

January 26, 1996

Ms. Jennifer Eberle  
Alameda County Department of  
Environmental Health  
UST Local Oversight Program  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

Re: **Proposed Subsurface Investigation Workplan**  
1721 Webster Street  
Oakland, CA

Dear Ms. Eberle:

Cambria Environmental Technology (Cambria) is pleased to submit this proposed subsurface investigation workplan for the site referenced above. The objective of this subsurface investigation is to determine the downgradient edge of the ground water contaminant plume. As we discussed January 24, 1996 telephone conversation, we propose to conduct the investigation using a flexible decision-making procedure designed to minimize the number of ground water monitoring wells installed in the street. Our recommended work scope is summarized below.

#### PROPOSED SCOPE OF WORK

Consistent with Alameda County Department of Environmental Health (ACDEH) requests, Cambria will perform the following work scope:

- Secure excavation and drilling permits, coordinate an underground utility survey in the Webster Street Right of Way, arrange for lane closure and mobilize to the site;
- Drill up to five soil borings to 22 ft depth (two ft below the water table) and collect soil samples and one grab ground water sample from each boring;
- Analyze two soil samples from each boring for total petroleum hydrocarbons as gasoline (TPHg) and benzene, ethylbenzene, toluene, and xylenes (BETX);
- Analyze up to five grab ground water samples from the borings for TPHg and BETX;
- Review the results of the grab water sampling and determine whether one or two wells will be installed;
- Forward a map to the ACDEH showing the proposed well(s) location(s) and secure an encroachment permit and an additional excavation permit to install the well(s);

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# CAMBRIA

- Remobilize to the site and install one or two ground water monitoring well(s) down gradient of the former gasoline USTs;
- Develop and sample the new well(s) and three existing wells;
- Survey the top of casing elevation of the new well(s) relative to the existing wells,
- Analyze one water sample from each of the new and three existing monitoring wells for TPHg and BETX. This sampling will constitute the first quarterly ground water monitoring episode;
- Prepare a report for submittal to the ACDEH that describes our sampling methodology, tabulates the analytic results, and presents our recommendations for additional work, if any is needed.

## WORK PLAN

Since it is difficult to estimate the distance that the hydrocarbons have migrated downgradient from the former tanks, we cannot presently determine whether one or two wells will be needed to characterize the plume. If the results of the soil boring and sampling indicate that the released hydrocarbons have migrated only a limited distance, then it is likely that only one additional well, installed near the adjacent Webster Street curb, will be needed. However, if the soil boring results indicate more substantial migration, then it is likely that at least two wells will be needed. After the initial soil boring and grab water sample phase, we will forward to you tabulated analytic results and a map showing our initial soil boring and proposed well locations.

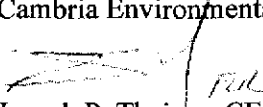
## SCHEDULE

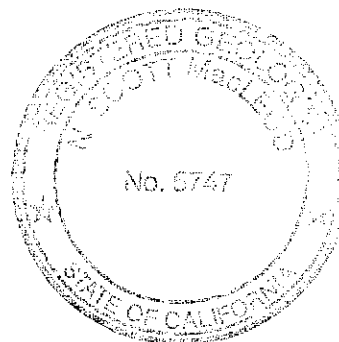
Contingent on your timely acceptance of this workplan, we can begin securing the excavation and encroachment permits necessary to implement our proposed scope of work. We estimate that we can complete the field investigation within two to three weeks after the permits have been secured and can submit a report about five weeks after completing the field work.

## CLOSING

Cambria is pleased to offer our environmental consulting services for this project, and look forward to working with you. Please call if we can be of service or if you have any questions regarding this proposed workplan.

Sincerely,  
Cambria Environmental Technology, Inc.

  
Joseph P. Theisen, CEG  
Principal Hydrogeologist



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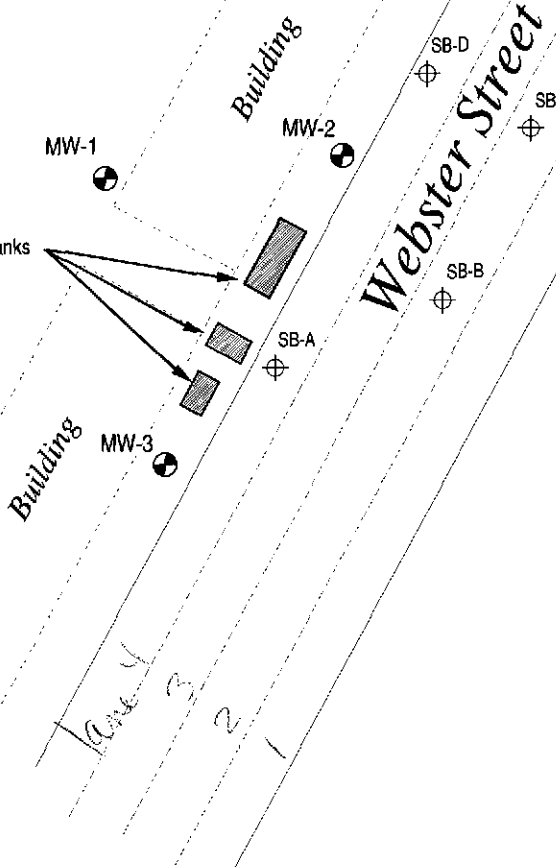
Attachments: Standard Field Procedures

cc: Mr. Lee Douglas, Douglas Parking, 1721 Webster Street, Oakland, California 94612

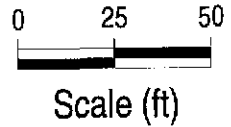


Garage Area

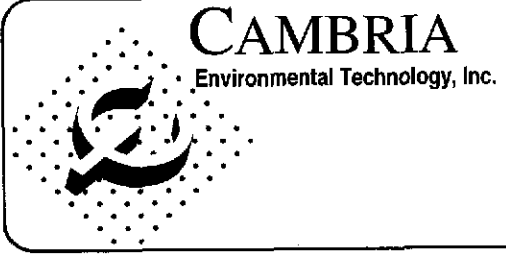
Former Underground Storage Tanks





Ground Water Flow Direction



Base map from Piers Environmental Services



EXPLANATION	
	Existing Ground Water Monitoring Well
	Proposed Boring Location

Proposed Boring Locations  
1721 Webster Street  
Oakland, California

FIGURE  
**1**