



GeoStrategies Inc.

RECEIVED  
2:27 pm, Mar 26, 2009  
Alameda County  
Environmental Health

July 26, 1993

UNOCAL Corporation  
1201 West 5th Street  
Los Angeles, California 90051

FILE # 5325 SS X BP  
RPT     QM     TRANSMITTAL  
1     2     3     4     5     6 X

Attn: Mr. E. H. Everett

Re: Site Facility Status  
UNOCAL Service Station No. 5325  
3220 Lakeshore Avenue  
Oakland, California

Mr. Everett:

This letter provides a status summary of the remedial activities that have taken place at the above referenced location.

In June 1990, GeoStrategies Inc. (GSI) observed the replacement of two 10,000-gallon gasoline with two 12,000-gallon gasoline USTs. The 120-gallon waste oil was replaced by a 550-gallon waste oil UST. Approximately 850 cubic yards of soil was excavated and removed.

In September 1990, GSI installed groundwater monitoring wells U-1, U-2 and U-3.

Currently, there are three groundwater monitoring wells (U-1, U-2 and U-3) at this site. On February 22, 1993, Gettler-Ryan Inc. collected groundwater samples from wells U-1, U-2 and U-3. Wells U-1 and U-2 contained benzene concentrations that exceeded the Maximum Contaminant Level (MCL). Well U-3 did not contain detectable concentrations of Benzene, Toluene, Ethylbenzene and Xylenes (BTEX). Attached is a copy of the latest Quarterly Monitoring Report, dated June 18, 1993.

:814tax,ltr

**GeoStrategies Inc.**

UNOCAL Corporation  
July 26, 1993  
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We anticipate that the quarterly groundwater monitoring and sampling will continue for approximately five years from this date. The estimated cost associated with remedial activities and quarterly groundwater sampling upon the project's completion is \$150,000.

If you have questions or comments, please call me at (510)352-4800 ext. 284.

GeoStrategies Inc. by,

  
Cliff M. Garratt  
Project Manager

cc: Mr. Al Dew - Los Angeles, W/O Assessment Report  
Mr. Adadu Yemane - San Ramon, W/O Assessment Report

NO-FILE  
XC-TJT  
RLM  
RLF  
DHH  
CCR

# UNOCAL 76

San Ramon, California  
September 4, 1990

C. R. WARNOCK

28937S X

ENVIRONMENTAL CLEANUP PC-03-448  
UNOCAL SERVICE STATION NO. 5325  
3220 LAKESHORE AVENUE  
OAKLAND, CALIFORNIA

FILE  
130 L

During a recent tank replacement job at the subject facility, extensive soil contamination was encountered in the area surrounding the product tank pit. The contamination appeared to be the result of past overflow of the tank, since recent inventory reconciliations were within acceptable limits. The tank pit was over-excavated as required by the Alameda County Health Agency (ACHA). Confirmatory samples collected from the limits of the excavation indicate that the majority of the contaminated soil was effectively removed.

Approximately 1150 tons of soil was excavated from the pit. Of this total, 750 tons required disposal at a Class I landfill because of the hazardous (>1000 ppm) levels of contamination detected in samples collected from the stockpile. The remaining 400 tons of contaminated soil were aerated on site and disposed at a Class III landfill.

In accordance with ACHA and CRWQCB regulations, a groundwater contamination assessment will be conducted to determine if there has been any impact to groundwater. The need for any further work will be assessed following completion of this initial investigation.

TENANCY:	FEE OWNED
FINANCIAL RESPONSIBILITY:	UNOCAL
REMEDIAL ACTION:	CONTAMINATED SOIL WAS OVER-EXCAVATED FROM THE TANK PIT. SOIL WAS DISPOSED AT BOTH CLASS I AND CLASS III LANDFILLS, DEPENDING ON THE LEVELS OF CONTAMINATION PRESENT. A GROUNDWATER CONTAMINATION ASSESSMENT WILL BE CONDUCTED AS REQUIRED BY THE LOCAL REGULATORY AGENCIES.

MARKETING

FEB 5 - 1991

STATION FILES

CHRISTINA MENDOZA

DEC 20 1990

ENVIRONMENTAL EXPENDITURES TO DATE:

Contractor Extras

Additional excavation of soil; additional backfill; additional paving and concrete required due to over-excavation; aeration of contaminated soil; loading soil for disposal \$43,000.00

Soil Disposal/Transportation

Approximately 750 tons soil to Class I facility (750 tons @ \$140/ton) \$105,000.00

Approximately 400 tons soil to Class III facility (400 tons @ \$20/ton) \$8,000.00

Consultant Costs

Coordination with regulatory agencies; collecting and analyzing samples from excavation and from stockpile; coordinating stockpile disposal; preparation of technical reports; preparation of work plan prior to tank replacement \$21,000.00

Sub-Total \$177,000.00

ADDITIONAL ANTICIPATED EXPENDITURES

Consultant Costs

Drill and install three monitoring wells; develop and sample wells and prepare report summarizing investigation; sample/analyze wells quarterly for one year \$30,000.00

Total \$207,000.00

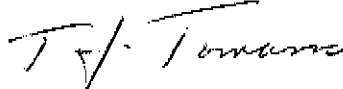
MARKETING

FEB 5 - 1991

GENERAL FILES

C. R. Warnock  
Environmental Cleanup PC-03-448  
September 4, 1990  
Page three

Approval in the amount of \$207,000 is requested to cover the expenses to date and proceed with the groundwater investigation as required by the RWQCB and the ACHA.

  
T. J. TOMASSO

TJT/RLF/REB

APPROVED:



F. L. WALKER

cc: S. E. Hayes  
D. H. Heil  
C. C. Row  
T. R. Ross  
R. L. Folda  
J. E. Mason  
E. E. Adams

MARKETING  
FEB 5 - 1991  
CITY OF LOS ANGELES

COMPLETE THE FOLLOWING: ENTER CODE NUMBER FOR MOST APPROPRIATE EXPLANATION IN BOX AT THE RIGHT OF EACH SECTION. (ENTER ONE CODE FOR EACH SECTION)

**TYPE OF PROPERTY / FACILITY**

- 101 = MINING-FACILITY
- 102 = REFINERY
- 103 = BULK PLANT
- 104 = CHEMICAL PLANT
- 105 = TERMINAL
- 107 = FERTILIZER PLANT
- 108 = SERVICE STATION

- 109 = AUTO CUSTODY STOP
- 110 = POLYMER FACILITY
- 111 = AIRCRAFT
- 112 = GAS PLANT
- 113 = ONSHORE LEASE
- 114 = OFFSHORE PLATFORM
- 116 = PIPELINE PUMP STATION

- 117 = LUBE PLANT
- 118 = ORE PROCESSING FACILITY
- 120 = PIPELINE
- 121 = RESEARCH CENTER
- 122 = OFFICE BUILDING
- 123 = FIELD STORAGE YARD (O&G)
- 124 = WAREHOUSE

- 125 = OFFSITE
- 127 = UNOCAL CENTER
- 143 = BARGE
- 199 = OTHER

108

**TYPE OF INCIDENT**

- 201 = FIRE/EXPLOSION
- 202 = LIGHTNING
- 203 = WINDSTORM
- 204 = VEHICLE (3RD PARTY)
- 205 = PIER DAMAGE BY VESSEL
- 206 = MACHINERY FAILURE
- 207 = ELECTRICAL

- 208 = PRODUCT MISDELIVERY
- 209 = CONTAMINATION
- 210 = SPILL—OUTSIDE FACILITY
- 211 = SPILL—INSIDE FACILITY
- 212 = ENVIRONMENTAL EMISSION
- 213 = PROPERTY DAMAGE-OTHER
- 214 = WATER QUALITY CONTROL

- 215 = POTENTIAL FIRE
- 220 = EMPLOYEE FIDELITY
- 221 = THEFT
- 222 = ARMED ROBBERY
- 223 = FLOOD
- 224 = EQUIP. DAMAGE/LOSS
- 225 = ICE/SNOW/RAIN

- 227 = LEAK: LINE, TANK, ETC.
- 228 = WELL BLOWOUT
- 299 = OTHER

209

**PROBABLE CAUSE OF INCIDENT**

- 301 = DESIGN
- 302 = INSTRUMENTATION
- 303 = PROCEDURE-NOT FOLLOWED
- 304 = PROCEDURE—INADEQUATE
- 305 = PROCEDURE - NOT AVAIL. ABLE
- 306 = MECHANICAL MAINT.
- 307 = ELECTRICAL MAINT.
- 308 = INSTRUMENT MAINT.
- 309 = HOUSEKEEPING

- 310 = CORROSION
- 311 = PIPE/WELDING FAILURE
- 312 = UTILITY FAILURE
- 313 = NATURAL DISASTER
- 314 = CAUSE BEYOND CONTROL
- 315 = HUMAN ERROR
- 316 = ELECT. SHORT CIRCUIT
- 317 = AUTO CONTROL FAILURE
- 318 = BEARING/SEAL FAILURE

- 319 = DAMAGE BY OTHERS
- 320 = FREEZING/ICE/SNOW
- 321 = WEATHER
- 322 = LACK OF CONTAINMENT
- 326 = POLLUTION CONTROL EQUIPMENT FAILURE
- 327 = MACH./EQUIP. MALFUNCTION
- 328 = CRIMINAL ACT
- 329 = SUSPECTED DRUG/ALCOHOL ABUSE

- 330 = ARSON
- 331 = VANDALISM
- 332 = SABOTAGE
- 399 = OTHER

past overfill of tanks

399

**SPECIFIC FACILITY COMPONENT/EQUIPMENT INITIALLY INVOLVED**

- 401 = TANKAGE
- 402 = BUILDING
- 403 = PROCESS UNIT
- 404 = PIPELINE
- 405 = TRUCK LOADING RACK
- 406 = AMMONIA MFG. MACH. & EQUIP.
- 407 = UREA MFG. MACH. & EQUIP.
- 408 = WASTE DISPOSAL FACILITY
- 409 = PUMPING EQUIP.
- 410 = TANK CAR LOADING RACK
- 411 = TANKER/BARGE LOADING
- 412 = TANK TRUCK TRAILER
- 413 = WAREHOUSE

- 414 = TANK CAR
- 415 = VEHICLE
- 416 = AIRCRAFT REFUELER
- 417 = SERV. STA. PUMP
- 418 = SERV. STA. CANOPY
- 419 = SIGNS
- 420 = ROTATING/MOVING EQUIP.
- 421 = AIRCRAFT
- 422 = WELL
- 423 = OIL TREATER
- 424 = COMPRESSOR
- 425 = DRILLING RIG
- 426 = AUTO CUSTODY

- 427 = FERTILIZER MACH. & EQUIP.
- 428 = LABORATORY
- 429 = SEPARATOR
- 430 = PIER/DOCK/WHARF
- 431 = HOT MELT MFG. MACH. & EQUIP.
- 432 = POLYMER MFG. MACH. & EQUIP.
- 433 = CRANE
- 434 = OFFICE EQUIP.
- 435 = LIGHTS & LIGHT POLES
- 436 = SER. STA. EQUIP. (NOT PUMPS)
- 437 = TBA/MONEY
- 438 = PARKING AREAS, DRIVEWAYS ETC.
- 439 = PERSONAL PROPERTY

- 440 = EQUIPMENT/MATERIALS/TOOLS
- 441 = TANK ROOFS: SUNK/HUNG UP
- 442 = SCRUBBER
- 443 = FENCES, SHRUBBERY, ETC.
- 444 = VAPOR RECOVERY UNIT
- 445 = BAGHOUSE
- 448 = CONTRACT CARRIER
- 449 = TOTAL LOSS OF FACILITY
- 499 = OTHER

401

**PHASE OF OPERATIONS AT TIME OF INCIDENT**

- 501 = TURNAROUND
- 502 = NORMAL OPERATION
- 503 = SHUTTING DOWN
- 504 = MAINT. REPAIRS
- 505 = LOADING/FILLING

- 506 = UNLOADING
- 507 = CLOSED/IDLE
- 508 = BLENDING
- 509 = CONSTRUCTION
- 510 = DRILLING/WORKOVER

- 511 = TEMPORARY OPERATION
- 512 = WATER DRAW-OFF
- 514 = START-UP
- 515 = UNATTENDED
- 517 = TESTING

- 599 = OTHER

509

**COMMODITY OR CONTAMINANT INVOLVED**

- 601 = NOT APPLICABLE
- 602 = DRUOF/CONDENSATE
- 603 = LPG/PROPANE
- 604 = GASOLINE
- 605 = JET FUEL
- 606 = KEROSENE
- 607 = HEATING OIL/DIESEL
- 608 = LNG
- 609 = TUBES

- 610 = NATURAL GAS
- 611 = FERTILIZER
- 612 = WELL BRINE
- 613 = SOLVENTS
- 614 = CHEMICALS
- 615 = HYDROGEN
- 616 = CAUSTIC
- 617 = MEHCIBIDES
- 618 = PESTICIDES

- 619 = HYDROGEN SULPHIDE
- 620 = REFORMATE
- 621 = FEEDSTOCK
- 622 = VAPORS
- 625 = WAX
- 626 = GREASE
- 628 = HAZARDOUS WASTE
- 629 = WATER/WASTE WATER
- 632 = SMOKE EMISSIONS

- 634 = DUST
- 635 = TAILINGS
- 636 = ORES
- 650 = AMMONIA
- 651 = UREA
- 699 = OTHER

604

**PROBABLE SOURCE OF COMMODITY OR CONTAMINANT INVOLVED**

- 701 = NOT APPLICABLE
- 702 = EQUIPMENT FAILURE OR DAMAGE
- 703 = EQUIPMENT LEAKAGE

- 704 = SAFETY DEVICE (F.G. RELIEF VALVE)
- 705 = HUMAN ERROR
- 706 = VANDALISM, SABOTAGE

- 707 = IMPROPER USE OF HYDROCARBONS
- 708 = OUTSIDE SOURCE
- 709 = UNKNOWN

- OTHER

past overfill

799

**FOR FIRES — PROBABLE SOURCE OF IGNITION OR MOST PROBABLE SOURCE**

- 801 = NOT APPLICABLE
- 802 = HOT SURFACE
- 803 = WELDING, CUTTING
- 804 = FLARE
- 805 = OPEN FLAME
- 806 = MATCH, SMOKING, ETC.

- 807 = LIGHTING
- 808 = STATIC ELECTRICITY
- 809 = FRICTION
- 810 = SPONTANEOUS IGNITION
- 811 = SPONTANEOUS AUTO IGNITION
- 812 = ELECTRICAL

- 813 = COLLISION
- 814 = VANDALISM, SABOTAGE
- 815 = SPREAD FROM OUTSIDE
- 816 = CHEMICAL REACTION
- 817 = COMPRESSION IGNITION
- 818 = UNKNOWN

- 819 = ENGINES
- 899 = OTHER

801

**COST MUST REFLECT**

UNOCAL'S WORKING INTEREST \_\_\_\_\_ %

FINAL COST

ESTIMATED COST

(ADVISE FINAL COST AS SOON AS POSSIBLE)

1. REPLACEMENT/REPAIR COST OF DAMAGE TO COMPANY-OWNED PROPERTY OR EQUIPMENT	\$ _____
2. COST OF LOST PRODUCT	\$ _____
3. ENVIRONMENTAL LOSS LOST: CLEAN-UP	\$ 207,000 <sup>00</sup>
4. ENVIRONMENTAL LOSS COST: FINES	\$ _____
5. COST FOR MISDELIVERY/CONTAMINATION (RECLAMATION, CHARGE-OFF, ETC.)	\$ _____
<b>TOTAL LOSS</b>	\$ 207,000 <sup>00</sup>
6. BUSINESS INTERRUPTION/PRODUCTION LOSS COST	\$ _____

QUANTITY SPILLED (IN BARRELS) \_\_\_\_\_

NUMBER OF INJURIES: \_\_\_\_\_

EMPLOYEE \_\_\_\_\_ NON EMPLOYEE \_\_\_\_\_

REPORT SUBMITTED BY (PRINT)

RONALD E. BOCK

NETWORK TELEPHONE

355-2303

DATE

08/24/90

**UNOCAL**

NEAR MISS (NO COST)

CLAIM NO. <b>1542268</b>
LOCATION CODE
COST CENTER / SERV. STA. NO. <b>130-25-5325</b>

DATE OF INCIDENT <b>06-08-90</b>	TIME STARTED <b>N/A</b>	TIME ENDED <b>N/A</b>	DEPARTMENT / DIVISION <b>M&amp;C / NORTHERN CALIFORNIA</b>
LOCATION DESCRIPTION (NAME OF FACILITY, PLANT, LEASE, ETC.) <b>UNOCAL SERVICE STATION NO. 5325</b>			LOCATION ADDRESS, CITY, STATE, ZIP CODE <b>3220 LAKESHORE AVENUE OAKLAND, CALIFORNIA</b>

DESCRIPTION OF OCCURRENCE (INCLUDE PROPERTY, EQUIPMENT INVOLVED, EVENTS PRECEDING AND DURING, MANNER OF CONTROL, AGE OF EQUIPMENT)

DURING A RECENT TANK REPLACEMENT JOB, EXTENSIVE SOIL CONTAMINATION WAS ENCOUNTERED IN AND AROUND THE PRODUCT TANK PIT. THIS RESULTED IN EXTENSIVE OVER-EXCAVATION OF THE TANK PIT AS REQUIRED BY THE ALAMEDA COUNTY HEALTH AGENCY. APPROXIMATELY 750 TONS OF CONTAMINATED SOIL HAD TO BE DISPOSED AT A CLASS I LANDFILL BECAUSE OF THE HIGH LEVELS (>1000 ppm) OF GASOLINE. THE REMAINING 400 TONS WAS AERATED ON-SITE PRIOR TO DISPOSAL AT A CLASS III LANDFILL. IN ACCORDANCE WITH LOCAL/ STATE REGULATIONS, A GROUNDWATER CONTAMINATION ASSESSMENT WILL BE CONDUCTED TO DETERMINE IF THERE HAS BEEN ANY IMPACT TO GROUNDWATER.

ACTION TAKEN TO PREVENT RECURRENCE AND RECOMMENDED CHANGES IN POLICY OR EQUIPMENT.

TANKS/LINES REPLACED WITH DBL. WALL TANKS /LINE EQUIPPED WITH ELECTRONIC LEAK DETECTORS.

REGULATORY OR LAW ENFORCEMENT AGENCIES ADVISED:  
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD- SAN FRANCISCO BAY REGION

PROBABLE CAUSE OR TYPE OF INCIDENT REQUIRES FURTHER INVESTIGATION  
 ADDITIONAL DESCRIPTION ATTACHED

DIRECT SUPERVISOR
OPERATOR IN CHARGE

IN ADDITION TO THE ABOVE, COMPLETE THE FOLLOWING SECTION IF DAMAGE TO COMPANY PROPERTY WAS CAUSED BY OTHERS (3RD PARTY)

VEHICLE NO(S)	LICENSE NO.	STATE	REGISTERED OWNER	PHONE
VEHICLE DESCRIPTION			ADDRESS, CITY, STATE, ZIP CODE	
DRIVER'S NAME		PHONE	VEHICLE INSURED BY	PHONE
ADDRESS, CITY, STATE, ZIP CODE			ADDRESS	
DRIVER'S LICENSE NO.		STATE	POLICY OR ACCOUNT NO.	
DRIVER'S SIGNATURE			INJURED NAME	
WITNESS			ADDRESS	
ADDRESS			AGE	NATURE OF INJURY

DIRECT INQUIRIES AND CORRESPONDENCE TO:

MARKETING  
FEB 5 - 1991  
GENERAL FILES

SIGNED <b>Ronald E. Bork</b>	
TITLE <b>ENVIRONMENTAL ENGINEER</b>	
LOCATION <b>SAN RAMON, CALIFORNIA</b>	
DATE <b>08/23/90</b>	PHONE <b>415-277-2303</b>

DIVISION, OR COMPANY  
**WESTERN MARKETING  
 NORTHERN DIVISION**

**Authority For Expenditure**  
 Unocal Refining & Marketing Division

AFE NUMBER  
~~03-90-6368~~  
 DATE PREPARED  
 10/26/90

**UNOCAL**

AFE TITLE (NOT TO EXCEED 80 CHARACTERS INCLUDING SPACES)  
**ENVIRONMENTAL CLEANUP**

GROUP <b>25</b>	COST CENTER NUMBER <b>0005325</b>	LOCATION ADDRESS <b>UNOCAL SERVICE STATION #5325 3220 LAKESHORE AVENUE OAKLAND, CALIFORNIA</b>	<input type="checkbox"/> ADDITIONAL AUTHORIZATION
DCF RETURN ON INVESTMENT	REQUIRED <b>NONE</b> %		ORIGINAL AUTHORIZATION \$
	THIS PROPOSAL <b>N/A</b> %		ADDITIONAL COST \$
ESTIMATED MONTHS TO COMPLETE			TOTAL AUTHORIZATION \$
WRITE OFF OF ORIGINAL INVESTMENT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CAPITAL BUDGET REPORT CODES	LAND
BUDGETED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> CANCELLATION	ENVIRONMENTAL DOLLARS	FACILITIES
MATERIAL TRANSFER OR EXCHANGE OF ASSETS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		AIR
CLASSIFICATION OF INVESTMENT			WATER
ROI	NON-ROI		LAND & OTHER
<input type="checkbox"/> A. EXPANSION	<input type="checkbox"/> C. NECESSARY	LEASE OR RENTAL AGREEMENT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<input type="checkbox"/> B. COST REDUCTION	<input checked="" type="checkbox"/> D. REQUIRED	DATA PROCESSING, TELECOMMUNICATIONS, OR COMPUTER BASED PROCESS CONTROL EQUIPMENT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	<input type="checkbox"/> E. EXPERIMENTAL / OTHER	DETAILED COST ESTIMATE	<input checked="" type="checkbox"/> ATTACHED

EXPENDITURE JUSTIFICATION (INCLUDES PROJECT DESCRIPTION AND ECONOMIC JUSTIFICATION)

**THIS EXPENDITURE IS REQUESTED TO CONDUCT ENVIRONMENTAL CLEAN-UP AT THE ABOVE MENTIONED SERVICE STATION. (SEE ATTACHED PC FOR A DETAILED DESCRIPTION AND COST ESTIMATE)**

**A THOROUGH REVIEW OF THE DIVISION'S RECORDS INDICATE THAT NO LEAKS HAVE OCCURED WITHIN THE PAST SIX YEARS.**

**PER POLICY MEMO DATED APRIL 26, 1990, THIS EXPENDITURE MEETS THE CRITERIA TO BE EXPENSED AT THE REFINING AND MARKETING DIVISION LEVEL.**

**MARKETING  
FEB 5 - 1991**

**TENANCY: FEE OWNED**

APPROVED <i>[Signature]</i>	DATE 11/13/90	AMOUNT REQUESTED	
APPROVED	DATE	CAPITAL	
APPROVED	DATE	LAND	\$
APPROVED	DATE	FACILITIES	\$
APPROVED	DATE	EXPENSE <i>30255325</i>	\$ 207,000.00
APPROVED	DATE	ACCOUNTS RECEIVABLE	\$
APPROVED	DATE	OTHER	\$
APPROVED	DATE	TOTAL	\$ 207,000.00
VICE PRESIDENT <i>[Signature]</i>	DATE	MEMO: INVENTORY CHANGE	\$
PRESIDENT UNOCAL REFINING & MARKETING DIVISION / DATE	EXECUTIVE COMMITTEE	DATE	COMPTROLLER'S INITIAL
			REF & MKT'G      CORPORATE





3  
UNOCAL 76

LS # 5325

From the desk of  
Tim Ross

SHOULD BE CHARGED AT THE R&M LEVEL, BUT THE DIVISION'S DELAY IN SUBMITTING THE PROPER PAPERWORK WILL PREVENT THE 1990 CHARGES FROM BEING EXPENSED AT THAT LEVEL.

THE CLEANUP PROPOSAL INCLUDES FUNDING TO PAY FOR THE SOIL EXCAVATION, TREATMENT, AND DISPOSAL WORK THAT HAS ALREADY TAKEN PLACE. IT ALSO INCLUDES FUNDING TO PERFORM AN INITIAL GROUND-WATER INVESTIGATION. THIS INVESTIGATION IS REQUIRED BY THE REGIONAL WATER BOARD.

\$177,000<sup>00</sup> HAS BEEN SPENT TO DATE. AN ADDITIONAL \$30,000<sup>00</sup> IS REQUESTED TO PAY FOR THE GROUND-WATER INVESTIGATION, FOR A TOTAL

4  
UNOCAL 76

LS # 5325

From the desk of  
Tim Ross

OF \$207,000<sup>00</sup>. NO FUNDING HAS PREVIOUSLY BEEN APPROVED.

I WAS CONCERNED ABOUT THE LARGE AMOUNT OF SOIL EXCAVATED AND THE LARGE AMOUNT OF SOIL HAULED TO A CLASS I (HAZARDOUS) WASTE DISPOSAL SITE. HOWEVER, DIVISION PERSONNEL INFORMED ME THAT THE SOIL HAD TO BE REMEDIATED, OR A PLAN HAD TO BE APPROVED TO REMEDIATE IT, BEFORE THE TK RPL COULD CONTINUE. THE DIVISION REVIEWED ALL AVAILABLE SOIL REMEDIATION PROCESSES AND CONCLUDED THAT EXCAVATION WAS THE MOST COST-EFFECTIVE. THE DIVISION NORMALLY AERATES AS MUCH CONTAMINATION SOIL AS ALLOWED BY THE REGULATORY AGENCIES

(N)

UNOCAL 76  
MARKETING

12/18/90

LS # 5325  
OAKLAND, CA

FEB 5 - 1991 From the desk of  
Tim Ross

GENERAL FILES

S. E. HAYES

DEC 19 1990

SCOTT-

MARKETING ENGINEERING HAS REVIEWED THE ATTACHED CLEANUP PROPOSAL FOR THE SUBJECT SERVICE STATION IN OAKLAND. THE STATION WAS THE SITE OF A TANK REPLACEMENT EARLIER THIS YEAR. UPON REMOVAL OF THE TANKS, EXTENSIVE SOIL CONTAMINATION WAS ENCOUNTERED. THE REMOVAL OF THE MOST HIGHLY CONTAMINATED SOIL WAS REQUIRED BY THE ALAMEDA CO. HEALTH AGENCY BEFORE THE TANK REPLACEMENT COULD CONTINUE. THE CONTAMINATED SOIL HAS BEEN REMOVED, THE TANKS WERE REPLACED, AND THE STATION IS BACK IN OPERATION.

UNOCAL 76

LS # 5325

From the desk of  
Tim Ross

A 966M AUDIT WAS PERFORMED BY THE DIVISION AND IT HAS BEEN DETERMINED THAT THERE WAS NO DISCREPANCY IN THE DEALER'S BOOKS. A SEARCH OF THE STATION FILES ALSO FOUND NO EVIDENCE OF PAST LEAKS. THE CONTAMINATION HAS BEEN DETERMINED TO HAVE BEEN A RESULT OF NORMAL OPERATION OF THE STATION. (WITH THE AMOUNT OF CONTAMINATION FOUND, I BELIEVE THAT A LEAK DID OCCUR AT SOME POINT, BUT THAT RECORDS OF IT WERE NOT KEPT). FOR THESE REASONS, IT HAS BEEN DETERMINED THAT THE DEALER HAS NO FINANCIAL RESPONSIBILITY FOR THE CLEANUP, AND THE CLEANUP SHOULD BE CHARGED AT THE R&M DIVISION LEVEL. I AGREE THAT THE CLEANUP

**UNOCAL** 76

LS # 5395

From the desk of  
Tim Ross

HOWEVER, THE CONTAMINATION LEVEL OF A LARGE AMOUNT OF THE SOIL WAS ABOVE THE LIMITS ALLOWED FOR AERATION, SO THE SOIL HAD TO BE DISPOSED OF AS A HAZARDOUS WASTE.

MARKETING ENGINEER RECOMMENDS THAT THIS CLEANUP PROPOSAL BE APPROVED BY MANAGEMENT.

*JRR*

MARKETING  
FEB 5 - 1991  
GENERAL CHIEF

3

From the desk of:

SCOTT HAYES

FIELDING -

THIS IS AN ENVIRONMENTAL CLEAN-UP FUNDING REQUEST IN THE AMOUNT OF \$207,000. THE DIVISION HAS ALREADY SPENT \$177,000 OF THAT AMOUNT - THIS WAS NECESSARY IN ORDER TO COMPLETE A TANK REPLACEMENT JOB AND GET THE STATION BACK IN OPERATION AS QUICKLY AS POSSIBLE. THE REMAINING FUNDING WILL GO TOWARDS THE GROUND WATER INVESTIGATION THAT NEEDS TO BE DONE PER THE GOVERNMENT REGULATIONS.

MARKETING ENGINEERING HAS REVIEWED AND APPROVED THE PROCEDURES AND TECHNOLOGY'S TO BE EMPLOYED ON THIS PROJECT.

EVEN THOUGH THE DIVISION HAS ALREADY SPENT MONEY IN THIS CASE, I BELIEVE IT IS WELL JUSTIFIED SINCE THEY WERE ATTEMPTING TO MINIMIZE THE STATION CLOSURE TIME.

I RECOMMEND APPROVAL AND SIGNATURE.

*Scott Hayes 1/2/91*

MARKETING

FEB 5 - 1991

GENERAL CHIEF