DISTRICT I P.O. Box 1980, Hobbs.NM 88240 D!STRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec. NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO

APTROPRIATE DISTRICT OFFICE DEPUTY OIL & GAS INSPECTOR OPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION P.O. Box 2088

SEP 1 0 1996

PIT REMEDIATION AND CLO

Santa Fe, New Mexico 87504-2088

Operator: UNOCAL			Tele	ohone: <u>'801 – 686 – 7</u>	7604
Address: P.O. Box 760 Moal	b, Utah 84532				
Facility Or: Rincon Unit 14! Well Name	9 Dakota				
Location: Unit or Qtr/Qtr Sec	N Sec 30	T 27N R 6W	County	Rio Arriba	
Pit Type: Separator	Deyhdrator X	Other			
Land Type: BLM X, Sta	ate, Fee	, Other			
Pit Location: Pit dir (Attach diagram)	mensions: Length 18'	, width	18'	, depth 3'-	-4'
Refer	ence: well head	, Other	Dehydrator		
Foota	age from reference: 15'				
Direct	tion from reference: 45	Degerees		East North	X
			X	of West South	
Depth To Ground Water:		Less than 50 feet		(20 points)	
(Vertical distance from contaminants to seasonal	graph materials and an artist of the second	50 feet to 99 feet Greater than 100 feet		(10 points)	^
high water elevation of	-			(0 points)	0
ground water)	DECEMBER) 4			
Wellhead Protection Area:	N DEC 2 0 1935	•	Yes	(20 points)	
Less than 200 feet from a priavate domestic water source, or; less than	_		No	(0 points)	0
1000 feet from all water sources)	DIL GOM. 277				
Distance To Surface Water:	Distr. 0	Less than 200 feet		(20 points)	
Horizontal distance to perennial		200 feet to 1000 feet		(10 points)	
akes, ponds, rivers, streams, creeks.		Greater than 1000 feet		(0 points)	0

Date Remediation	Started: 08/11/94	Date completed: 08/11/94
Remediation Method: (Check all appropriate	Excavation X	Approx. cubic yards 75
sections)	Landfarmed X	Insitu Bioremediaiton
	Other	
Remediation Location:	Onsite X Offsite	
(ie. landfarmed onsite, na offsite facility)	me and location of	
General Description o	f Remedial Action: Excavated so	il to a depth of 5.5'. Hit shale/rock. Refilled with clear soil.
	d tank with leak detection.	
1		
	was landfarmed on the Rincon	
		e actions and the Landfarm test results below.
1PH = 124.1 mg/kg	BTEX = Non detect with PID for	organic vapors.
Ground Water Encount	ered: No XYe	s Depth
Closure Sampling:	nple location Final sample @ st	nale/rock bottom - 5.5'
(if multiple samples, attach sample results		
	nple depth 5.5'	
San	nple date 08/11/94	Sample time
San	nple Results	
; ;	Benzene (ppm) .2	
	Total BTEX (ppm) 18.0	
	Field headspace (ppm) 77	7.2->2500
	TPH750_mg/kg	
Ground Water Sample:	Yes No X (if yes,	attach sample results)
I HEREBY CERTIF	Y THAT THE INFORMATION E AND BELIEF.	ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 11/30/95		
SIGNATURE P. A.	PRINTE AND TIT	D NAME Mike Tabet LE Staff HES Coordinator



OFF: (505) 325-8786

LAB: (505) 325-5667

Mike Tabet UNOCAL P.O. Box 850 Bloomfield, NM.

November 7, 1995

RE: Landfarm Closure of Phase I (1994 Operations) on the Rincon Lease

Mr. Tabet,

On Wednesday the November 26, 1995 landfarms constructed in 1994 were sampled. Five point composite samples were taken and analyzed using EPA Method 8015 for TPH (Total Petroleum Hydrocarbons). Laboratory results for the sampling are included with this report. Soils were checked using a PID (Photoinozation Detector) for organic vapor. All landfarms constructed in 1994 were nondetect for organic vapors. The following is a list of landfarms sampled during this sampling event.

Rincon 150, Rincon 123, Rincon 99, Rincon 99A, Rincon 29A, Rincon 78, Rincon 253, Rincon 149),

This closes the landfarms constructed in the summer of 1994. If there are any questions concerning this information or the status of the 1995 landfarming event please call'Jon Little with On Site Technologies, Ltd.

Sincerely,

Jon Little

Project Geologist

On Site Technologies, Ltd

file: 4-1188



OFF: (505) 325-8786

LAB: (505) 325-5667

Mike Tabet UNOCAL P.O. Box 850 Bloomfield, NM.

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Sincerely,

Jon Little

Project Geologist

On Site Technologies, Ltd

morale

file: 4-1188

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn:

Cindy Gray

Date:

1-Nov-95

Company: On Site Technologies, Ltd.

COC No.:

3612

Address:

657 W. Maple

Sample No.

8911

City, State: Farmington, NM 87401

Job No.

4-1122

Project Name: Project Location:

LAND = my in Unocal Rincon Lease Rincon 149 Deleven

25-Oct-95 Time:

12:31

Sampled by: Analyzed by: JL DERY/TICKIC DC

Date: Date:

1-Nov-95

Type of Sample:

Soil

Laboratory Analysis

Analyte		Result	Units of Measure	Detection Limit	Units of Measure
Gasoline Range (C5 - C9)		< 5.0	mg/kg	5.0	mg/kg
Diesel Range (C10 - C28)		57.1	mg/kg	5.0	mg/kg
	TOTAL	57.1	mg/kg		

Quality Assurance Report

GRO QC No.:

0429-STD

DRO QC No.:

0430-STD

Calibration Check

Analyte	Method Blank	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	< 1	ррт	1,351	1,406	4.1	15%
Diesel Range (C10 - C28)	< 5	ppm	2,000	2,143	7.1	15%

Matrix Spike

	1- Percent	2 - Percent			
Analyte	Recovered	Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	89	111	(70-130)	16	20%
Diesel Range (C10-C28)	93	88	(70-130)	4	20%

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

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499

- Technology Blending Industry with the Environment -



TOTAL PETROLEUM HYDROCARBONS

Attn:

Myke Lane

Date:

8/13/94

Company: On Site Technologies Ltd.

Lab ID:

1777

Address:

657 W. Maple

Sample No.

2461

City, State: Farmington, NM 87401

Job No.

4-1111

Project Name:

Unocal Corporation / Pit Closure

Project Location:

Rincon 149 Dehy. Pit

Sampled by:

MKL

Date: Date: 8/11/94 Time:

8/12/94

11:15

Analyzed by: Type of Sample: DLA Soil

Laboratory Analysis

Laboratory Identification	Samula Idaniffaction	Total Petroleum
Identification	Sample Identification	Hydrocarbons
	Unocal Corporation / Pit Closure	
2461-1777	Rincon 149 Dehy. Pit	750 <i>mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:



AROMATIC VOLATILE ORGANICS

Date:

Lab ID:

Job No.

Time:

Sample ID:

8/12/94

4-1111

11:15

1777

2461

Attn:

Myke Lane

Company: On site Technologies, Ltd.

Address:

657 W. Maple

City, State: Farmington, NM 87401

Project Name: Project Location:

Unocal Corporation / Pit Closure Rincon 149 Dehy Pit

Sampled by:

MKL DLA

(L Date:

Date: 8/11/94 Date: 8/12/94

Analyzed by: Sample Matrix:

Soil

Aromatic Volatile Organics

Component	**Measured Concentration ug/kg				
Benzene	232				
Toluene	4,692				
Ethylbenzene	973				
m,p-Xylene	10,407				
o-Xylene	2,091				
	TOTAL 18.394 ug/kg				

ND - Not Detectable

** - Method Detection Limit, 2 ug/kg

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

Approved by:

Date:

| Color |



QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 8/12/94

Internal QC No.:

0222-STD

Surrogate QC No.:

0223-STD

Reference Standard QC No.:

0355-STD

Method Blank

Analytes in Blank	Amount
Average Amount of All Analytes In Blank	< 1 ppb

Calibration Check

Calibration Standards	Units of Measure	*True Value	Analyzed Value	% Diff	Limit	
				70 5111		
Benzene	ppb	20	21	7	15%	
Toluene	ppb	20	20	2	15%	
Ethylbenzene	ppb	20	21	5	15%	
m,p-Xylene	ppb	40	42	6	15%	
o-Xylene	ppb	20	19	3	15%	

Spike Results

	1- Percent	2 - Percent				
Analyte	Recovered Recovered		Limit	%RSD	Limit	
Benzene	104	105	(39-150)	1	20%	
Toluene	95	103	(46-148)	6	20%	
Ethylbenzene	100	101	(32-160)	1	20%	
m,p-Xylene	99	104	(35-145)	4	20%	
o-Xylene	96	97	(35-145)	1	20%	

Surrogate Recoveries

Laboratory	S1	S2	S3
Identification	Percent	Percent	Percent
	Recovered	Recovered	Recovered
Limits	(70-130)		
2461-1772	98		

S1: Flourobenzene

FAX: (505) 327-1496 • 24 HR. – (505) 327-7105 • OFF.: (505) 325-8786

3005 NORTHRIDGE DRIVE • SUITE F • P. O. BOX 2606 • FARMINGTON, NEW MEXICO 87499

CHAIN OF CUS YODY RECORD

Date: 8 // /3/

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

QN SITE TECHNOLOGIES LIMITED

Remarks (matrix) Date/Time /// 10 Working Days | Sampling Location: Telefax No. ANALYSIS REQUESTED 5 Working Days Mailing Address City, State, Zip Telephone No. Company Name Received by: Received by: Received by: RESULTS TO Containers Number of **PRESERVATIVES** المراط Date JIII Date/Time // / COMPOSITE/ GRAB Date/Time Date/Time Dept. DATE/TIME SAMPLED Reference No.: (Client Signature Must Accompany Request) SAMPLE IDENTIFICATION City, State, Zip ر Relinquished by: Purchase Order No.: Company Special Instructions: 4 Method of Shipment: Address Name Relinquished by: Relinquished by: Authorized by: _ INVOICE SEND Sampler:

ON SITE TECHNOLOGIES, LTD.

TEST HOLE LOG and FIELD TESTING RESULTS

PROJECT:	Unccal		JOB#_	DATE: 7-19-94
	ATION: RINICO	149	CLIENT	
Dr :	Mu		SAMPL	ER: Myke i In
				D:
TEST HOL	E# 1,2,3	_LAB SAMPLE I	Ds	
DEPTH	SOIL TYPE	P.I.D. FIELD SCREENING	TPH EPA 418.1	OTHER REMARKS
2/2	sithy to figi. Sitts to clay	2500		Pit damp on pottom
<u>3</u>	,,	25.00		
3′	,,	2500		
- <u> </u>				
composite	sample a	en fors	TPH.	
Rock @ :	sample lad	eet.		
SITE SKET	CH WEAT	HER SAMU	APF	PROX.TEMP. 80° F
		^		
		Medica Plan	03	9
		Coll Keed	<u></u>	
	(50:	5) 325-8786	FAX (505) 327-1	496

3005 NORTHRIDGE DRIVE, SUITE F P.O.BOX 2606 FARMINGTON, NEW MEXICO 87499

	DEHYI 2.5'		
2 A-1111 Verm P.T.			
UNOCAL EN CLOSSAGES 4-1111 RINGEN 149 DEM PIT EV 11/94 COUNTS 15 N 45 W OF OVM	165.5 77.2 265 7280 364.5 1901 465 2467 565.5 7260	1PH.	