GROUNDWATER
TECHNOLOGY, INC. 91 JUN 17 4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387
FAX: (415) 685-9148

June 14, 1991

Job No. 020301038

Mr. Scott Seery, CHMM
Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Preliminary Site Assessment
Chevron Service Station #9-6991
2920 Castro Valley Boulevard,
Castro Valley, California

Dear Mr Seery:

In response to your letter dated June 4, 1991 to Ms. Nancy Vukelich of Chevron U.S.A. Inc, Groundwater Technology, Inc. has prepared this letter to address the points made in your letter and serve as an addendum to the work plan dated April 26, 1991 prepared by Groundwater Technology.

1) The proposed soil sampling uses steel sampling barrels to collect soil. If required, the sample barrel can be lined with brass sleeves similar to a split-spoon sampler. Normally, the sampling barrel is left unlined allowing for visual inspection of the soil. Any sample retained for laboratory analysis is then packed in a brass sample tube in the field. Experience with the system has shown that there is no significant loss of volatiles during repacking and this method has been approved by the Contra Costa County Health Department. If required, brass sample tubes can be used during coring operations.

   Samples for laboratory analyses will be selected based on field observations. This would include any visual signs of adsorbed hydrocarbons, obvious hydrocarbon odors, and field readings of volatile organic vapors registered using a photo-ionization detector. If there are no signs of adsorbed hydrocarbons, the lower-most sample above the water table will be analyzed. If signs of adsorbed hydrocarbons are observed, then additional samples will be analyzed to determine the distribution.

2) Soil samples from all borings will be analyzed for both gasoline and diesel-fuel hydrocarbons, and benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds. Soil samples analyzed from the northernmost boring (near the former waste-oil tank location) will also be sampled for total oil and grease, chlorinated hydrocarbons, semi-volatile organic compounds, cadmium, chromium, lead, zinc and ~~nitrates~~. All preliminary water samples collected from the wells will be analyzed for BTEX, TPH-as-gasoline/diesel. The water sample collected from the well installed nearest the waste oil tank will also be analyzed for the same parameters as the soil sample from that boring. Since Superior Analytical Laboratories is not certified to perform analysis for semi-volatile organic compounds and nitrates, all such analysis will be subcontracted to Clayton Environmental Laboratories.

3) Soil samples will be collected at minimum intervals of one sample every 5 feet where there is a significant change in soil stratigraphy, or in areas of obvious hydrocarbon contamination. Samples will be selected for analysis based on the criteria presented in item 1.

4) The wells will be purged using a peristaltic pump, but will be sampled either using a stainless steel bailer or a Teflon® pipette.

5) The attached figure has been updated to show the location of the former waste-oil tank pit. The monitoring well is adjacent to the former tank location - 10 ft.

6) Prior to well installation, Groundwater Technology will consult local hydrological data in an effort to determine the local groundwater flow direction. Actual placement of the wells will be determined by the available data. If no contradictory data are found, Groundwater Technology will use the information from the Anita Avenue and Castro Valley Boulevard site(s) and adjust the well locations accordingly.

7) The wells will be surveyed to an established benchmark to an accuracy of 0.01 foot. Actual water-level data will be expressed with regards to mean sea level.

8) Groundwater sampling will be conducted in accordance to the attached Stand Operating Procedures (SOPs). Rinse blanks and trip blanks will be collected for TPH-as-gasoline/diesel and BTEX during well sampling. One of the rinsate blanks will be analyzed and if anomalous sample results are reported, additional blanks may be run. All samples will be collected in duplicate.

9) A copy of the Site Health and Safety Plan is attached.

10) The soil sampling equipment will be decontaminated using a steam cleaner. An effort will be made to decontaminate the water sampling equipment with non-phosphate detergents.

If you have any further questions or require any additional information before approving the work plan, please contact our Concord office at (415) 671-2387.

Sincerely,
GROUNDWATER TECHNOLOGY, INC.

Glen L. Mitchell
Project Hydrogeologist

Sandra L. Lindsey
Project Manager

GLM:SLL:lf

Attachments

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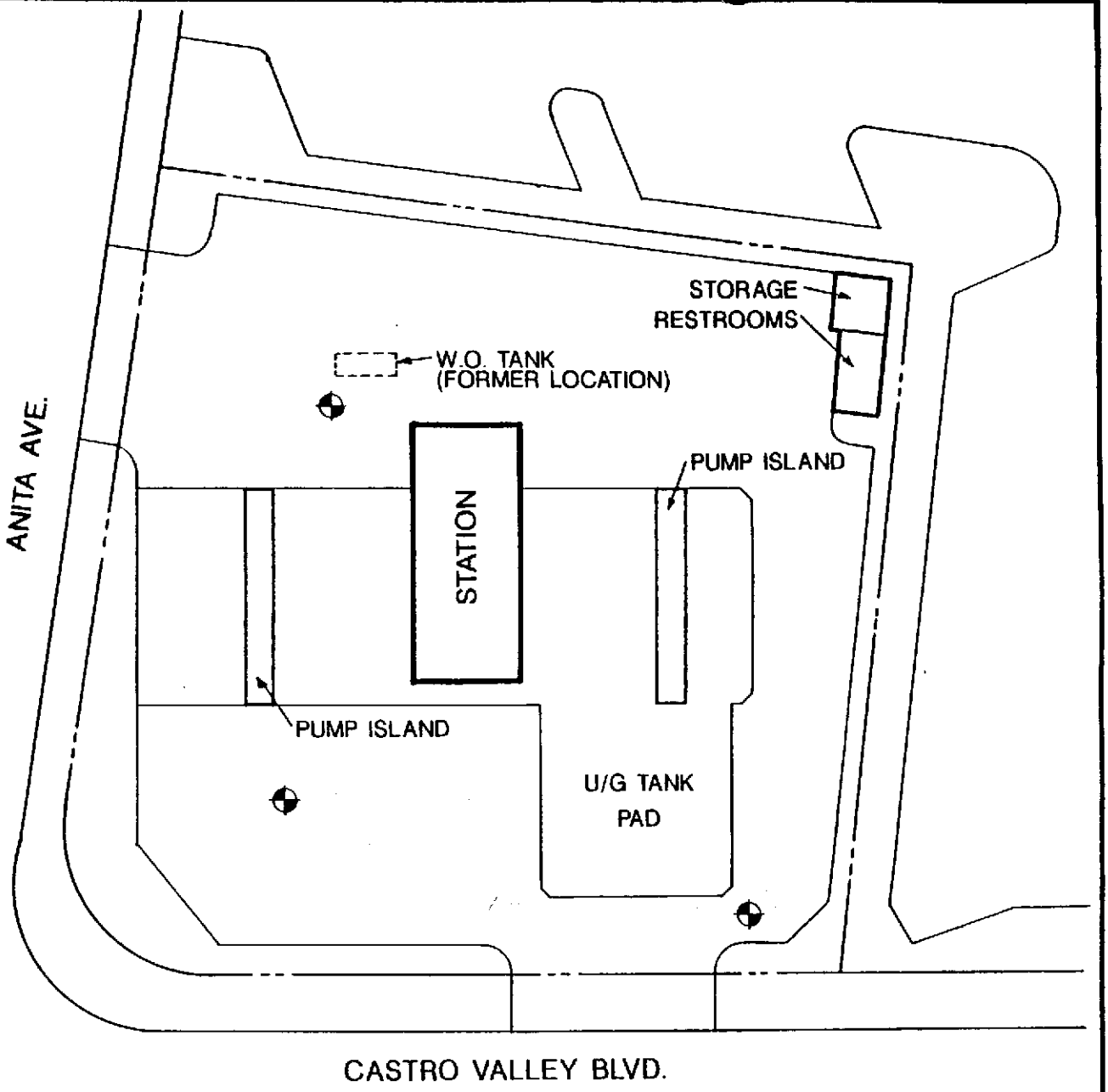
(030522)



LEGEND

PROPOSED MONITORING WELL

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FIGURE 2
PROPOSED MONITORING WELL LOCATIONS

0 FEET 30

CHEVRON U.S.A. Inc.
SERVICE STATION NO. 9-6991
CASTRO VALLEY, CALIFORNIA

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