

Alameda County

JAN 13 2006

Environmental Health

January 10, 2006  
Project 9538.000Jerry Wickham, P.G.  
Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577Subject: Re-Evaluation of Case Closure Information  
StID 2937  
3800 First Street  
Livermore, California

Dear Mr. Wickham:

On behalf of First Street, LLC, Geomatrix Consultants, Inc. (Geomatrix), is responding to the request in your November 15, 2005 letter that the closure conditions for the underground storage tanks (USTs) formerly located at the 3800 First Street site be re-evaluated in anticipation of a land use change of the site from commercial to residential. This letter provides a brief summary of the UST closure activities and our evaluation of the data generated during removal of the USTs and subsequent groundwater monitoring relative to the planned residential use at the site. Our evaluation is based on information presented in the documents listed in Attachment A.

Three USTs were removed with oversight from Alameda County Health Care Services Agency and the City of Livermore Fire Department from an area located west of the 3800 First Street building. The approximate location of the USTs and extent of the UST excavation are shown on the attached figure (Soil Tech, 1994b). At the time of their removal, low concentrations of residual petroleum-related constituents were detected in soil within the excavation, suggesting that only minimal impact from the former USTs had occurred. Specifically, total petroleum hydrocarbons characterized as gasoline (TPHg) were detected up to 998 milligrams per kilogram (mg/kg), total oil and grease was reported at 95 mg/kg, and benzene, toluene, ethylbenzene, and xylenes (collectively, BTEX) were detected at a combined total concentration of less than 1 mg/kg. As a result of these detections, additional soil excavation was conducted at the former tank locations and additional sidewall and bottom soil sampling was conducted. No residual petroleum constituents were detected in soil samples collected following the additional excavation.

Following the completion of excavation, three groundwater monitoring wells were installed within approximately 10 feet of the excavation. These wells were installed to a maximum depth




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of 65 feet below ground surface (bgs), and during four quarters of monitoring, groundwater elevations ranged between approximately 41 and 60 feet bgs. During four quarters of groundwater sampling, ethylbenzene and xylenes were detected once in a groundwater sample from one well at concentrations of 1 and 4 micrograms per liter ( $\mu\text{g/l}$ ), respectively. No other constituents analyzed for were detected during the monitoring program. The detected concentrations of ethylbenzene and xylenes are well below the residential environmental screening levels (ESLs) developed by the Regional Water Quality Control Board, San Francisco Bay Region for drinking water of 30  $\mu\text{g/l}$  and 20  $\mu\text{g/l}$  for ethylbenzene and xylenes, respectively.

Given the minor impact to soil initially detected from soil samples during removal of the USTs, the absence of residual petroleum constituents in excavation sidewall samples, and low residual concentrations of petroleum-related constituents in groundwater, we conclude that site conditions are appropriate for the planned residential site use.

Please feel free to call the undersigned should you have any comments or questions.

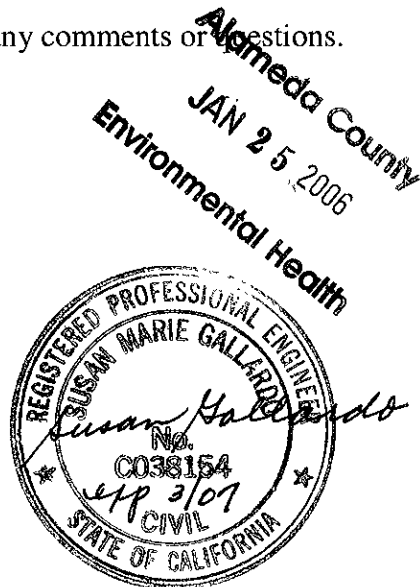
Sincerely yours,  
GEOMATRIX CONSULTANTS, INC.

  
Susan M. Gallardo, PE  
Principal Engineer

Attachment A – 3800 First Street Documents  
Figure – 3800 First Street Site

cc: Steve Cloudsley

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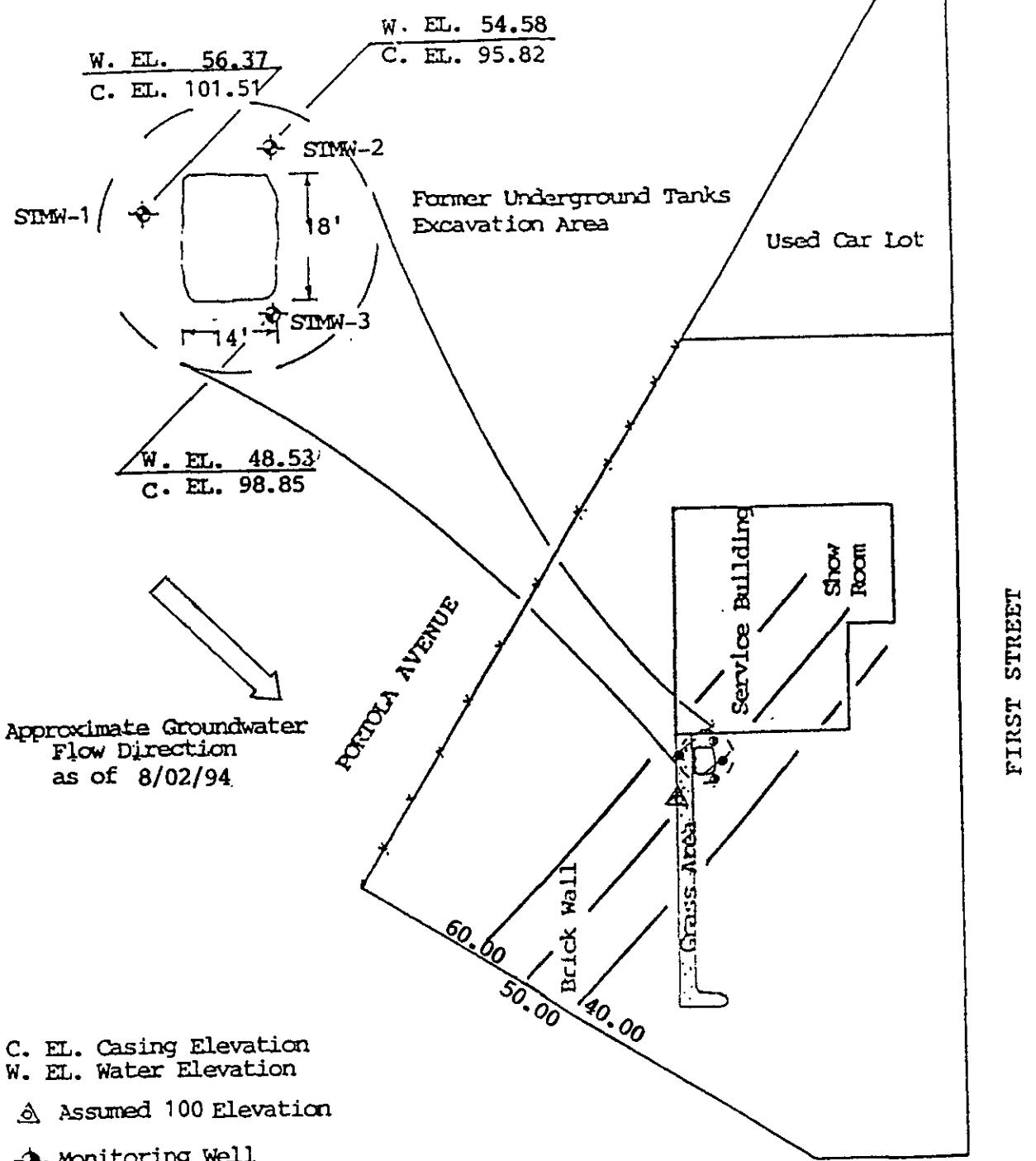
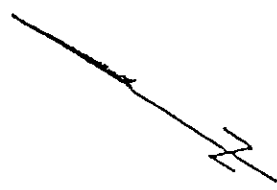




## ATTACHMENT A

### 3800 First Street Documents

- Soil Tech Engineering, Inc., 1993a, Soil Sampling at the Former Underground Tanks Storage Area, Livermore Honda Property Located at 3800 First Street, in Livermore, California, January 4.
- Soil Tech Engineering, Inc., 1993b, Proposed Interim Corrective Action and Preliminary Soil & Groundwater Assessment For Livermore Honda Located at 3800 First Street, Livermore, California, April 2.
- Soil Tech Engineering, Inc., 1993c, Preliminary Soil and Groundwater Assessment in the Vicinity of Former Underground Tanks for Livermore Honda Located at 3800 First Street, Livermore, California, August 16.
- Soil Tech Engineering, Inc., 1993d, Quarterly Groundwater Monitoring and Sampling at the Property Located at 3800 First Street, Livermore, California, December 21.
- Soil Tech Engineering, Inc., 1994a, Quarterly Groundwater Monitoring and Sampling at the Property Located at 3800 First Street, Livermore, California, March 9.
- Soil Tech Engineering, Inc., 1994b, Quarterly Groundwater Monitoring and Sampling at the Property Located at 3800 First Street, Livermore, California, August 5.



- C. EL. Casing Elevation
- W. EL. Water Elevation
- △ Assumed 100 Elevation
- ⊕ Monitoring Well
- Borehole
- Chain Link Fence
- Approximate Soil Samples Locations

SCALE: 1"=100'

Figure 2