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MARKETING DEPARTMENT

ENVIRONMENTAL ENGINEERING

G. D. GIBSON
SENIOR ENVIRONMENTAL ENGINEER

June 28, 1990

Exxon RAS 7-3006
720 High Street
Oakland, California

Mr. Larry Seto
Alameda County Environmental Health Department
Hazardous Materials Division
80 Swan Way, Suite 200
Oakland, California 94621

Dear Mr. Seto:

Attached for your review and comment is the work plan for soil sample collection for the proposed new tank pit at the above referenced site in the City of Oakland. This report is by Applied GeoSystems of Fremont, California.

Should you have any comments or concerns please contact me at (415) 246-8768. Thank you.

Sincerely,

Gary D. Gibson

GDG:vv
1260E
Attachments

c - w/attachment:
Mr. V. Chu
Mr. L. Feldman - San Francisco Bay Region Water Quality Control Board

w/o attachment:
Mr. P. J. Brininstool
Ms. J. E. Folger
Mr. J. R. Hastings
Mr. J. K. Hunter
Mr. L. W. Lindeen
Mr. D. R. Little
Mr. R. C. Witham - Applied GeoSystems

**Applied GeoSystems** 43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

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June 26, 1990
AGS 87042-8W

246-8768

Mr. Gary D. Gibson
Exxon Company U.S.A.
P.O. Box 4032
2300 Clayton Road
Concord, California 94520

Subject: Letter work plan for sampling of soil from the new tank pit at Exxon Station No. 7-3006, 720 High Street, Oakland, California.

Mr. Gibson:

As requested, Applied GeoSystems (AGS) has prepared this letter work plan for sampling of soil from the new underground storage tank pit at Exxon Station No. 7-3006. We understand that the new pit will be excavated in the northern part of the property by the property owner's contractor.

At Exxon's request, AGS plans to perform the following tasks:

- Observe the excavation of the new tank pit area, and screen soil with an organic vapor meter.

Sample every 20 Sq. Ft. on walls & bottom

- Collect an estimated four soil samples from the walls of the pit to evaluate the extent of hydrocarbons. Each sample will be analyzed for total petroleum hydrocarbons as gasoline (TPHg) and as diesel (TPHd) by Environmental Protection Agency (EPA) modified Method 8015, and for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020.

- Collect four soil samples for every 50 cubic yards of excavated soil. Each set of four samples will be composited in the laboratory and analyzed for TPHg, TPHd, and BTEX using the previously mentioned methods, and for total lead by EPA Method 7240.

- Collect a sample of ground water from the excavation, if necessary. The sample will be analyzed for TPHg, TPHd, and BTEX using EPA Methods 8015 and 602.

Applied GeoSystems
43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906
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# LETTER WORK PLAN
# SUPPLEMENTAL SUBSURFACE ENVIRONMENTAL INVESTIGATION
at
Exxon Station 7-3006
720 High Street
Oakland, California

- If necessary, pump accumulated ground-water from the pit either into a poly tank for temporary storage or directly into a vacuum truck. The purged water will be removed from the site by a licensed disposal contractor.

- Evaluate field and laboratory data, and prepare a letter report describing procedures and results.

Field work will be conducted in accordance with the Applied GeoSystems Site Safety Plan and the attached Field Procedures.

Please call if you have questions.

Sincerely,
Applied GeoSystems

Jo Ellen Kuszmaul

JoEllen Kuszmaul
Project Geologist

Joan E Tiernan

Joan E. Tiernan
Registered Civil Engineer No. 044600

Attachments: Field Procedures

## FIELD PROCEDURES

Work described in this work plan will be performed according to the following operating procedures.

### Preparation for Field Work

Field work performed at the site by AGS personnel will be conducted in accordance with the AGS Site Safety Plan No. 87042-6S (July 8, 1989). This plan describes the safety requirements for the environmental remediation project at the site. The site safety plan is applicable to personnel and subcontractors of AGS. Personnel and subcontractors of AGS scheduled to work at the site will be briefed on the contents of the site safety plan before work begins. A copy of the plan will be kept at the site and will be available for reference by appropriate parties during the site work.

Before excavation, Underground Service Alert will be contacted to delineate public utility lines.

### Collection of Soil Samples from Excavation

Soil samples will be collected by driving clean brass sleeves into the excavator bucket after removing the surficial soil in the bucket. The sleeves will be sealed with aluminum foil, caps, and aluminized duct tape, before being placed in iced storage. The sampler will initiate a Chain of Custody Record and it will accompany the samples to the laboratory. A copy of the Chain of Custody Record will be included in the final report.

### Collection of Soil Samples from Stockpiled Soil

With a field vapor detector, instrument readings will be taken at a depth of 1 to 2 feet to evaluate high, low, and average hydrocarbon concentrations in the soil stockpile. Samples to be composited in the laboratory will be collected by taking one sample from the "high" reading area and three samples from the "average" reading area. This is accomplished by driving clean brass sleeves into the soil at the 1- to 2-foot sampling depth. The sleeves will be sealed with aluminum foil, plastic caps, and aluminized duct tape, before being placed in iced storage. A Chain of Custody Record will be initiated in the field. A copy of the record will be included in the final report.

Collection of Ground-Water Sample from the Pit

A ground-water sample will be collected from the pit using a clean Teflon bailer. The sample will be slowly decanted into clean, 40-milliliter sample containers. Hydrochloric acid will be added as a preservative, and the containers sealed with Teflon-lined caps. The samples will be transported to a certified laboratory following chain-of-custody procedures.