/00, LAB NOS. 791-794:

	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL BENZENE mg/Kg	XYLENES mg/Kg
IAB NO. 791: MCA #169 SITE #1 10:00 AM SW/ 27/4" SAMPLED 06/22/00	< 0.139	< 0.100	< 0.100	< 0.100
LAB NO. 792: MCA #169 STTE #2 COMP. @ 59" SAMPLED 06/22/00 2:4		< 0.100	< 0.100	< 0.100
LAB NO. 793: MCA #2A TRUNK LINE CCMP. @ 80" SAMPLED 06/22/00 2:1		< 0.100	< 0.100	< 0.100
LAB NO. 794: MCA #21 3 PT COMP @ 14'		0.670	1.040	6.680
SAMPLED 06/23/00 9:3	O AM			

NOTE: BTEX RESULTS ARE FROM ANOTHER LABORATORY.

< = LESS THAN

SAMPLE MATRIX: SOIL

METHODS: SW 846-8021B, 5030A

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS.

IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION,
PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID SR/dt

MR. JOHN COY CONOCO, INC. P.O. BOX 180 MALJAMAR, NEW MEXICO 88264

2/-11-00; 3:15-M,CONCCO FACECTION

JUNE 28, 2000

C.3905

DEAR MR. COY:

THE FOLLOWING IS THE RESULT OF THE SOIL SAMPLE FOR TOTAL PETROLEUM HYDROCARBONS, RECEIVED 06/26/00, LAB NO. 794:

> TOTAL PETROLEUN HYDROCARBONS

LAB NO. 794: MCA #21 3 PT COMP @ 14' SAMPLED 06/23/00 9:30 AM 3,905

HEIROD: EFA 418.1

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID SR/dt

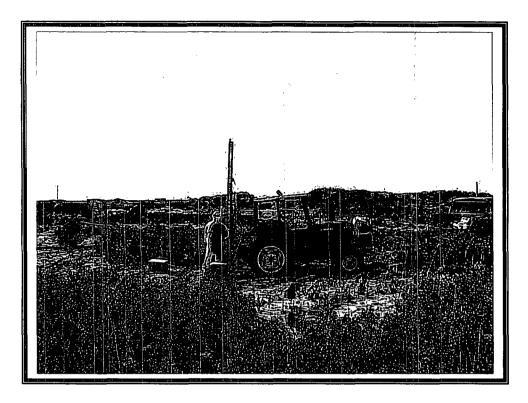
Appendix III





MCA #2A Trunkline – Sample taken at 8'.





MCA #2A Trunkline Leak – Sample taken at 34' on 10-11-01



PHONE (505) 397-6388 • FAX (505) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: bbc@bbcinternational.com

April 12, 2002

Chris Williams

NM Oil Conservation Division

Hobbs, NM 88240

RE: Conoco, Inc. - MCA #169 Injection Line Leak #2

Dear Mr. Williams:

BBC International, Inc. respectfully submits this site investigation report for the MCA#1693 Injection Line Leak #2 on behalf of Conoco, Inc.

This site is an area that was investigated due to an injection line leak that occurred on May 8,3 2000. Approximately 140 barrels of produced water was released with 90 barrels recovered.

The initial investigation and sampling was conducted on October 16, 2000. In November 2000, the results were discussed with you and you requested additional sampling at a greater depth to track the downward migration of the chlorides. Additional samples were taken at greater depths on October 12, 2001. This report details the results.

As can be found in the report, the chlorides are reduced greatly at depth. The recommendation is to halt any further investigations activities and conduct surface remediation measures only.

I look forward to your review of this report and the agreement to our recommendation. If you have any questions, please do not hesitate to contact me at (505)397-6388 or at the address above.

Sincerely,

BBC International, Inc.

Ken Swinney, CEI, CRS Director of Operations

KS:is

encl.