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# HAGEMAN-SCHANK, INC.

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CALIFORNIA REGIONAL WATER

JUN 30 1989 SH

QUALITY CONTROL BOARD

June 23, 1989
Ref: P89-02-8

Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way - Room 200
Oakland, California 94621

Atten: Mr. Rafat A. Shahid, Chief
Hazardous Materials Program

Subject: PROPOSED WORK PLAN FOR THE INSTALLATION OF THREE (3) GROUNDWATER MONITORING WELLS AT 3098 CASTRO VALLEY BLVD., CASTRO VALLEY, CA GROUNDWATER INVESTIGATION

Dear Mr. Shahid;

In response to your letter of June 13, 1989 to Mr. Cliff Sherwood of Adobe Associates regarding the installation of groundwater monitoring wells on the subject site.

The proposed work plan involves the installation of three (3) groundwater wells to monitor and sample for possibile groundwater contamination resulting from the removal of two 10,000 underground gasoline storage tanks prior the demolition of an existing car wash on this site.

## MONITORING WELL CONSTRUCTION

The monitoring wells shall be constructed in three planting areas as shown on the attached site plan. The well construction parameters are as follows:

An 8" diameter hole is drilled using a steam cleaned hollowstem continous flight auger.

Well construction and soil samples will be logged by a licensed Civil Engineer, Mr. Gary Aguiar No. C34262.

SGH 7/5/89

Samples will be collected in steamed cleaned, alconox washed brass liners placed in a California split spoon sampler.

Samples will be taken every 5` from grade until groundwater is encountered.

The well borings extend 20' into the aquifer or until a competent clay layer is found. Competent clay is greater than 5` thick, if such a layers are encountered they will be backfilled with neat cement to within 3' of permeable material. 2" PVC well casings will be installed the slotted interval will extend above the water table.

The slotted casings will be sand packed to three feet (3') above the perforations, then one foot (1') of bentonite spacer, and last the neat cement seal to grade.

The well head will be finished with a christy box and locking cap.

## SAMPLE COLLECTION AND ANALYSIS

As soil Samples are collected, the 2" dia. 6" long brass liners are covered with teflon and a plastic cap, sealed and secured with vinyl tape, placed on ice. All samples are recorded on a chain of custody and transported to a certified laborartory for analysis and a written report of results. The Analysis will include Total Petroleum Hydrocarbons as gasoline, Benzene, Ethyl-benzene, Toluene, and Xylenes.

## WELL DEVELOPMENT

The wells will be allowed to stabalize for a few days, at which time they will be checked for free floating product, odor or sheen, using a steam cleaned alconoxe washed clear teflon bailer. A surge block is then used to develop the the well. The water is then purged by using a geotec pump, the pumping continues until the water is slit free. A water sample is the taken. It should be noted that all soil cuttings will be barreled and transported under manifest, as will the purged water in approved DOT containers.

## WATER WELL SAMPLING

The water sample is collected using a steamed cleaned, alconox washed clear Teflon bailer. The collected sample is placed in a voa bottle, placed on ice, then transported to certified laboratory under a chain of custody. The laboratory will analyze for total petroleum hydrocarbons as gasoline Benzene, Ethyl benzene, Toluene and Xylenes. A written report of the results will be submitted.

The proposed date for the wells to be constructed is during the week of July 3-7.

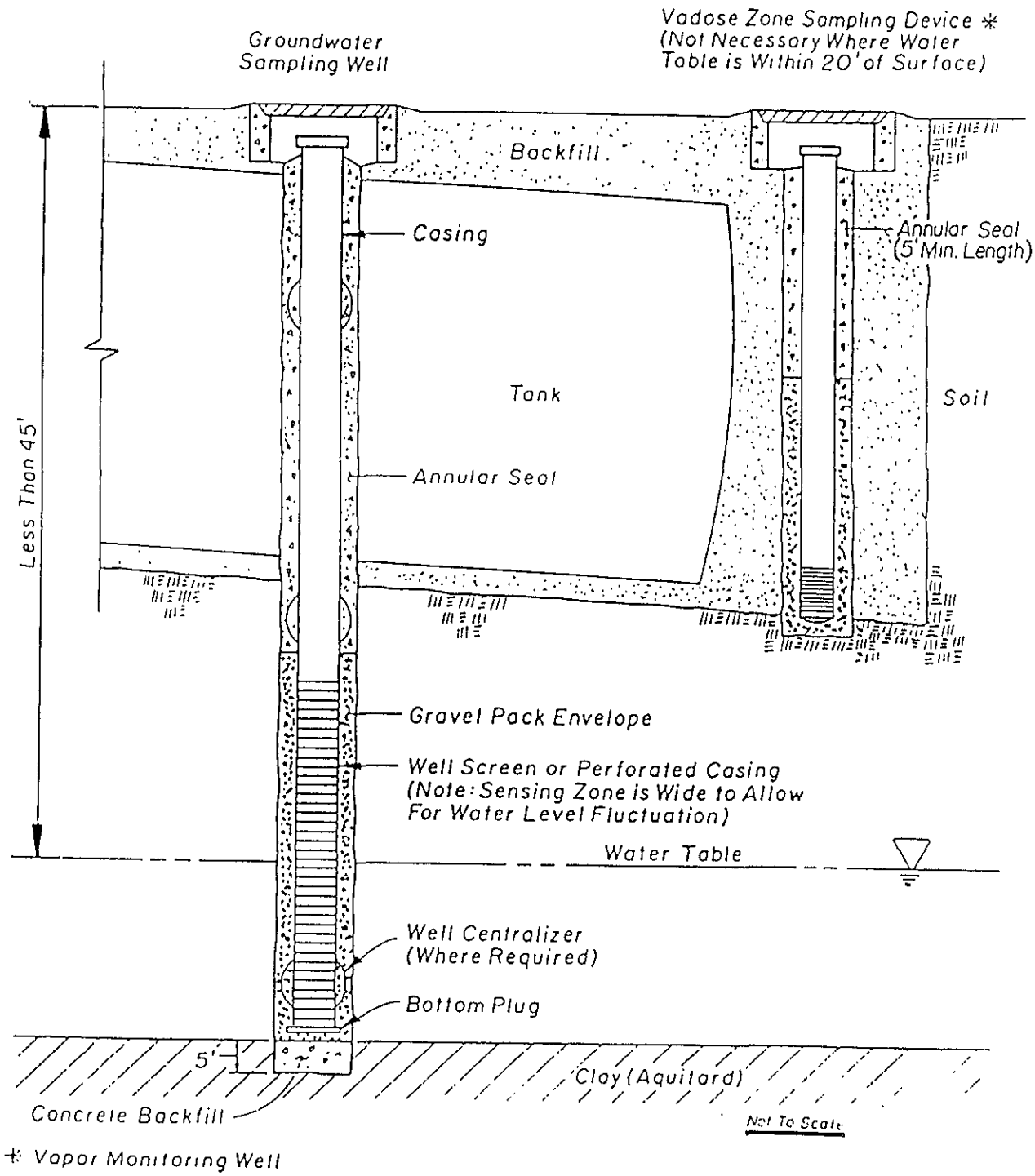
If any additional information is needed or there are questions concerning this proposal please feel free to call me 415-837-2926.

Sincerely,
HAGEMAN-SCHANK, INC.

Bruce Hageman

Enclorsures
cc: Scott Seery, Alameda County Hazardous Materials Program
Scott Hugenberger, RWQCB
Bob Bohman, Castro Valley Fire Department
Mr. Cliff Sherwood, Adobe Associates-Castro Valley
Mr. Craig Mayfield, Alameda Flood Control District
Zone 7
5997 Parkside Drive, Pleasanton, CA.

## Generalized Well Construction Details




GROUNDWATER RESOURCE INDUSTRIES

FIGURE:

# Adobe Center
## Castro Valley

**Developers** Adobe Associates
Castro Valley

**Architects**
**Planners** Hooper, Olmsted & Hrovat
San Francisco

| Symbol | Type | Botanical Name | Common Name |
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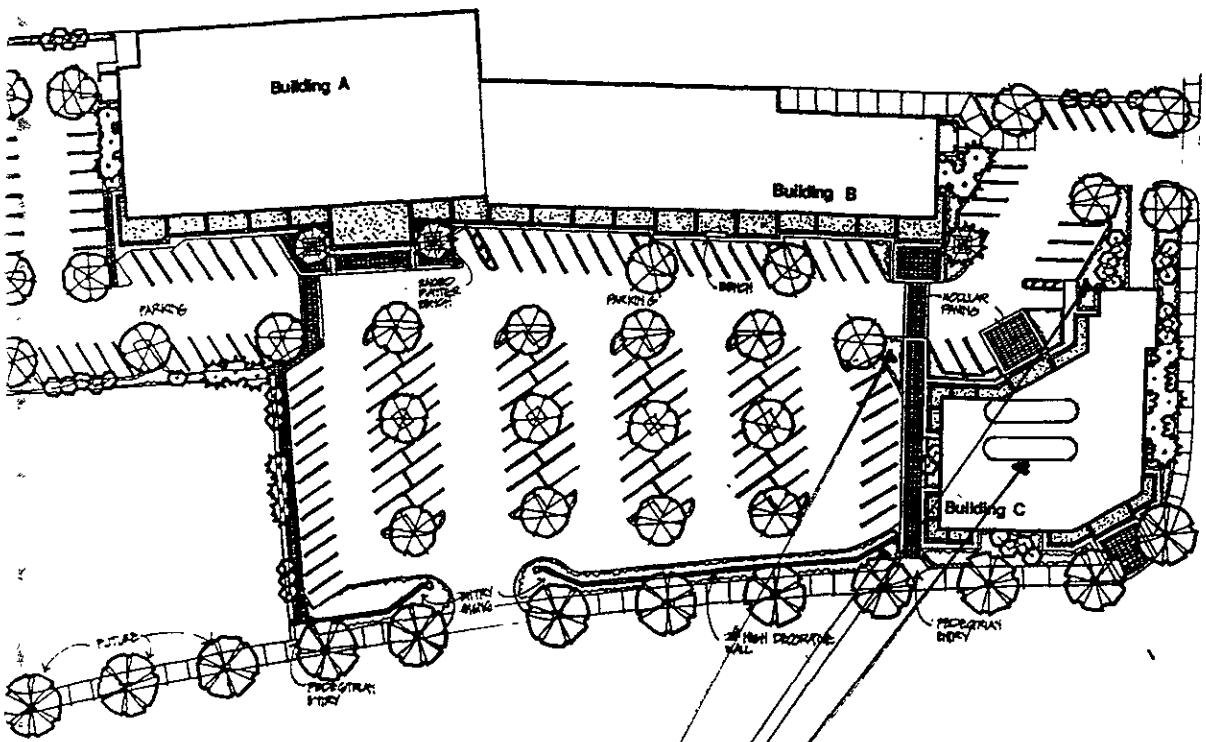


ıdscape Plan

PROPOSED WELL LOCATIONS

PREVIOUS UNDERGROUND TANK LOCATIONS

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