

GRIBI Associates

Geological and Environmental Consulting Services

FACSIMILE TRANSMITTAL

Date: January 5, 1999

To: EVA CHU
ALAMEDA COUNTY
ENVIRONMENTAL HEALTH

Fax No.: (510)337-9335

From: JIM GRIBI
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Number of pages, including this transmittal page: 6

Eva,

Per our phone conversation earlier today, attached please find the workplan to conduct a soil boring investigation at the Albany Fire Station UST site. Please give me a call if you have questions, comments, or need additional info.

Thanks!

Jim

GRIBI Associates*Geological and Environmental Consulting Services*

January 5, 1999

Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Attention: Eva Chu

Subject: Workplan to Conduct Soil Boring Investigation
Albany Fire Station UST Site
1001 Marin Avenue, Albany, California
GA Project No. 148-01-01

Dear Ms. Chu:

Gribi Associates is pleased to submit this workplan on behalf of the City of Albany to drill and sample two soil borings immediately adjacent to an unleaded gasoline underground storage tank (UST) formerly located at the Albany Fire Station at 1001 Marin Avenue in Albany, California (see Figure 1 and Figure 2). The purpose of the proposed soil boring investigation will be to assess soil and groundwater quality adjacent to the former UST in order to address regulatory site closure.

Background

One 1,000-gallon diesel UST and one 10,000-gallon unleaded gasoline UST were removed from separate locations at the project site by HK2, Inc./Semco in April 1998. Two soil samples collected beneath the removed diesel UST at a depth of about nine feet below surface grade contained 4 milligrams per kilogram (mg/kg) and 110 mg/kg of Total Petroleum Hydrocarbons as Diesel (TPH-D), with no detectable levels of BTEX constituents. The four-point composite soil sample from the diesel UST removal soil stockpile contained 3 mg/kg of TPH-D, with no detectable levels of BTEX constituents.

Two soil samples collected beneath the removed unleaded gasoline UST at a depth of about 11 feet below surface grade contained no detectable levels of Total Petroleum Hydrocarbons as Gasoline (TPH-G), with low to nondetectable levels of BTEX constituents and Methyl-t-butyl Ether (MTBE). One soil sample collected beneath the removed fuel dispenser at a depth of about two feet contained 3 mg/kg of TPH-G, with low to nondetectable levels of BTEX constituents and MTBE. One grab groundwater sample collected from the UST excavation cavity following tank removal contained 4,000 micrograms per liter (ug/l) of TPH-G, 70 ug/l of Benzene, 330 ug/l of Toluene, 90 ug/l of Ethylbenzene, 260 ug/l of Xylenes, and 380 ug/l of MTBE.

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Project Approach

Based on our recent conversations with Ms. Eva Chu of Alameda County Department of Environmental Health, on a review of available site documents, and on a brief site visit, we recommend drilling and sampling two investigative soil borings, to include one boring located immediately west-southwest in the expected downgradient groundwater flow direction from the former unleaded gasoline UST, and one boring located between the former UST excavation cavity and the adjacent Albany Fire Station building to the south. These borings will be drilled and sampled using hand augering equipment. It is our hope that soil and groundwater sampling from the two proposed borings will provide an adequate basis to address regulatory closure of this site.

Note that if field screening results indicate significant hydrocarbon impacts, then Gribi Associates recommends installing a temporary monitoring well in one of the borings to provide a better assessment of true groundwater quality.

Scope of Work

Based on the above project approach, Gribi Associates proposes to conduct the following tasks. All activities will be conducted in accordance with applicable State and Federal guidelines and statutes.

Task 1 Conduct prefield activities. Gribi Associates will: (1) Obtain a drilling permit from Alameda County Department of Public Works; (2) Mark the proposed boring locations with white paint; and (3) Notify Underground Services Alert (USA) at least 48 hours prior to drilling.

Task 2 Conduct drilling and sampling activities. Gribi Associates will: (1) Drill two soil borings immediately west-southwest and south from the former UST excavation cavity to about 12 feet below surface grade using hand auger equipment; (2) Collect one soil sample and one grab groundwater sample from each boring; and (3) Grout each boring to match existing surface grade.

Each soil sample will be collected in a brass sampling tube and will be preserved in accordance with standard sampling protocols. Each grab groundwater sample will be collected as follows: (1) 1-1/4-inch diameter well casing will be placed in the boring; (2) Two to three feet of filter sand will be placed around the well casing to help filter out silt; (3) The well casing will be purged of at least one well volume using a clean PVC bailer; (4) Groundwater will be poured directly from the bailer into laboratory-supplied containers; and (5) Each sample container will be preserved in accordance with standard sampling protocols.

If field screening results warrant, then Gribi Associates will deepen one of the hand auger borings to about 13 feet in depth and install a temporary monitoring well in the boring. The

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well will be installed using 1-1/4-inch diameter Schedule 40 PVC casing as follows: (1) 0.020 inch slotted well screen will be placed from 15 feet to 5 feet in depth; (2) Filter sand will be placed around the well casing to about 4 feet in depth; (3) Bentonite pellets will be placed around the well casing from 4 feet to 3 feet in depth; and (4) The remaining annulus will be grouted with a cement slurry. The top of the well will be enclosed in a traffic-rated well box set in concrete slightly above grade.

Task 3 Conduct laboratory analyses. Gribi Associates will analyze two soil samples and two grab groundwater samples for the following parameters

USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G) ✓
USEPA 8020/602 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) ✓
USEPA 8020/602 Methyl-t-butyl Ether (MTBE) ✓

All analyses will be conducted by a California-certified analytical laboratory with two-week turn around on lab results. ~~Positive MTBE results will be confirmed using USEPA Method 8270.~~

Task 4 Prepare report of findings. Gribi Associates will prepare a brief letter report for submittal to Alameda County Department of Environmental Health which will describe all investigative activities and provide results of the investigation. If results indicate no significant release, then this report will also request regulatory site closure.

Project Schedule

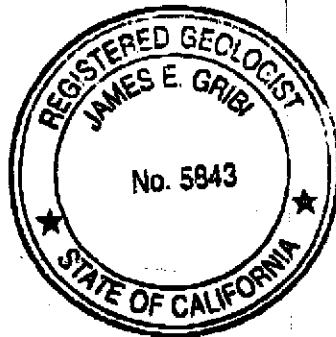
Gribi Associates is prepared to begin project activities immediately. Based on our understanding of the project, we expect to complete the project scope of work within about six weeks after receiving workplan approval.

We appreciate the opportunity to present this workplan for your review. Please call if you have questions or require additional information. We look forward to working with you on this important project.

Very truly yours,



James E. Gribi
Registered Geologist
California No. 5843



JEG/et

GA-26/Albany1 wpl

GRI BI Associates



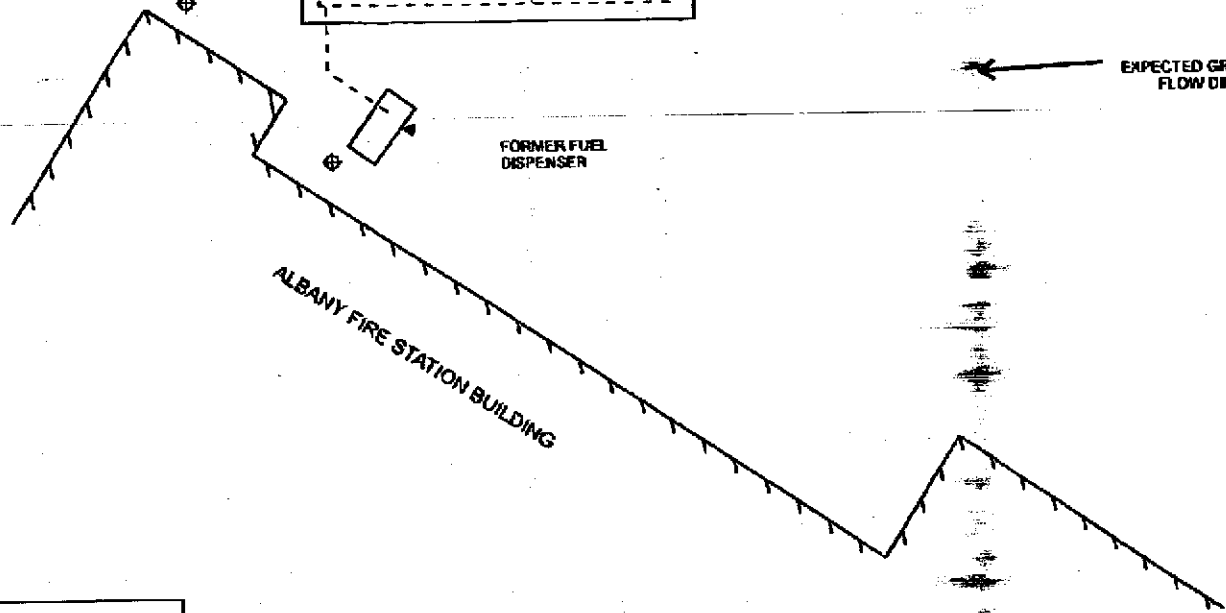
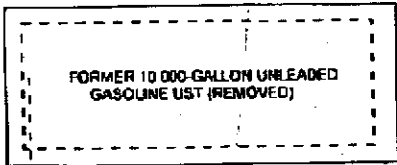
TOPOGRAPHY FROM USGS RICHMOND
7.5-MINUTE QUADRANGLE MAP, (TOPOI 1987)



DESIGNED BY	CHECKED BY:	SITE VICINITY MAP ALBANY FIRE STATION UST SITE 1001 MARIN AVENUE ALBANY, CALIFORNIA	DATE: 01/05/99	FIGURE: 1
DRAWN BY JG	SCALE: 1:24,000		GRIBI Associates	
PROJECT NO 101-02-01				

BUCHANAN STREET

CURB



← EXPECTED GROUNDWATER FLOW DIRECTION

LEGEND

⊕ - PROPOSED SOIL BORING LOCATION

0 20 40
APPROXIMATE SCALE IN FEET

DESIGNED BY:	CHECKED BY:
DRAWN BY: JG	SCALE:
PROJECT NO: 145-01-01	

PROPOSED BORING LOCATION
 ALBANY FIRE STATION UST SITE
 1001 MARIN AVENUE
 ALBANY, CALIFORNIA

DATE: 01/05/99	FIGURE: 2
GRIBI Associates	