DISTRICT I P.O. Box 1980, Hobbs.NM 88240 DISTRICT 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 APPROPRIATE

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 27-1

Santa Fe, New Mexico 87504-2088

(Revised 37/91)

PIT REMEDIATION AND CLOSU

Operator: UNOCAL		Section 1997	Telephone: '801 – 686 – 7604
Address: P.O. Box 760	Moab, Utah 84532		
Facility Or: Rincon Un Well Name	it 149 Dakota		
Location: Unit or Qtr/Qtr Se	c N Sec 30	T 27N R 6W County	Rio Arriba
Pit Type: Separator	Deyhdrator	Other Tank	
Land Type: BLM X,	State, Fee	_, Other	
(Attach diagram)	Pit dimensions: Length 25'	, width 26	, depth 5'
F	Reference: well head Footage from reference: 15' Direction from reference: 185	Other Tank Degerees X	East North of West South X
Depth To Ground Water:		Less than 50 feet	(20
(Vertical distance from	and the second s	50 feet to 99 feet	(20 points)
contaminants to seasonal high water elevation of		Greater than 100 feet	(10 points) (0 points) <u>0</u>
Wellhead Protection Area: (Less than 200 feet from a priavate domestic water source, or; less than 1000 feet from all water sources)	DEC 2 0 1805		Yes (20 points) No (0 points) <u>0</u>
Distance To Surface Wate (Horizontal distance to perennial akes, ponds, rivers, streams, creeks, rrigation canals and ditches)		Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points) <u>0</u>
		RANKING SCORE (TOTAL POIN	ITS) : 0

Date Remediation	Started: 09/2	22/94	Date comp	oleted: 09/22/94
Remediation Method (Check all appropriate	: Excavation	<u>X</u>	Approx. cubic yards	380
sections)	Landfarmed	X	Insitu Bioremediaiton	
	Other			
				
Remediation Location	n: Onsite	X Offsite		
(ie. landfarmed onsite. offsite facility)	name and location	of		
General Description	of Remedial A	ction: Excavated soil	to a depth of 10' H	it shale/rock. Refilled with clean soil.
Installed double wal			10 d dopar 01 10 . 11	it shale/rock. Helliled with clean soil.
The contaminated s	oil was landfarn	ned on the Rincon U	nit 149 DK/MV loca	tion.
A pit closure approv	al is requested	pased on the above	actions and the Lar	ndfarm test results below.
TPH = 124.1 mg/kg	BTEX = Non	detect with PID for o	organic vapors.	
Ground Water Encou	ntered:	No X Yes	Depth	
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location	Final sample @ sha		0'
locations and depths)	Sample date 09/2	3/94	Sample time	
l S	Sample Results			
	Benzene	(ppm) 1.6		
1		EX (ppm) 42.1	-	
		dspace (ppm) 224		
	TPH	37,500 ppm		
Ground Water Sampl	e: Yes	No X (if yes,	attach sample resul	ts)
I HEREBY CERT	IFY THAT TH	INFORMATION EF.	ABOVE IS TRUE	AND COMPLETE TO THE BEST
DATE 11/30/95				
SIGNATURE	. Delist	PRINTED AND TITL		t 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

1-Nov-95

3612

8911

4-1122

TOTAL PETROLEUM HYDROCARBONS

Attn:

Cindy Gray

Company: On Site Technologies, Ltd.

Address: 657 W. Maple

City, State: Farmington, NM 87401

Lan orange

Project Location:

Project Name:

Unocal Rincon Lease Rincon 149 DI 4 /2 3

Sampled by: Analyzed by:

DC

Date: Date:

25-Oct-95 Time: 1-Nov-95

DRHY

Date:

COC No.:

Sample No.

Job No.

12:31

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)	T	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	ррт	2,000	2,143	7.1	15%

Matrix Spike

Analyte	1- Percent Recovered	2 - Percent 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:

Mike Tabet

Date:

7/21/94

Company: Unocal Corporation

Lab ID: Sample No. 1668 2031

Address: P.O. Box 760 City, State: Moab, UT 84532

Job No.

4-1107

Project Name:

Unocal Corporation Pit Assessments

Project Location:

Rincon 149 Tank Pit; 3ft. Composite

Sampled by: Analyzed by: JL/ML DC

Date: Date: 7/19/94 Time: 7/20/94

NR

Type of Sample:

Soil

Laboratory Analysis

Laboratory		Total Petroleum
Identification	Sample Identification	Hydrocarbons
	Unocal Corporation Pit Assessments	
<i>2031-1668</i>	Rincon 149 Tank Pit; 3ft. Composite	30,750 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Date:

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

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AROMATIC VOLATILE ORGANICS

Attn:

Jon Little

Company: On site Technologies, Ltd.

Date:

9/24/94

Lab ID:

2130

Address:

657 W. Maple

Sample ID:

3210

City, State: Farmington, NM 87401

Job No.

4-1122

Project Name:

Unocal Corporation / Pit Remediations

Date:

Project Location: Sampled by:

Rincon 149 Tank Pit 10' deep JL

Date:

9/23/94 9/24/94

Time:

Analyzed by: Sample Matrix:

DLA

Soil

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
Benzene	1,593	0.2
Toluene	12,569	
Ethylbenzene	2,116	0.2
m,p-Xylene	22,226	0.2
o-Xylene	3,603	
	TOTAL 42,107 ug/kg	

ND - Not Detectable

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

Approved by:



TOTAL PETROLEUM HYDROCARBONS

Attn: Jon Little

Date:

9/24/94

Company: On Site Technologies, Ltd.

Lab ID:

2130

Address:

Sample No.

3210

City, State: Farmington, NM 87401

657 W. Maple

Job No.

4-1122

Project Name:

Unocal Corporation / Pit Remediations

Project Location:

Rincon 149 Tank Pit 10' deep

Sampled by:

JL

Date: Date:

9/23/94 Time:

Analyzed by: Type of Sample: DA Soil

9/24/94

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
	Unocal Corporation / Pit Remediations	
3210-2130	Rincon 149 Tank Pit 10' deep	37,500 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

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QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 9/24/94

Internal QC No.:

0222-STD

Surrogate QC No.:

0223-STD

Reference Standard QC No.:

0355-STD

Method Blank

Analytes in Blank	
The state of the s	Amount
Average Amount of All Analytes In Blank	<0.1 ppb

Calibration Check

Calibration Standards	Units of Measure	°True Value	Analyzed Value	% Diff	Limit
Benzene					
Toluene	ppb	20	20	2	15%
	ppb	20	19		
thylbenzene	ppb	20	18		15%
n,p-Xylene	ppb	40		!	15%
o-Xylene			36	10	15%
	ppb	20	18	11	15%

Spike Results

Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	100	99	(20.450)		
Toluene	99	95	(39-150)	1	20%
Ethylbenzene	99	106	(46-148)	3	20%
n,p-Xylene	96	95	(35-145)	5	20%
o-Xylene	97	100	(35-145)	2	20% 20%

Surrogate Recoveries

Laboratory Identification	S1 Percent	S2 Percent	S3 Percent
	Recovered	Recovered	Recovered
Limits	(70-130)		7100076760
3210-2130			
3210-2130	98		
			

S1: Flourobenzene



TOTAL PETROLEUM HYDROCARBONS

Attn:

Mike Tabet

Company: Unocal Corporation

Address:

P.O. Box 760

City, State: Moab, UT 84532

Date:

7/21/94

Lab ID:

1668

Sample No.

2033

Job No.

4-1107

Project Name:

Unocal Corporation Pit Assessments

Project Location: Sampled by:

Rincon 149 Dehy. Pit; 3ft. Composite JL/ML

Date:

7/19/94 Time:

NR

Analyzed by:

DC

Date:

7/20/94

Type of Sample:

Soil

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
2033-1668	Unocal Corporation Pit Assessments	Trydrocarbons
	Rincon 149 Dehy. Pit; 3ft. Composite	11,471 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:

ON SITE TECHNOLOGIES, LTD.

TEST HOLE LOG and FIELD TESTING RESULTS

			JOB#_	DATE: 7-
SITE LOC	ATION: RINCO	149	CLIEN	[:
mx De			SAMPI	ER: Jan Myke
)D:
TEST HOL	E# 1,2,3			
DEPTH	SOIL TYPE	P.I.D. FIELD SCREENING	TPH EPA 418.1	OTHER REMARKS
3 ,	soll sandy	1789		
3	11	955		6-12" HO in Pi+
3'	1.	2500		
				
Composit	sample j	or T.P.H.	Taken	wing P.I.D. SA
Composit Shallow s	sample p	or T.P.H.	Taken	wing P.I.D. SA
Composit	sample of	or T.P.H.	Taken	wing P.I.D. SA
Composit				ROX.TEMP. 80°F
			APF Sc.	ROX.TEMP. <u>80</u> %ド

(505) 325-8786 FAX (505) 327-1496

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