



KAPREALIAN ENGINEERING  
INCORPORATED

KEI-P90-0102.R11  
November 7, 1994

Unocal Corporation  
2000 Crow Canyon Place, Suite 400  
P.O. Box 5155  
San Ramon, California 94583

FILE #	2656	SS	<input checked="" type="checkbox"/>	BP	<input type="checkbox"/>
RPT	<input checked="" type="checkbox"/>	QM	<input type="checkbox"/>	TRANSMITTAL	<input type="checkbox"/>
1	2	3	4	5	6

Attention: Mr. David J. Camille

RE: Report of Destruction of Monitoring Wells  
Unocal Service Station #2656  
4251 E. 14th Street  
Oakland, California

Dear Mr. Camille:

This report documents the destruction of three vapor extraction and six monitoring wells at the subject site, in accordance with Kaprealian Engineering, Inc's. (KEI) work plan/proposal (KEI-P90-0102.P8) dated September 13, 1994. The former vapor extraction wells (VE1 through VE3) extended to total depths ranging from 11 to 12.5 feet below grade, and the former monitoring wells (MW1 through MW6) extended to total depths ranging from 49 to 51 feet below grade. The location of these former wells are shown on the attached Figure 1. These wells were proposed to be destroyed as case closure has been granted for the subject site by the Alameda County Health Care Services (ACHCS) Agency. Site background information and a summary of our most recent field activities are included in KEI's report (KEI-P90-0102.QR8) dated September 27, 1993, and the MPDS Services, Inc. report (MPDS-UN2656-01) dated January 7, 1994.

On October 21, 1994, the three existing vapor extraction wells (VE1 through VE3) were destroyed by fully drilling out the existing well seals, well casings, and filter pack sand materials. The boreholes were then fully sealed with neat cement grout that was placed from the bottom of each boring to the surface in one continuous pour.

On the same date, the six existing monitoring wells (MW1 through MW6) were destroyed by pumping neat cement grout into the well casings. The grout was pumped under pressure from the total depth of each well to the surface by the use of a 1.5-inch diameter PVC tremie pipe plumbed with a flexible hose to a grout pump.

All soil materials generated during the well destruction operations were stored on-site and were covered with visqueen pending analysis and proper disposal.

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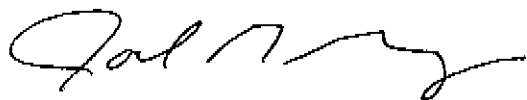
DISTRIBUTION

A copy of this report should be submitted to the ACHCS, and to the Regional Water Quality Control Board, San Francisco Bay Region.

If you have any questions regarding this report, please do not hesitate to call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.



Joel G. Greger, C.E.G.  
Senior Engineering Geologist

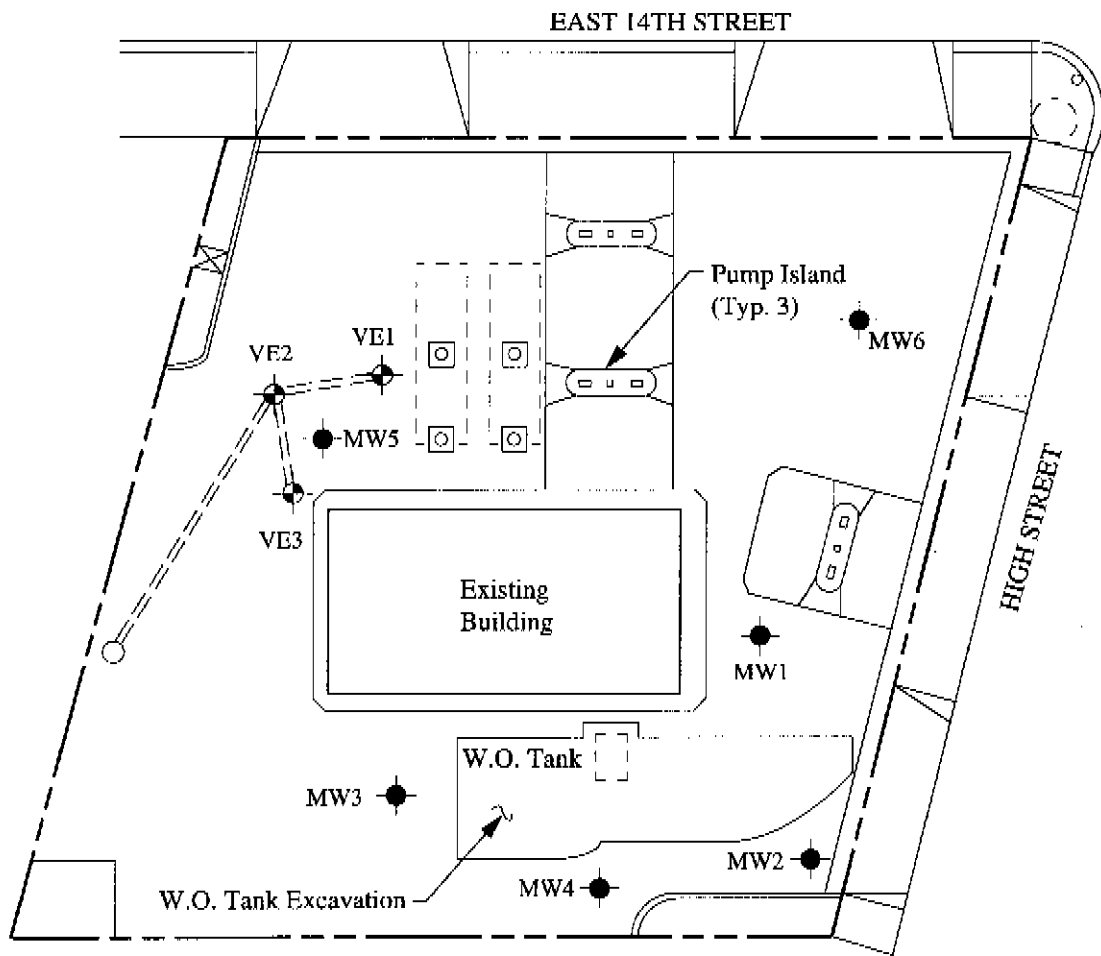
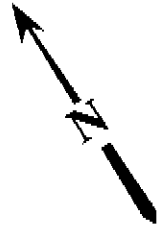
License No. EG 1633  
Exp. Date 8/31/96



Timothy R. Ross  
General Manager

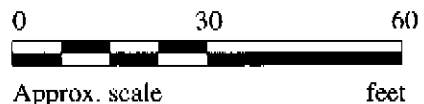
/jad

Attachment: Figure 1



**LEGEND**

- Monitoring well (Destroyed on 10/21/94)
- ⊕ Vapor extraction well (Destroyed on 10/21/94)
- Vapor extraction subsurface conduit



**LOCATION MAP**



**UNOCAL SERVICE STATION #2656  
4251 EAST 14TH STREET  
OAKLAND, CA LIFORNIA**

**FIGURE  
1**

# UNOCAL 76

- 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
- 18939 120th Ave., N.E., Suite 101 • Bellevue, WA 98011 • (206) 481-9200
- 819 Stinker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
- East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
- 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9800
- 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9900

Company Name: AMERICAN WILKINSON INC. Project Name: 4251 E. 14TH STREET, CHILANO  
 Address: 2401 SHAWNEE DRIVE, WACO UNOCAL Project Manager: DAVID J. CHAMBERLAIN  
 City: TEXAS State: TX Zip Code: 76798 Release #: \_\_\_\_\_  
 Telephone: (512) 662-5700 FAX #: (512) 657-0000 Site #: MINERAL S/S # 2656  
 Report To: ALC Sampler: GARY TEJIKIAN OC Data:  Level D (Standard)  Level C  Level B  Level A  
 Turnaround  10 Work Days  5 Work Days  3 Work Days  2 Work Days  1 Work Day  2-8 Hours  Drinking Water  
 Time:  2 Work Days  1 Work Day  2-8 Hours  Waste Water  
 CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure  Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Comments
1. <u>COMP S1</u>	<u>10/21/94</u>	<u>SOIL</u>	<u>4</u>	<u>TRASH</u>	<u>4101405 A-D</u>	<u>TRASH/BTEX LEAD RCT</u>
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

Relinquished By: Andy Gary Tejirian Date: 10/21/94 Time: 6:20 pm Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: Madison Casare Date: 10/21/94 Time: 6:20 pm  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Were Samples Received in Good Condition?  Yes  No Samples on Ice?  Yes  No Method of Shipment: \_\_\_\_\_ Page \_\_\_\_ of \_\_\_\_

I have completed upon receipt of report: \_\_\_\_\_  
 I have the analyses requested on the Chain of Custody reported?  Yes  No If no, what analyses are still needed? \_\_\_\_\_  
 I have the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time? \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_