P. DEFICE CAS INSPECTOR 194

P.O. Drawer DD, Artesia, NM 88211

<u>District JUN</u> 2 3 1998

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico

CAS INSPECTOR rgy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe. New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

99			
Operator: Cono	co, Inc	Telephone: 915-	-686-5453
Address: 10 Des	tra Drive, Suite 100W,	Midland, TX 79705-4	<u>1500</u>
Facility Or Well Name: <u>Mudg</u>	e Federal #2 Pit #1		
Location: Unit or	Qtr/Qtr Unit <u>G</u> Sec 29]	[27N R11W County <u>San Ju</u>	an
Pit Type: Separat	or Dehydrator <u>X</u> O	ther	
Land Type: BLM _X	C., State, Fee, Oth	er	
Pit Location: Pi	it dimensions: length <u>10</u>	, width <u>10'</u> depth	ı3 <i>'</i>
(Attach diagram) Re	eference: wellhead, ot	her <u>Meter House</u>	_
Fo	ootage from reference:	450 ′	
Di	rection from reference:	Degrees East	
		West	of South <u>X</u>
Depth To Ground V (Vertical distance from contaminants to season high water elevation ground water)		Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)
Wellhead Protection (Less than 200 feet for domestic water source) 1000 feet from all ot	iron a private	Ye No	es (20 points) o (0 points)
Distance To Surfa (Horizontal distance lakes, ponds, rivers, irrigation canals and	to perennial streams, creeks,	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)
		RANKING SCORE (TOTA	AL POINTS): 0

Date Remediation Start	ed:	Date	Completed:
Remediation Method: E	xcavation	Approx.	cubic yards
	ndfarmed	Insitu B	ioremediation
o	ther		
	<u> </u>		
			
Remediation Location: (ie. landfarmed onsite, name and location of offsite facility)	Onsite Offsite		
General Description Of	Remedial Action:	Two sampl	es were taken from
the center and south s			
Samples were split, co	mposited and place	ed into a	clean jar with a Teflon®
to laboratory for TPH	analysis lab ros	s 1212.0 p	opm. Sample was transported total TPH of 1309.0 ppm.
Pit covered during sit	e rehab on 9/16/9	dits were	total TPH of 1309.0 ppm.
310	<u> </u>		
Ground Water Encounter	ed: No X Yes	Dept	h
Final Pit: Closure Sampling: (if multiple samples, attach sample results	Sample location: 2 posidewall of pit.	oint composi	te center and south
and diagram of sample locations and depths)	Sample depth: 3 feet	t below pit 1	oottom
	Sample date: <u>6/4/97</u>		Sample time: 1228
	Sample Results		
	Benzene (ppm)		0.154
	Total BTEX (ppm))	9.36
	Field headspace	(ppm)	1212.0
	TPH <u>1309</u>	.0 <u>ppm</u>	
Ground Water Sample:	Yes 1	No <u>X.</u> (I	f yes, attach sample results)
I HEREBY CERTIFY THAT TO OF MY KNOWLEDGE AND BEI	THE INFORMATION AF	BOVE IS TR	UE AND COMPLETE TO THE BEST
DATE 2/4/98	DD 1370000	. Mari	
SIGNATURE Shirtly L. Ehin	PRINTED NA AND TITLE	11	1 L. EBERT SHEAR Specialist



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Larry Trujillo

Date:

11-Jun-97

Company: On Site Technologies, Ltd. c/o Conoco

COC No.:

6393

Address:

612 E. Murray Drive

Sample No.:

14831

City, State: Farmington, NM 87401

Job No.:

4-1368

Project Name:

Conoco - Mudge Federal #2

Project Location:

Mudge #2; Pit#1, Sample #1

Date:

4-Jun-97 Time:

12:28

Sampled by: Analyzed by: LT DC/HR

GRO Date:

6-Jun-97

Sample Matrix:

Soil

DRO Date:

6-Jun-97

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	284	mg/kg	25.0	mg/kg
Diesel Range Organics (C10 - C28)	1025	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,351	1,227	9.6	15%
Diesel Range (C10 - C28)	ND	ppm	100	106	5.6	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	77	83	(80-120)	8	20%
Diesel Range (C10-C28)	76	89	(84-118)	15	20%

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

Approved by: Approved by: 6/11/97

P.O. BOX 2606 • FARMINGTON, NM 87499

- Thomas is on Blending Industry with the Environment -



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Larry Trujillo

City, State: Farmington, NM 87401

Date:

10-Jun-97

Company: On Site Technologies, Ltd. c/o Conoco

COC No.:

6393

Address: 612 E. Murray Drive

Sample No.:

14831

Job No.:

4-1368

Project Name: Project Location: Conoco - Mudge Federal #2

Sampled by:

Mudge #2 Pit #1; Sample #1 LT Date:

4-Jun-97 Time:

12:28

Analyzed by: Sample Matrix: HR Soil

Date:

5-Jun-97

Laboratory Analysis

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		154	ug/kg	100	ug/kg
Toluene		1336	ug/kg	100	ug/kg
Ethylbenzene		1265	ug/kg	100	ug/kg
m,p-Xylene		6152	ug/kg	100	ug/kg
o-Xylene		455	ug/kg	100	ug/kg
	TOTAL	9362	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by: Date:

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CHAIN OF CUSTODY RECORD

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

TECHNOLOGIES, LTD.

				-	-				
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Method of Shipment:	mente continue		- Paragraphi	Rush	٠	24-48 Hours	10 Working Days	Special Instructions:	
Authorized by:	(Client Signature Must Accompany Request)	luest) Date	8	-					
		Distribution: White - On Site	On Site Yellow - LAB		Pink - Sampler Gol	Goldenrod – Client			

District I P.O. Box 1980, Hobbs, NM

State of New Mexico Energy, Minerals and Natural Resources Department

District II P.O. Drawer DD, Artesia, NM 88211

District III 1000 Rio Brazos Rd, Aztec, NM 87410

APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

SUBMIT 1 COPY TO

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco, Inc	Telephone: 915-686-5453
Address: 10 Destra Drive, Suite 100	OW, Midland, TX 79705-4500
Facility Or Well Name: <u>Mudge Federal #2 Pit #2</u>	
Location: Unit or Qtr/Qtr Unit G sec_29	T27N R11W County San Juan
Pit Type: Separator Dehydrator_X Other	er
Land Type: BLM_X_, State, Fee, ot	her
Pit Location: Pit dimensions: length 1 (Attach diagram) Reference: wellhead , or Footage from reference: Direction from reference:	ther Pit # 1
Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) Distance To Surface Water: (Horizontal distance to perennial	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Greater than 1000 feet (0 points) O RANKING SCORE (TOTAL POINTS): 0

Date Remediation Star	ted:	Date Completed:
Remediation Method: (Check all appropriate	Excavation	Approx. cubic yards
	Landfarmed	Insitu Bioremediation
	Other	
Remediation Location: (ie. landfarmed onsite, name and location of offsite facility)	Onsite Offsite	
General Description O	f Remedial Action: T	wo samples were taken from the
		elow origial bottom. Samples were
Sample was transported	placed into a clean	jar with a Teflon® closure. TPH analysis, lab resluts for TPH
was non-detect. Site	was rehab on 9/16/9	7.
	3, 2, 3, 3	
Ground Water Encounte	red: No <u>x</u> Yes _	Depth
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location: two center and south sidwa Sample depth: 3 feet	
locations and depths)		Below pie Bottom
	Sample date: 6/4/97	Sample time: 1230
	Sample Results:	
	Benzene (ppm)	
	Total BTEX (ppm)	
	Field headspace (ppm)
	TPH <u>non-dete</u>	<u>ct</u>
Ground Water Sample:	Yes No_	X . (If yes, attach sample results)
I HEREBY CERTIFY THAT BEST OF MY KNOWLEDGE	THE INFORMATION ABOV	/E IS TRUE AND COMPLETE TO THE
DATE 2/4/98		
SIGNATURE Shirky &.	PRINTED NAME AND TITLE	Shipty L. EBENT SHEAR Spec.



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Address:

Larry Trujillo

Company: On Site Technologies, Ltd. c/o Conoco

612 E. Murray Drive

City, State: Farmington, NM 87401

Project Name:

Conoco - Mudge Federal #2

Project Location:

LT

Mudge #2; Pit#2, Sample #1 Date:

4-Jun-97 Time:

12:30

11-Jun-97

6393

14832

4-1368

Sampled by: Analyzed by:

DC/HR

GRO Date:

6-Jun-97

Sample Matrix:

Soil

DRO Date:

6-Jun-97

Laboratory Analysis

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

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD DRO QC No.: 0548-STD

Date:

COC No.:

Job No.:

Sample No.:

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,351	1,227	9.6	15%
Diesel Range (C10 - C28)	ND	ppm	100	106	5.6	15%

Matrix Spike

1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
77	0.2	(00.100)		2001
76			15	20%
	1	Recovered Recovered	Recovered Recovered Limit 77 83 (80-120)	Recovered Recovered Limit RPD 77 83 (80-120) 8

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

Approved by: Date: 6/11/57

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Truences on Business of constant state for II on the



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 5-Jun-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-QC

Method Blank

		Units of
Analyte	Result	Measure
Average Amount of All Analytes In Blank	<1.0	ppb

Calibration Check

Analyte	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	19.8	1	15%
Toluene	ppb	20.0	20.5	3	15%
Ethylbenzene	ppb	20.0	20.9	4	15%
m,p-Xylene	ppb	40.0	39.5	1	15%
o-Xylene	ppb	20.0	20.8	4	15%

Matrix Spike

	1- Percent	2 - Percent			
Analyte	Recovered	Recovered	Limit	%RSD	Limit
Benzene	95	88	(39-150)	5	20%
Toluene	112	101	(46-148)	6	20%
Ethylbenzene	105	96	(32-160)	6	20%
m,p-Xylene	88	73	(35-145)	6	20%
o-Xylene	95	77	(35-145)	10	20%

Surrogate Recoveries

	\$1	S2
	Percent	Percent
Laboratory Identification	Recovered	Recovered
Limit Percent Recovery	(70-130)	
14831-6393	85	
	407	(ne)
	6/12/91	6/10/97

S1: Flourobenzene

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To be one of Supplementary participant of Transport and Transport

CHAIN OF CUSTODY RECORD

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

TECHNOLOGIES, LTD.

Purchas	Purchase Order No.:		Job No.			, . ,		1	Name				╠	Title	
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Method (Method of Shipment:							Rush		24-48 Hours	nrs	10 Working Days		Special Instructions:	
Authorized by:					Date										
		ture Must Accor	(Client Signature Must Accompany Request)												
			Dist	Distribution: White - On Site	te - On Site	Yellow - LAB	1	Pink - Sampler	1	Goldenrod - Client	Ę				