SUMMIT ENGINEERING

AL MASSO, P.E.
Civil and Geotechnical Engineer
Land Surveyor

8045 Shirley Drive
Oakland, CA 94611

531-6655
(510) 531-6855

FACSIMILE COVER NOTE

FAX NO 569-4757 DATE 6/2/93

ATTENTION TOM PEACOCK OR SUSAN HUGO

COMPANY ALAMEDA CO. DEPT. OF ENV. HEALTH

FROM AL MASSO FAX NO 482-5848

NUMBER OF PAGES (including cover note) 3

MESSAGE WE WILL PROCEED AS SOON AS YOU APPROVE WORK PLAN.

SUMMIT ENGINEERING

- House Inspection
- Soils Report
- Surveying
- Design
- Hazardous Waste Studies

6046 Shirley Drive
Oakland, CA 94611
Tel: (510) 531-6655
Fax:(510) 482-5848

Thomas F. Peacock
Hazardous Materials Division
Alameda County Dept. of Environmental Health
80 Swan Way, Room 200
Oakland CA 94621

May 30, 1993

Re : 5812 Hollis Street, Emeryville CA 94608

Dear Mr. Peacock :

In response to your December 29, 1992 (STID 49) letter, the following work plan is proposed for groundwater sampling and verification analysis at the subject site.

INTRODUCTION

A 10,000-gal diesel tank and a 3000-gal gasoline tank were removed from the subject site on December 5th, 1989. Several soil samples were analyzed showing minor amounts of TPH-d and non-detectable amounts of BTEX. A water sample from the tank pit had a surface sheen and showed 90 ppm TPH-d, and minor amounts of TPH-g and BTEX. In view of this results, the County of Alameda is now requiring a groundwater investigation.

SCOPE OF WORK

A monitoring well will be installed south-southwest of the former excavation area in a downgradient location of the previously existing underground tanks.

The well will extend to a depth of 30 feet, and will consist of a 2-inch diameter PVC casing with the top 5 feet of blank pipe, and the remaining 25 feet of screen. Both well ends will be capped with the lower end converted to a silt catcher. The well will be completed with the customary sand backfill, bentonite seal, and Christy box as well cover. A point of reference on the top of the well casing will be marked, surveyed, and tied to a city benchmark for groundwater level control and to two off-site wells for gradient determination.

SOIL SAMPLING AND ANALYSIS

During drilling, soil samples will be collected and screened every five feet. Samples will be collected in 2-in x 6-in brass tubes; samples will be screened using a photo-ionization detector (PID) as an organic vapor analyzer for volatile hydrocarbons. PID readings will be recorded and the sample registering the highest reading will be submitted to Precision Analytical Laboratory of Richmond CA, a state-licensed facility, for analysis of TPH-g, TPH-d, and BTXE using EPA methods 5030, 8015m, and 8020 respectively. If no volatiles are detected, a soil sample in the vadose zone will be analyzed for TPH-d. Soil cuttings will be stored in drums on site pending analysis results for disposal.

WATER SAMPLING AND ANALYSIS

Following installation, the well will be developed using conventional methods. The well will also be purged and a water sample collected and submitted to Precision Lab for analysis of TPH-g, TPH-d, and BTXE using EPA methods 8015m, 8015m, and 602 respectively. Water used during development and sampling processes will be kept on site pending results of analysis for disposal.

DOCUMENTATION

A report describing field activities as well as results of analysis will be prepared and copies submitted to Alameda County and to Rich Hiett of the Regional Water Quality Control Board. If no contamination is found, a Site Closure Report will be prepared and submitted to County and to the RWQCB.

If you have any questions about this work plan, please call us. We look forward to working with you on this project.

Sincerely,

Al G. Masso
RCE-30442