

March 31, 1993



Ms. Juliet Shin Alameda County Health Care Services Agency Department of Environmental Health UST Local Oversite Program 80 Swan Way, Room 200 Oakland, CA 94621

RE: Phase II Subsurface Investigation 2425 Encinal, Alameda, CA STID 3952

Dear Ms. Shin:

Enclosed, please find the workplan for Phase II Subsurface Investigation to further delineate the extent of impacted soil and groundwater at the above referenced site.

If you have any question regarding this workplan, please do not hesitate to contact me.

Sincerely,

Misty Kaltreider

Geologist

cc: Mr. Richard Hiett - Regional Water Quality Control Board

Mr. Steve Chrissanthos - Alameda Cellars

Encl.



PHASE II SUBSURFACE INVESTIGATION
ALAMEDA CELLARS
2425 ENCINAL AVENUE
ALAMEDA, CALIFORNIA

Prepared for:

Mr. Steve Chrissanthos Alameda Cellars 1702 Lincoln Avenue Alameda, California 94501

March 1993

Prepared by:

Misty Kaltreider

Geologist

Reviewed by:

Registered Geol

ELIZABETH HERBERT



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PHASE II SUBSURFACE INVESTIGATION ALAMEDA CELLARS - 2425 ENCINAL AVENUE

1.0 INTRODUCTION

ACC Environmental Consultants, Inc. ("ACC") has prepared this work plan for Phase II subsurface investigation for 2425 Encinal Avenue, Alameda, California (Figure 1). The property is owned by Alameda Cellars. The scope and purpose of the project is to further evaluate the extent of impacted soil and groundwater by drilling using a pneumatic precision sampling tool.

2.0 BACKGROUND

In March 1990, two 10,000 gallon underground gasoline storage tanks were removed from 2425 Encinal Avenue. Up to 1,500 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg) were reported in samples collected from the walls of the tank excavation.

ACC Environmental Consultants Inc. conducted a preliminary site investigation in December of 1992 including installation of three monitoring wells. Analysis of soil samples collected from a boring drilled on-site indicated up to 1,365 ppm of TPHg and 18.9 ppm of benzene. Analysis of groundwater samples collected from the on-site wells indicated up to 5,680 parts per billion (ppb) of TPHg and 1,560 ppb benzene.

Per request of Alameda County Health Care Services - Hazardous Materials Division, further delineation of the soil and groundwater impacted with hydrocarbons is requested.

3.0 SCOPE OF WORK

ACC will drill six to eight borings both on and off-site using a pneumatic precision sampling tool. The borings will be drilled in locations on-site and in adjacent street areas which are anticipated to provide the most information on lateral and vertical extent of contamination. Figure 2 shows the proposed boring locations.

During drilling, undisturbed soil samples will be obtained for chemical analysis and geotechnical classification at five-foot intervals, distinct lithologic changes and at the soil/groundwater interface. Sampling will begin at five feet below grade and continue to the bottom of the boring (see Appendix A, "Soil Sampling in Boreholes and During Construction of Monitoring Wells").

Soil samples will be submitted to a CAL-EPA certified accredited analytical testing laboratory for analysis of Total Petroleum Hydrocarbons as gasoline using EPA Modified Test Method 8015, and benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Test Method 8020.

4.0 DRILLING

Drilling permits will be obtained from the Alameda County Water Conservation and Flood Control District - Zone 7 prior to drilling and sampling activities. The locations of the proposed borings will be marked with white paint. The District, Alameda County Health Department-Environmental Health Division, and Underground Service Alert (USA) will be notified at least 48 hours prior to commencing work.

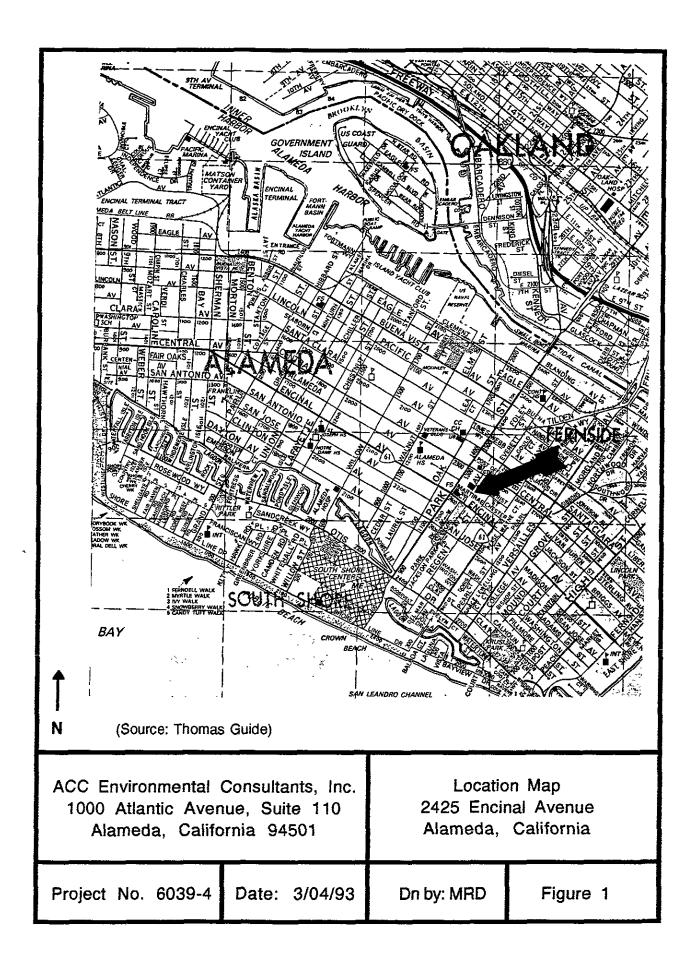
At least two soil samples collected from each boring will be analyzed. During drilling, cuttings will be placed in capped drums, labeled and left on-site pending the analytical results.

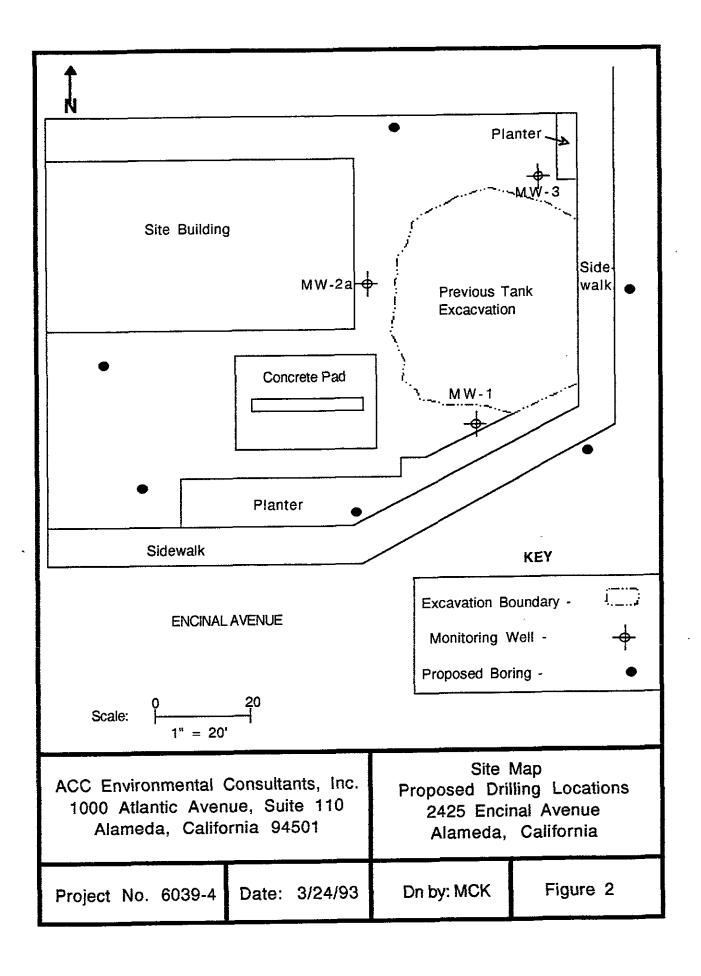
5.0 HEALTH AND SAFETY PLAN

A site health and safety plan which encompasses the proposed work at the site and complies with the requirements of 29 CFR Part 1910.120 is presented in Appendix B. The plan will be present on-site during drilling operations and will be stored at the office of ACC.

6.0 TECHNICAL REPORTS

A technical report discussing the drilling and sampling event at the site will be submitted to Alameda Cellars. Following review and acknowledgement, the report will be sent to Alameda County Health Service Agency and the Regional Water Quality Control Board. Additional reports detailing groundwater monitoring activities of the on-site wells and sampling results will be submitted on a quarterly basis thereafter.





APPENDIX A

SOIL SAMPLING IN BOREHOLES AND DURING CONSTRUCTION OF MONITORING WELLS

SOIL SAMPLING IN BOREHOLES AND DURING CONSTRUCTION OF MONITORING WELLS

U.S. Environmental Protection Agency standards serve as the foundation for all field sampling operations performed by ACC. EPA SW 846 is the primary publication from which procedures are derived. While some aspects of field and laboratory work may be delegated to the CAL EPA-Department of Toxic Substances Control (DTSC), the Bay Area Regional Water Quality Control Board, and the Health Services Agency - Department of Environmental Health establish the general and specific criteria for sampling.

SAMPLE INTERVALS

Undisturbed soil samples will be obtained for chemical analysis and geotechnical classification at five-foot intervals or at distinct lithologic changes, beginning at five feet below grade.

COLLECTION DEVICES

Samples will be collected using a 2-inch or 2.5-inch inside diameter Modified California Split Spoon Sampler containing three six-inch-long brass tubes or two three-inch-long tubes between two six-inch-long brass tubes. The sample collection device and tubes will be decontaminated before and after each use by steam cleaning or by an Alconox solution wash, tap water rinse and deionized water rinse. The sampler will be driven ahead of the auger using a 140-pound drop hammer. The average blow counts required to drive the sampler the last 12 inches will be recorded on the boring logs.

PRESERVATION AND HANDLING

After collection, sample tubes will be labeled, sealed at each end with Teflon sheeting and PVC end caps, placed in ziplock bags and stored in an ice filled cooler to be delivered under chain-of-custody to a State-certified laboratory by the next business day.

SOILS CLASSIFICATION

Soil exposed at the ends of each brass tube will be examined by a geologist for obvious signs of contamination and classified according to the Unified Soil Classification System. These observations will be recorded in the boring logs.

Selection of samples for laboratory analysis will be based primarily on headspace readings using a Photo-ionization device (PID) and position within the boring. In general, samples with headspace readings over 50 ppm or that have visual or olfactory indications of contamination will be submitted for analysis. One sample will also be selected from one or two sampling intervals below the apparent lower limit of contamination to obtain a "zero line" value. In addition, the sample closest to the depth of the storage tank invert will be submitted for analysis. If the water table is above the tank invert, the sample closest to the water table will

be selected.

SAMPLE LABELING AND CHAIN OF CUSTODY

Samples selected for analysis will be labeled with self-adhesive, preprinted labels indicating project name (or number), sample number, boring/well number, sample depth, date and time of sample collection, and required analyses. The same information will be recorded on the chain of custody.

APPENDIX B

SITE SPECIFIC HEALTH AND SAFETY PLAN



ACC

SITE SAFETY PLAN

A. GENERAL INFORMATION

Project Title: 2425 Encinal Avenue, Alameda Cellars
Project No.: 6039-4
Project Manager: Misty Kaltreider
ocation: 2425 Encinal Avenue, Alameda, California
Prepared by/date: Misty Kaltreider
Approved by/date:
Scope of Nork/Objective(s): Soil Borings
roposed Date of Field Activities:
Occumentation/Summary:
Overall Chemical Hazard: Serious [] Moderate [] Low [X] Unknown []
Overall Physical Hazard: Serious [] Moderate [X] Low [] Unknown []
B. SITE/WASTE CHARACTERISTICS
aste Types(s):
Liquid [X] Solid [X] Sludge [] Gas/Vapor []
haracteristics:
Flammable/ [] Volatile [X] Corrosive [] Acutely [] Ignitible Toxic
Explosive [] Reactive [] Carcinogen [] Radio- [] active
ther:

gasoline 300 ppm inhalation skin blisters, Characteristic dermal, nausea, central odor ingestion nervous system disorder				
Route of Acute Odor Compound PEL/TWA Exposure Symptoms Threshold/Desc.				
Chemical Hazard Evaluation:				
Modifications:				
Task 4.				
Task 3.				
`Task 2. Sampling D				
Task 1. Drilling D				
Physical Hazard Evaluation Anticipated Level of Protection				
List and Evaluate Hazards By Task (ie. sampling/drilling)				
C. HAZARD EVALUATION				
Site Currently in Operation: Yes [X] No []				
Estimated Volume of Chemicals/Waste: Unknown				
Locations of Chemicals/Waste: In soil				
Site History/Description and Unusual Features: Drilling and Sampling within the Vicinity of former Tank Excavations.				
Other: Hazards with Drilling				
Puncture [] Burn [] Cut [] Splash [] Noise []				
Overhead [] Confined Space [] Below Grade [] Trip/ [X] Fall				
Physical Hazards:				

;

D. SITE SAFETY AND WORK PLAN

Site Control: Attach map of the site.

Perimeter identified? [Y] Site secured? [Y] Work areas identified? [Y]

Zone(s) of contamination identified? [N]

Air Monitoring:

Gasoline	air	HNu	Continous - as needed
Contaminant of Interest	Type of Sample	Monitoring Equipment	Frequency of Sampling

Decontamination procedures and solutions:

Tri-sodium phosphate and water, triple rinsed

Special Site Equipment: (Sanitary facilities, lighting, etc)

None anticipated

Site Entry Procedures and Special Considerations

Underground Services Alert (USA) notified to avoid underground utilities

Work Limitations (time of day, weather conditions, etc.)

None anticipated

General Spill Control, if applicable: N/A

Investigation-Derived Material Disposal (expendables, cuttings, etc.)

Drum cuttings and rinsate water in covered, labeled 55-gallon DOT certified drums.

Sample Handling Procedures:

Soil samples collected in brass tubes, teflon tape and plastic end caps taped to each end. All samples will be placed in ice-filled coolers until pick-up by laboratory.

E. EMERGENCY INFORMATION

Ambulance 911

Hospital Emergency Room (510) 523-4357

Directions to Hospital (attach map) Alameda Hospital - 2070 Clinton Avenue.

Poison Control Center 911

Police 911

Fire Department 911

Laboratory ChromaLab Analytical

UPS/Fed. Express N/A

Client Contact Mr. Steve Chrissanthos (707) 522-2145

Site Contact Mr. Steve Chrissanthos (707) 522-2145

SITE RESOURCES

Water Supply Source On-site

Telephone On-site

Cellular Phone, if available ---

Other ---

EQUIPMENT CHECKLIST

Protective Gear	Quantity	Instrumentation	Quantity
Respirator	[]	02/Explosimeter	[]
Cartridges(type)	[]	PID (HNu)	[1]
Protective Suit type: Tyvek	[1]	Draeger Pump (tubes)	[]
Gloves (pr)	[1]	Heat Stress Monitor	[]
type: Nitrile	F13	Personal Sampling	[]
Steel Toed Boots	[1]	Pumps	

Hard Hat Safety Glasses Ear Plugs	[1] [1] [1]	First Aid Equipment First Aid Kit Portable eye wash Blood pressure monitor Fire extinguisher	[]
Miscellaneous	Quantity	Sampling Equipment	Quantity
Surveyor's tape Fiberglass tape Rope/string (100') Surveying Flags Camera/film Banner tape Coolers Teflon tape (roll) Bottle labels (set) Custody seals Chain of custody for Federal Express form Bubble wrap Trash bags Paper towels (roll) Detergent/TSP (box)	[1] [1] [] ms [1]	Liter bottles Half gallon bottles VOA bottles String Hand bailers Spoons Personal sampling pump supplies Shovel	[6] [6] [6] [3] [3] [] []
Buckets Brushes	[3] [2]		

SITE SAFETY REVIEW

General Information	n			
Date	Time	Project No. 6039-4		
Site Alameda Cel	lars			
Location 2425 Enc	inal Avenue, Alameda,	California		
Client Contact M	r. Steve Chrissanthos	(707) 522-2145		
Objectives Soil	Borings			
Types of Chemicals	s Anticipated Gasolin	e		
Topics Discussed				
•	Typical Hazards asso	iated with drilling		
Chemical Hazards				
Personal Protection	on Level D, modified	as required		
Decontamination Equipment to be decontaminated after each boring. Rinsate water will be drumed				
Special Site Cons	iderations None antic	ipated		
•		-		
	P	TTENDEES		
Name Printed		Signature		



HOSPITAL LOCATION MAP