

November 24, 1992
SCI 727.001

Ms. Susan Hugo
Hazardous Materials Specialist
Alameda County Health Care Services Agency
80 Swan Way, Suite 200
Oakland, California 94612

**Work Plan Addendum
Soil Remediation
722 Folger Avenue
Berkeley, California**

Dear Ms. Hugo:

Presented herein is an addendum to the Work Plan dated March 5, 1992, prepared by Subsurface Consultants, Inc. (SCI) for the referenced fuel leak site. The original Work Plan outlined drilling, well installation, soil bioremediation and soil excavation services. To date 7 borings have been drilled, 4 wells have been installed and 350 cubic yards of soil have been bioremediated. SCI's investigation was recorded in a report dated August 7, 1992. This addendum outlines the next phase of site work.

Background

Excavation activities have generated 350 cubic yards of diesel contaminated soils. It appears that contaminated soil is still present within a thin layer at the groundwater surface.

The contaminated soils generated to date have been bioremediated on-site. Bioremediation has successfully reduced diesel levels to an average concentration of less than 10 mg/kg. The ACHCSA has approved the use of the treated soil as on-site fill.

Groundwater downgradient (to the west) of the previous diesel tank has been impacted. The plume has migrated at least 50 feet toward the west. Plume concentrations decrease toward the north, indicating that it may not impact the Ashby right-of-way. However, the plume may extend beneath Folger Avenue to the south, and the adjacent property to the east.

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Soil Remediation

Soil remediation will continue with as planned with the physical removal and biotreatment of the contaminated soils. The excavation will be extended to the practical limits (2 to 5 feet) to the north, east and south. The western extension will be determined in the field. We estimate that effected soils within the area shown on the attached Site Plan will be removed. Sidewall samples will be obtained and analyzed as specified in the March 5, 1992 Work Plan to document concentrations at the excavation limits. Apparently clean soils will be stockpiled separately from apparently diesel effected soils. The apparently clean soils will be sampled and analyzed for diesel and BTEX at a rate of one sample for every 20 cubic yards. Diesel effected soils will be biotreated on-site to reduce contaminant levels to levels acceptable by the ACHCSA for reuse on-site.

Well Abandonment

Proposed excavation activities may extend beyond well MW-4. Well MW-4 will be abandoned in accordance with Alameda County Flood Control and Water Conservation District guidelines if necessary. In general, the well materials will be removed by drilling and the resulting borehole will be filled with grout.

Well Installation

Depending on the extent of overexcavation it may be necessary to install additional wells at the site. Well installation, development and sampling protocol will be as presented in the March 5, 1992 Work Plan. Proposed well locations are shown on the attached Site Plan.

Groundwater Monitoring

The groundwater monitoring program presently underway will be continued. The next sampling event will be performed once the site is restored and additional wells have been installed. We anticipate that the event will be performed in March 1993. Letter reports will be submitted to the ACHCSA and Regional Water Quality Control Board following each event.

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Schedule

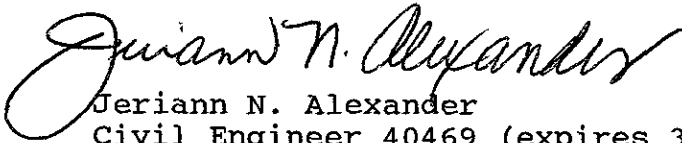
Site work will be performed in phases. An approximate schedule is presented below.

Over-excavation	December 1992
Partial Backfilling	December 1992
Bioremediation	Dec 1992-Feb 1993
Completion of Backfilling	March 1993
Well Installation	March 1993
3rd Quarter Sampling Event	March 1993
Soil Remediation Report	April 1993

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.



Jeriann N. Alexander
Civil Engineer 40469 (expires 3/31/95)

JNA:RWR:egh

cc: Mr. Dante Sambajon
Coulter Steel & Forge Company