

SCS ENGINEERS

January 31, 1990
File No. 0389058.00

Mr. Robert P. Gates
Erskine & Tulley
Attorney for Mike Roberts Color Productions
80 Market Street
San Francisco, California 94104

Subject: Remediation Actions Proposal
6707 Bay Street, Emeryville, California

Dear Mr. Gates:

SCS Engineers is pleased to offer this proposal to conduct remediation engineering actions for Mike Roberts Color Productions at a site at 6707 Bay Street, Emeryville, California. This letter contains a description of the work proposed and an approximate cost estimate to complete the remediation action.

Based on the report issued to you on January 30, 1990, the concentrations of MIBK and allied substances in the groundwater exceed the State of California action levels.

Remediation of the groundwater in the front portion of the building, the southeastern corner, would utilize the existing well MW-8 (which has the area of highest concentrations) for the withdrawal well. A down hole pump would be installed and the pump fluid would be treated in an activated carbon bed container. The discharged water is expected to be below all action levels and the disposal would go

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to a sanitary sewer. Installation costs with initial testing would be expected to be approximately \$24,000. Sampling and analysis costs would be approximately \$10,400 total, which is \$400 a week for a period of twenty-six weeks, i.e., six months. The pumping system for removal of the contaminants is an air rejection system, so electrical power would be required. The land owner or property tenant, whichever, would be responsible for all utilities, space for the remediation system which requires approximately a 25 x 25 feet area, and fencing. There is fencing already on site, and it would appear to me that fencing is adequate. The area should be secured.

If the carbon system is to be located more than 5' away from the supply well, and in this case it will be, SCS will be responsible for trenching a cover.

The same type of system would be utilized at either MW-5 or MW-7 in the rear or southwestern portion of the property where we believe contamination is migrating from off-site. The basis for using one well or the other, is going to depend upon a second analysis taken from those two wells, to find out which the best system would be. This is going to be based on the concentrations of benzene found in the groundwater, and that is the determining factor. All of the requirements for the MW-8 system will be the same for the MW-7/MW-5 remediation system.

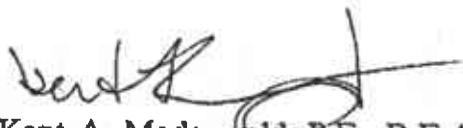
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The final portion of the remediation will be a vapor extraction system, which will also be a system utilizing a carbon filtration operation. We expect that it will take approximately six probes and a manifest. The operation time we suspect will be approximately six months for removing a sufficient amount of methyl isobutyl ketone (MIBK) from the soil, or to get the soil back down to a nondetectable concentration of MIBK. It may even zero out. The approximate cost of this system will be—with engineering design analysis, etc., is about \$20,000.

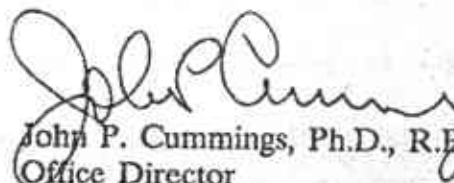
The total estimated costs for completing the remediation, engineering, placement and report program at 6707 Bay Street in Emeryville, is approximately \$90,000 total, and should take between six and eight months from the signing of the contract or change order.

If there are any questions, please call either Kent Madenwald or myself at (415) 829-0661.

Sincerely,



Kent A. Madenwald, P.E., R.E.A., R.E.P.
Project Manager
SCS Engineers



John P. Cummings, Ph.D., R.E.A., R.E.P.
Office Director
SCS Engineers

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