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

DEPUTY OIL & GAS INSPECTORIZET OFFICE AND 1 COPY TO

SEP 11.0 1996

OIL CONSERVATION DIVISION SEP 11

(Revised 39/94)

SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Operator: UNOCAL	Telephone: '801 -686 - 7604
Address: P.O. Box 760 Moab, Utah 84532	
Facility Or: Rincon Unit 123 Mesa Verde Well Name	
Location: Unit or Qtr/Qtr Sec M Sec 13	T 27N R 7W County Rio Arriba
Pit Type: Separator Deyhdrator	Other Dehydrator/Separator/Tank
Land Type: BLM X , State, Fee	, Other
Pit Location: Pit dimensions: Length 21 (Attach diagram) Reference: well head	, ори с
Footage from reference: 15 Direction from reference: 90	
Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
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 1995	Yes (20 points) No (0 points) 7
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks. irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
	RANKING SCORE (TOTAL POINTS):

Date Remediatio	n Started: 09/21/94 Date completed: 09/21/94
Remediation Metho	od: Excavation X Approx. cubic yards 160
(Check all appropriate sections)	Landfarmed X Insitu Bioramediaiton
	Other
Remediation Locat	ion: Onsite X Offsite
offsite facility)	
	on of Remedial Action: Contaminated soil was removed to a depth of 13' where rock was an soil was re-filled into the pits. A double walled steel tank with leak detection was installed.
The contaminated	soil was landfarmed on the Rincon Unit 123 MV location.
A PIT CLOSURE A	APPROVAL IS REQUESTED based onthe attached test results from the landfarm.
TPH = 53.4 mg/l	cg BTEX = Non-detect with PID for organic vapors.
Ground Water Enc	Duntered: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location Bottom of pit
attach sample results and diagram of sample locations and depths)	Sample depth 13'
1 /	Sample date 09/21/94 Sample time
	Sample Results
	Benzene (ppm) 1.4
	Total BTEX (ppm) 128.9
	Field headspace (ppm) >2500
	TPH 3,600 ppm
Ground Water Sam	
HEREBY CEF	TIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BESTEDGE AND BELIEF.
DATE 11/20/95	
SIGNATURE 77	AND TITLE Staff HES Coordinator





OFF: (505) 325-8786

LAB: (505) 325-5667

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

November 7, 1995

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.

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

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

In Stale

file: 4-1188



OFF: (505) 325-8786

LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn:

Cindy Gray

Company: On Site Technologies, Ltd.

Address:

657 W. Maple

City, State: Farmington, NM 87401

Unocal Rincon Lease

Project Name: Project Location:

Type of Sample:

Sampled by:

Analyzed by:

JL LANDFARM

Rincon 123

DC Soil Date:

1-Nov-95

COC No.:

3612

Sample No.

8913

Job No.

4-1122

Date: Date:

25-Oct-95 Time:

1-Nov-95

13:58

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)		53.4	mg/kg	5.0	mg/kg
	TOTAL	53.4	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:

Date:

P. O. BOX 2606 • FARMINGTON, NM 87499

- Technology Blending Industry with the Environment -



TOTAL PETROLEUM HYDROCARBONS

Attn:

Mike Tabet

Company: Unocal Corporation

Address:

P.O. Box 760

City, State: Moab, UT 84532

Lab ID: Sample No.

Date:

7/21/94 1668

2029

Job No.

4-1107

Project Name:

Unocal Corporation Pit Assessments

Project Location:

Rincon 123; 3ft. Composite JL/ML

Date:

Date:

7/19/94 Time:

NR

Sampled by: Analyzed by:

DC Soil 7/20/94

Type of Sample:

Laboratory Analysis

Laboratory		Total Petroleum
Identification	Sample Identification	Hydrocarbons
	Unocal Corporation Pit Assessments	. 1
2029-1668	Rincon 123; 3ft. Composite	23,284 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:



TOTAL PETROLEUM HYDROCARBONS

Attn:

Jon Little

Company: On Site Technologies, Ltd.

Address: 657 W. Maple

City, State: Farmington, NM 87401

Date:

9/22/94

Lab ID:

2123

Sample No. Job No.

3172 4-1122

Project Name: Project Location:

Type of Sample:

Unocal Corporation / Pit Remediations
Rincon 123 @ 13' deep center of old pit

KINC

JL DA Date: Date: 9/21/94 Time:

Sampled by: Analyzed by:

Soil

9/22/94

Laboratory Analysis

Laboratory		Total Petroleum
Identification	Sample Identification	Hydrocarbons
	Unocal Corporation / Pit Remediations	
3172-2123	Rincon 123 @ 13' deep center of old pit	3,600 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:

9/23/94



AROMATIC VOLATILE ORGANICS

Attn:

Jon Little

Company: On Site Technologies, Ltd.

Lab ID:

9/23/94

Address:

657 W. Maple

Sample ID:

2123

City, State: Farmington, NM 87401

Job No.

Date:

3172 4-1122

Project Name:

Unocal Corporation / Pit Remediations

Project Location: Sampled by:

JL

Date: Date:

Rincon 123 @ 13' deep center of old pit 9/21/94 9/22/94

Time:

Analyzed by: Sample Matrix: DLA

Soil

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/k	
Benzene	1,375	0.2	
Toluene	35,982	0.2	
Ethylbenzene	7,927	0.2	
m,p-Xylene	66,145		
o-Xylene	17,536	0.2 	
	TOTAL 128,964 ug/kg	0,2	

ND - Not Detectable

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

Approved by: Date:



QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 9/22/94

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	<0.1 ppb

Calibration Check

Calibration Standards	Units of Measure	*True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20	20	2	15%
Toluene	ppb	20	20	2	15%
Ethylbenzene	ppb	20	21	3	15%
m,p-Xylene	ppb	40	40	1	15%
o-Xylene	ppb	20	20	2	15%

Spike Results

	1- Percent	2 - Percent			
Analyte	Recovered	Recovered	Limit	%RSD	Limit
Benzene	100	99	(39-150)	1	200/
Toluene	103	100	(46-148)	3	20% 20%
Ethylbenzene	101	100	(32-160)	1	20%
m,p-Xylene	101	101	(35-145)	0	20%
o-Xylene	99	98	(35-145)	0	20%

Surrogate Recoveries

Laboratory	S1	S2	S3	
Identification	Percent	Percent	Percent	
	Recovered	Recovered	Recovered	
Limits	(70-130)			
3172-2123	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, ODY RECORD

ON SITE

TECHNOLOGIES, LTD.

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

Date:

of

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ON SITE TECHNOLOGIES, LTD.

TEST HOLE LOG and FIELD TESTING RESULTS

				ER:
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TEST HO	LE# 1,2,3 .			
DEPTH	SOIL TYPE			
JEF III	1	P.I.D. FIELD SCREENING	TPH EPA 418.1	OTHER REMARKS
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3005 NORTHRIDGE DRIVE, SUITE F P.O.BOX 2606 FARMINGTON, NEW MEXICO 87499