

October 1, 1998

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
660 San Pablo Avenue UST Site
Albany, California
GA Project No. 146-01-01

Water sample should be collected deeper, such as at least 5' below 1st encountered GW to ensure representative sampling for HNO₃

look for creeks (Carrito, Marin, Cosumnes, etc.) for possible influence to GW flow direction closest to Carrito Creek. → ^{so} north boring may be best for water sample. See if he knows if creek is losing or gaining.

Dear Ms. Chu;

Gribi Associates is pleased to submit this workplan on behalf of Mr. Ralph Trueblood to drill and sample three soil borings immediately adjacent to a former waste oil underground storage tank (UST) located in the south side of the project site building in Albany, California (see Figure 1). The purpose of 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 300-gallon waste oil UST was removed from the site by Semco in February 1997. One soil sample collected beneath the removed UST at a depth of six feet below surface contained low levels of gasoline and diesel constituents, 550 milligrams per kilogram (mg/kg) of Total Oil and Grease, 0.030 mg/kg of Tetrachloroethene (PCE), 1.2 mg/kg of Phenanthrene, 1.5 mg/kg of Fluoranthene, and 2.0 mg/kg of Pyrene.

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 three investigative soil borings immediately adjacent to the former UST, to include borings on the north, east, and south sides of the former UST excavation cavity (see Figure 2). We recommend using hand auger equipment to drill these borings. The hand auger, while slower than mechanical drilling methods, is generally less expensive when drilling a small number of shallow borings.

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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 boring locations with white paint and notify Underground Services Alert (USA) at least 48 hours prior to drilling; and (3) Contract a licensed concrete cutter to core the concrete slab.

Task 2 Conduct drilling and sampling activities. Gribi Associates will: (1) Drill three borings adjacent to the south, east, and north sides of the former UST excavation cavity to about ten feet in depth using hand auger equipment; (2) Collect one soil sample from each boring, and a groundwater sample from the north boring (if water is present); and (3) Grout each boring to match existing surface grade using a cement slurry. Soil and grab groundwater samples will be collected in accordance with standard sampling protocols. Hand auger equipment will be thoroughly cleaned between each boring by triple-rinsed first with water, then with dilute tri-sodium phosphate solution, and finally with distilled water.

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

USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G)
USEPA 8020/602 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
USEPA 8015M Total Petroleum Hydrocarbons as Diesel/Motor Oil (TPH-D/MO)
Standard Method 5520F Total Oil and Grease (TOG)

In addition, one soil sample and one water sample will be selected for the following analysis:

USEPA 601/8010 Halogenated Volatile Organics (HVOCs)
USEPA 8270/625 Semi-Volatile Organic Compounds (SVOCs)

All analyses will be conducted by a California-certified analytical laboratory with two-week turn around on lab results.

Task 4 Prepare report of findings. Gribi Associates will prepare a brief letter report for submittal to Alameda County Health Agency 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.

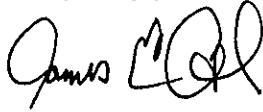
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Project Schedule

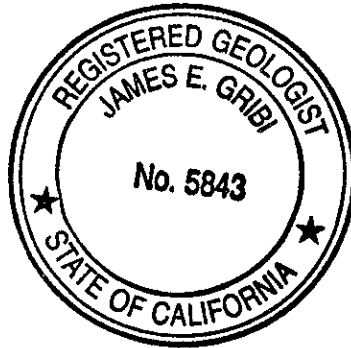
Gribi Associates is prepared to begin project activities immediately. Based on our understanding of the project, we expect to complete the project scope of work within four to six weeks after receiving workplan approval.

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,

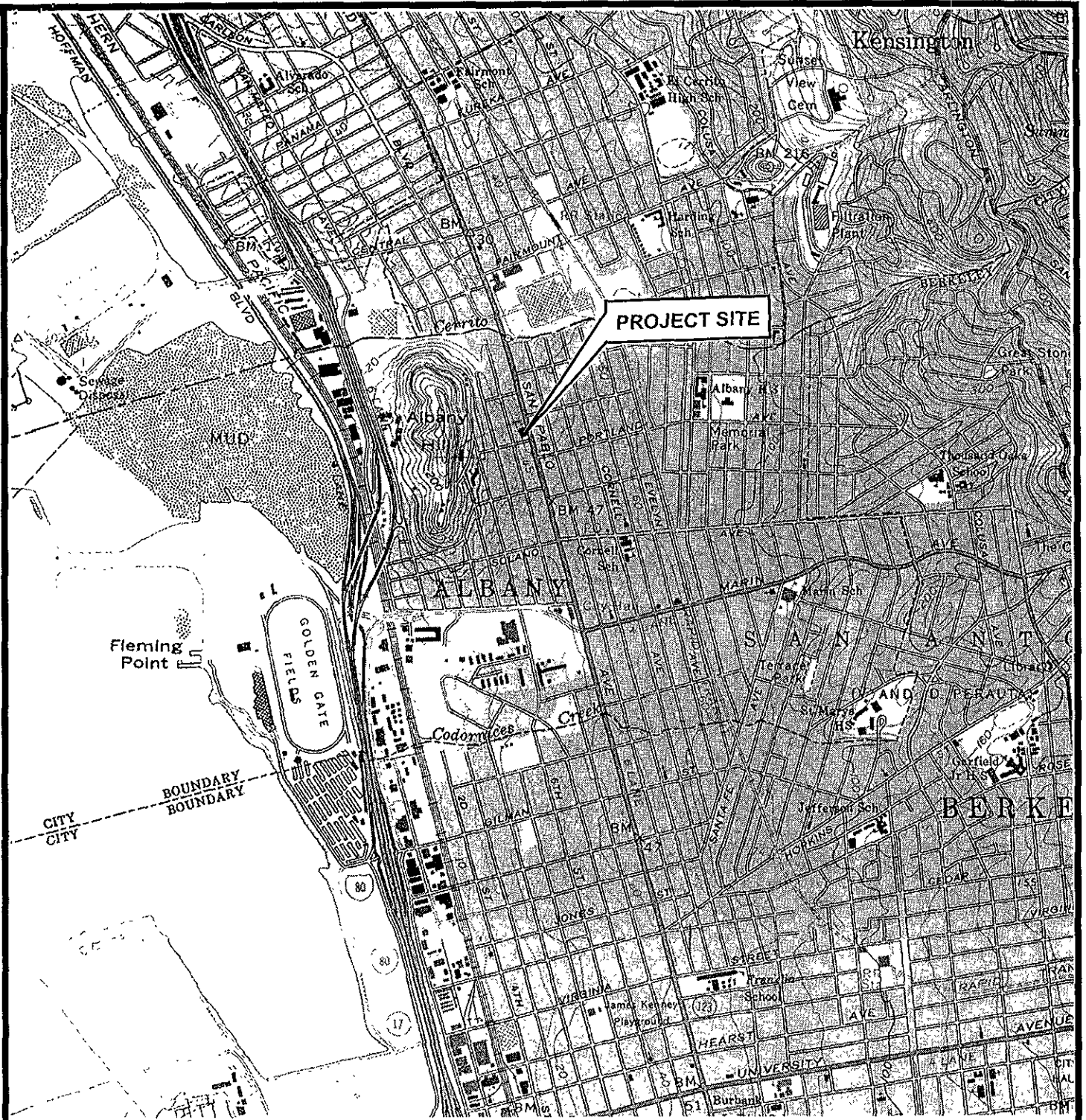


James E. Gribi
Registered Geologist
California No. 5843

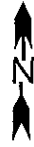


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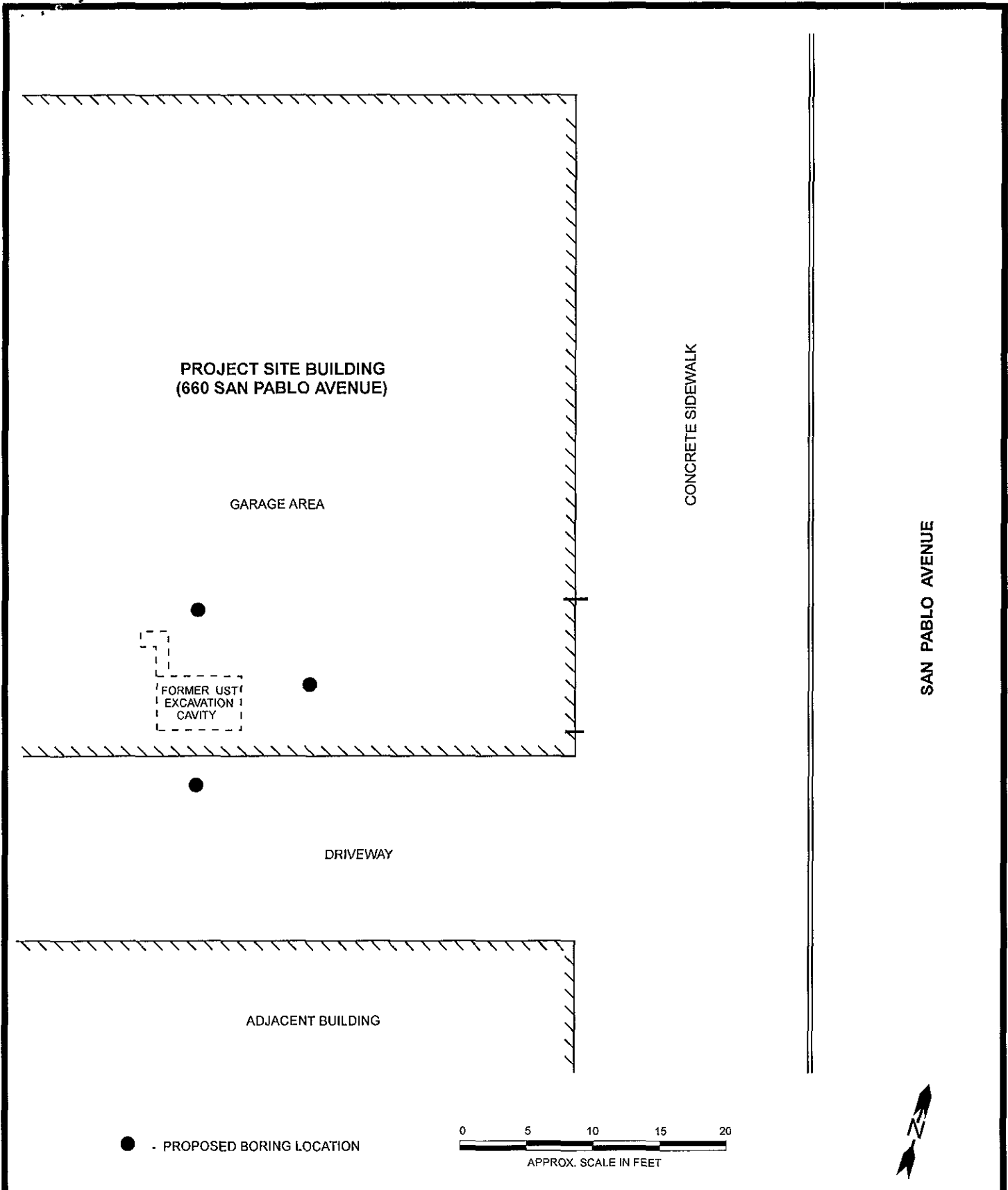
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TOPOGRAPHY FROM USGS RICHMOND, CALIFORNIA
7.5-MINUTE QUADRANGLE MAPS, (TOPO' 1997).



DESIGNED BY:	CHECKED BY:	SITE VICINITY MAP	DATE: 10/01/98	FIGURE: 1
DRAWN BY: JG	SCALE: 1:24,000		GRIBI Associates	
PROJECT NO: 137-01-01		660 SAN PABLO AVENUE UST SITE ALBANY, CALIFORNIA		



DESIGNED BY:	CHECKED BY:	PROPOSED BORING LOCATIONS 660 SAN PABLO AVENUE UST SITE ALBANY, CALIFORNIA	DATE: 10/01/98	FIGURE: 2
DRAWN BY: JG	SCALE:		GRIBI Associates	
PROJECT NO: 146-01-01				