



27807

July 25, 1995

Ms. Lynn Nightingale  
102 Flying Cloud Isle  
Foster City, CA 94404

SUBJECT: ASE PROPOSAL NO. 95-175  
SOIL AND GROUNDWATER ASSESSMENT  
4629 Martin Luther King Jr. Way  
Oakland, California

Dear Ms. Nightingale:

Aqua Science Engineers (ASE) is pleased to submit this proposal to perform a soil and groundwater assessment at the above-referenced site. On July 16 and again on July 25, 1995, I spoke with Ms. Eva Chu of the Alameda County Health Care Services Agency (ACHCSA) regarding the scope of work for this project and how site closure may be obtained in the most inexpensive manner. The scope of work presented in this proposal represent the requirements of the ACHCSA as discussed in those telephone conversations.

ASE is an experienced contractor and environmental consultant that has completed over 1,000 environmental assessment and underground tank projects within the last 14 years and is familiar with all aspects of the proposed work and the associated regulatory agencies. ASE stresses the performance of professional quality environmental consulting and contracting services. Field investigations and operations are conducted by trained geologists, engineers, and technicians who are certified per the mandatory 40-hour safety program as specified in the OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120). All personnel participate in a baseline medical evaluation program and many hold Red Cross Multi-media First Aid Certificates. Our staff includes registered California state professional civil engineers and geologists. With regard to company certification, Aqua Science Engineers holds a California Class "A" Contractors License (#487000) with C57 and HAZ classifications. Our C57 certification allows us to install groundwater monitoring wells. The HAZ designation refers to our Hazardous Substance Removal and Remedial Actions Certification.

ASE proposes installing one (1) groundwater monitoring well downgradient of the former underground fuel storage tanks. In addition, three (3) soil borings with "grab" groundwater samples will be placed in other potential downgradient locations. The groundwater flow direction for this assessment is assumed to be west to southwest which was in agreement with information provided by Ms. Eva Chu of the ACHCSA.

#### SCOPE OF WORK

- 1) Prepare a workplan and a health and safety plan for approval by ACHCSA.
- 2) Obtain an Alameda County Flood Control and Water Conservation District (Zone 7) well construction permit and a City of Oakland excavation permit prior to drilling operations at the site.
- 3) Notify Underground Service Alert (USA) to have all known public utility lines marked in the site vicinity.
- 4) Drill cores through the cement floor of the building and/or sidewalk at the site to allow for access to the subsurface.
- 5) Drill four soil borings to approximately 30-feet below ground surface in the assumed downgradient direction of the former tanks. These borings will be drilled with a limited access drill rig since the borings are located either inside the building or below overhead utility lines.
- 6) Collect soil samples at least every five feet from the borings and field screen the samples for volatile compounds with an organic vapor meter (OVM). If significant contamination appears to be present based on OVM readings, hydrocarbon odors or discoloration, the soil samples will be analyzed as required. The cost of analyses for soil samples is not included in the fixed cost below. The analyses will be charged at the rates indicated below in additional costs.
- 7) Install a 2-inch diameter groundwater monitoring well in one of the borings described above.
- 8) Develop the well and collect groundwater samples for analyses.

- 9) Collect "grab" groundwater samples from the borings in which a well was not installed. These samples will be collected using a Powerpunch or similar type method of collecting "grab" groundwater samples.
- 10) Analyze the groundwater samples at a CAL-EPA certified environmental laboratory for TPH-G by modified EPA Method 5030/8015, TPH-D by modified EPA Method 3510/8015, total and hydrocarbon O&G by Standard Method 5520, BTEX by EPA Method 8020 and dissolved lead.
- 11) Soil cuttings and groundwater generated during drilling and well sampling procedures will be drummed and remain on site for future handling by the client. Handling/disposal of such material is excluded from this proposal. ASE will provide you with a cost for disposal of this material once the extent of contamination is known.
- 12) Prepare a report detailing the methods and findings of the soil and groundwater assessment. This report will be submitted under the seal of either a California registered geologist or engineer.

COSTS

All items as described above

\$7,125.00

+ 682

Additional Costs:

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If additional soil samples are to be analyzed, the costs will be as follows:

TPH-G/BTEX by modified EPA Method 5030/8015	\$75.00	x 4	300
TPH-D by modified EPA Method 3550/8015 or 3510/8015	\$90.00	x 4	360
Total and hydrocarbon oil and grease by Standard Method 5520	\$75.00	x 4	300
Total or dissolved lead	\$22.00	x 1	22

After the construction of the well, the ACHCSA will require quarterly groundwater monitoring at the site for a minimum of three quarters. The cost of this sampling will be \$875.00 per quarter. 682

PAYMENT

The payment schedule for services rendered will be as follows: 30% of the fixed proposal amount will be due upon acceptance of this agreement; 60% of the fixed proposal amount will be due upon completion of the field

activities; and the final 10% of the fixed proposal amount will be due upon clients receipt of final report. Client agrees to pay interest at the rate of one-and-one-half percent (1.5%) per month on any and all balances not paid by due date. Client also agrees to pay all court costs, attorney fees, and other expenses incurred by bidder in the event Client fails to make payment(s) when due and bidder undertakes litigation to enforce collections.

## LIMITATIONS

The purpose of the proposed assessment is to identify and characterize possible subsurface soil and groundwater contamination on the subject site. Because the extent of soil and/or groundwater contamination is currently not known, it is not possible to guarantee a complete definition of the entire extent of contamination. Additional drilling, soil and groundwater sampling, and chemical analysis may be required by the regulatory agencies to complete this assessment. The performance of any additional services above and beyond those detailed in the above-referenced scopes of work will be charged as additional costs pending prior approval of the additional services by the client.

The price of this assessment is based on soil conditions as they appear on boring logs provided by the client. If unusual drilling conditions are encountered or if groundwater is deeper than 20-feet below ground surface, ASE reserves the right to consider these conditions beyond the scope of work stated above and additional charges may apply.

This proposal does not include costs associated with disposing of contaminated soil or water produced during this project (drill cuttings, well purge water, steam-cleaning rinsate, etc.). ASE can provide you with a cost to dispose of these materials once the extent of contamination is known.

ASE will contact Underground Service Alert to mark all public utilities on public property. ASE requires that all private utilities be marked by the property owner. ASE will not be responsible for damage to any unmarked utilities during drilling or other work related to this project.

## GENERAL TERMS

We at Aqua Science Engineers, Inc. and its' subcontractors can assure you that this job will be executed in a responsible and timely fashion consistent with the needs and purposes of the project. Any down time or delays due to scope of work changes, or costs associated with damage to any

unmarked utilities shall be charged out Aqua Science Engineers' hourly rates.

The Scope of Work presented in this proposal is based on what ASE perceives will be acceptable to the local regulatory agencies.

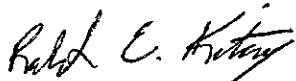
Should you wish to have this work proceed as outlined above, please sign the attached "Authorization to Proceed" and Aqua Science Engineers will contact the client upon receipt to determine a firm start date. This proposal constitutes a firm offer to conduct the scope of services herein. One copy of this Authorization to Proceed document is to be signed and returned to Aqua Science Engineers prior to commencement of work.

THIS QUOTATION IS VALID FOR A PERIOD OF THIRTY (30) DAYS FROM DATE OF THIS LETTER.

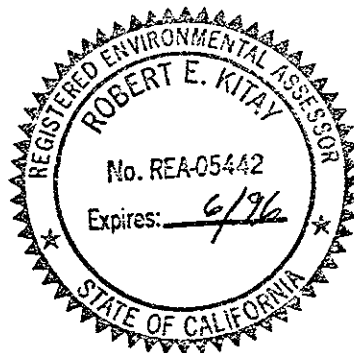
Aqua Science Engineers appreciates the opportunity to provide you with this quotation. We look forward to further assisting you with your environmental needs. Should you have any questions or comments, please feel free call us at (510) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



Robert E. Kitay, R.E.A.  
Project Geologist





**Aqua Science Engineers, Inc.**  
2411 Old Crow Canyon Road, #4  
San Ramon, CA 94583  
(510) 820-9391

**AUTHORIZATION TO PROCEED**

Date: July 25, 1995

Client: Ms. Lynn Nightingale  
102 Flying Cloud Isle  
Foster City, CA 94404

I, \_\_\_\_\_, have read and understand all of the terms and conditions that are included as a part of this proposal. I authorize this work in accordance to the scope of work as stated in ASE proposal 95-175.

For Client: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**Aqua Science Engineers, Inc.**

Name: Robert Kitey  
Signature: Robert E. Kitey  
Date: 7-25-95