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November 13, 1991

2251,208.03

Alameda County Environmental  
Care Services  
Hazardous Materials Division  
80 Swan Way, Room 200  
Oakland, California 94621

Attention: Mr. Paul Smith

Gentlemen:

Soil Treatment  
Former Texaco Service Station  
2225 Telegraph Ave  
Oakland, California

Harding Lawson Associates (HLA) presents this letter discussing plans for soil treatment by Texaco Refining and Marketing, Inc. to be implemented at the former Texaco Station located at 2225 Telegraph, Oakland, California. **The station is currently owned and operated by Exxon.** We understand that Exxon's permit to remove and replace the existing underground storage tanks (USTs) is pending approval from the Alameda County Health Department (ACHD). The ACHD has requested a plan for removing and/or remediating total petroleum hydrocarbon (TPH) affected soils at the site as well as clarification concerning Exxon's UST piping plans. **This letter addresses Texaco's intentions for cleaning up affected soils.**

The installation of the new USTs will require some over excavation due to the relocation of the tanks. This soil will be sampled and disposed of off-site. There are no plans to remove additional soils that may be affected by TPH other than what is required to install the new USTs. **Texaco plans to remediate affected soil in-situ using vapor extraction as discussed below.**

HLA has been operating a groundwater treatment system at this site since November, 1990. Contaminated groundwater is extracted from three on-site wells (Plate 1) and treated through four carbon canisters connected in series prior discharged into the sanitary sewer. **Each of the three existing groundwater**

November 13, 1991  
2251,208.03  
Mr. Paul Smith  
Alameda County Health Environmental  
Page 2

Harding Lawson Associates

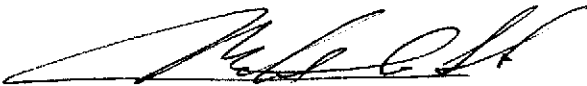
extraction wells has also been constructed for concurrent use as soil vapor extraction wells.

PVC vapor extraction lines have been extended subsurface from each well to the treatment compound for future connection to a vapor extraction system consisting of a blower and thermal oxidizer. The three wells have been placed in areas known to contain TPH. Additional vapor recovery wells may be installed within the tank backfill or adjacent native soil based on conditions encountered during tank removal.

Because Texaco plans to utilize the existing vapor extraction lines and install a vapor treatment system to remediate the contaminated soils on site, no overexcavation of contaminated soils encountered during the tank removal is planned. Overexcavation during UST removal to remove TPH affected soil would be limited by existing structures in the immediate area, including the pump islands and canopies, service station building, and the underground BART tunnel.

We trust this provides the information need at this time. If you have any questions, please call.

Sincerely,



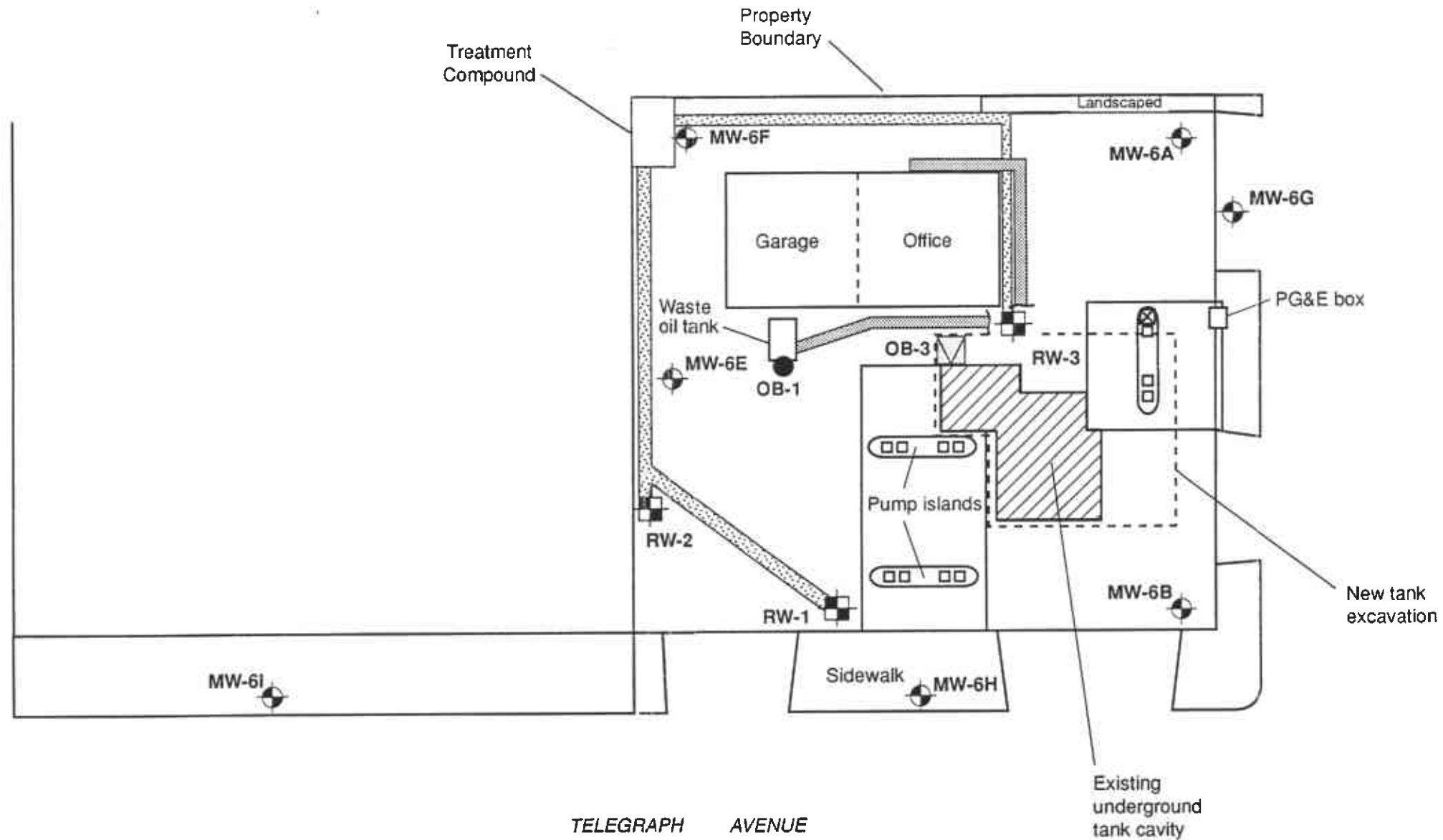
Michael A. Sides  
Civil Engineer

MAS/mlw 031688T/L33

Attachments: Plate 1







cc: Texaco Refining and Marketing Inc.  
108 Cutting Boulevard  
Richmond, California 94804  
Attention: Mr. R. R. Zielinski

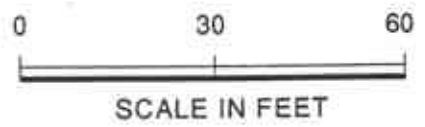
Exxon Company, U.S.A.  
P. O. Box 4032  
Concord, California 94524-2032  
Attention: Mr. William Y. Wang



WEST GRAND AVENUE

**EXPLANATION**

-  Groundwater monitoring well
-  Groundwater recovery/vapor extraction well
-  Observation well
-  Proposed vapor extraction well
-  Exxon vent line trench
-  Texaco remediation system trench with 2-inch PVC vapor extraction line



**Harding Lawson Associates**  
Engineering and Environmental Services

DRAWN S. Patel  
JOB NUMBER 2251,161.03

**Site Plan**  
Former Texaco Service Station  
2225 Telegraph Avenue  
Oakland, California

APPROVED *MJB*

DATE 11/13/91

REVISED DATE

PLATE

**1**