



SITE HEALTH & SAFETY PLAN

PROJECT Emeryville Warehouse
DATE 11 February 1997

**Geomatrix Consultants, Inc.
100 Pine Street, 10th Floor
San Francisco, California 94111**

Geomatrix Consultants

SITE HEALTH & SAFETY PLAN

TABLE OF CONTENTS

	<u>Page</u>
1.0 PURPOSE	1
2.0 ADMINISTRATIVE INFORMATION	2
3.0 PROJECT DESCRIPTION	3
3.1 SITE HISTORY	3
3.2 SITE PHYSICAL DESCRIPTION	3
3.3 TYPE OF INVESTIGATION	3
3.4 SCOPE OF FIELD ACTIVITIES	3
4.0 PRIMARY RESPONSIBILITIES	4
4.1 PROJECT MANAGER	4
4.2 PROJECT HEALTH AND SAFETY OFFICER	4
4.3 SITE SAFETY OFFICER	5
4.4 PROJECT PERSONNEL	5
4.5 TRAINING REQUIREMENTS	6
4.6 MEDICAL SURVEILLANCE	6
5.0 HAZARD ASSESSMENT	7
5.1 POTENTIAL CHEMICAL HAZARDS AT SITE	7
5.2 POTENTIAL PHYSICAL HAZARDS AT SITE	9
5.2.1 Underground Utility Hazards	9
5.2.2 Overhead Power Lines	9
5.2.3 Noise Hazards	10
5.2.4 Heat Stress Hazards	10
5.2.5 Cold Stress Hazards	10
5.2.6 Sunburn Hazards	11
5.2.7 Drilling Hazards	11
5.2.8 Trench/Excavation Hazards	11
5.2.9 Confined Space	12
5.2.10 Traffic Hazards	12
5.2.11 Biohazards	12
5.2.12 Other Hazards	12
5.3 GENERAL SAFETY HAZARDS	13

SITE HEALTH & SAFETY PLAN

TABLE OF CONTENTS (Continued)

	<u>Page</u>
6.0 AIR MONITORING	15
6.1 ACTION LEVELS	15
7.0 PERSONAL PROTECTIVE EQUIPMENT	17
8.0 SITE CONTROL	18
8.1 WORK AREA	18
8.2 DECONTAMINATION AREAS	18
8.3 COMMUNICATIONS	18
9.0 DECONTAMINATION	19
9.1 PERSONNEL DECONTAMINATION PROCEDURES	19
9.2 EQUIPMENT/SAMPLING GEAR DECONTAMINATION PROCEDURES	19
9.3 STORAGE OF INVESTIGATION-DERIVED MATERIALS	19
10.0 EMERGENCY RESPONSE	20
10.1 MEDICAL EMERGENCIES	20
10.2 ACCIDENTAL RELEASE OF HAZARDOUS MATERIALS OR WASTES	21
10.3 GENERAL EMERGENCIES	21
11.0 APPROVALS	22



SITE HEALTH & SAFETY PLAN

1.0 PURPOSE

This site Health and Safety Plan outlines health and safety procedures that shall be followed during fieldwork conducted at the site. The observance and practice of the procedures in this Plan are mandatory for all Geomatrix employees at the site. All subcontractors shall be made aware of the requirements of this Plan; however, subcontractors are responsible for the health and safety of their own employees and for following all applicable federal, state, and local regulations.

This Plan has been reviewed by the Project Manager and Project Health and Safety Officer. Prior to entering the site, Geomatrix personnel shall read this Plan and be familiar with health and safety procedures required when working on site. A copy of the Plan shall be available on site for inspection and review.



SITE HEALTH & SAFETY PLAN

2.0 ADMINISTRATIVE INFORMATION

Project Name: Emeryville Warehouse
Project Start Date: 14 February 1997 Project Number: 3095
Project Address: 1500 Park Avenue
Emeryville, CA

Client: Holliday Development Company
Client Contact: Rick Holliday
Telephone No.: _____ (Work) _____ (Home)

Project Manager: Tom Graf
Telephone No.: (415) 434-9400 (Work) 415-331-2033 (Home)

Project Health & Safety Officer: Mary Sue Philp
Telephone No.: (415) 434-9400 (Work) _____ (Home)

Site Safety Officer: Cheri Page
Telephone No.: (415) 434-9400 (Work) (707) 769 8388 (Home)

SITE HEALTH & SAFETY PLAN

3.0 PROJECT DESCRIPTION

3.1 SITE HISTORY

3.2 SITE PHYSICAL DESCRIPTION

Warehouse occupies entire site, in industrial + commercial area of Emeryville.

3.3 TYPE OF INVESTIGATION

*Drill one soil boring using direct push technique.
Grab groundwater sampling in boring. REMOVE ONE UST
AND COLLECT SOIL SAMPLES*

3.4 SCOPE OF FIELD ACTIVITIES

List and number all field tasks for project:

1. *Drill (push) soil boring*
2. *Grab GW sampling*
3. *UST REMOVE if SAMPLING*
4. _____
5. _____
6. _____

SITE HEALTH & SAFETY PLAN

4.0 PRIMARY RESPONSIBILITIES

4.1 PROJECT MANAGER

The Project Manager (PM) shall:

1. direct all Geomatrix personnel involved in investigative, monitoring, and remedial activities at the site and vicinity;
2. make the Project Health and Safety Officer aware of all pertinent project developments and plans;
3. make available the resources that are necessary for a safe working environment; and
4. maintain communications with the client, as necessary.

4.2 PROJECT HEALTH AND SAFETY OFFICER

The Project Health and Safety Officer (PHSO) shall:

1. direct all health and safety aspects of investigative, monitoring, and remedial activities conducted by Geomatrix personnel at the site and vicinity;
2. ensure that all Geomatrix personnel have received required training, are aware of the potential hazards associated with site operations, have been instructed in the work practices necessary for personal health and safety, and are familiar with the site Health and Safety Plan's procedures for all scheduled activities and for dealing with emergencies;
3. direct required exposure monitoring to assess site health and safety conditions;
4. prepare any accident/incident reports;
5. modify the site Health and Safety Plan as required based on accidents/incidents and findings regarding personnel exposures and work practices; and
6. report all accidents/incidents and findings regarding personnel exposure and work practices to the Project Manager.

SITE HEALTH & SAFETY PLAN

4.3 SITE SAFETY OFFICER

The Site Safety Officer (SSO) shall:

1. ensure that appropriate personal protective equipment is available for Geomatrix site personnel and enforce proper utilization of personal protective equipment by all on-site Geomatrix personnel;
2. with guidance from the PHSO, observe subcontractor's procedures with respect to health and safety. If the SSO believes that a subcontractor's personnel are or may be exposed to an immediate health hazard, the SSO shall suspend the subcontractor's site work. If the subcontractor's personnel do not have required protective equipment, the SSO shall consult with the PM or PHSO before proceeding with the work;
3. implement the project Health and Safety Plan and report any observed deviations from site conditions anticipated in the Plan;
4. conduct site safety briefings as needed;
5. calibrate monitoring equipment daily and properly record and file results;
6. under direction of the PHSO, perform required exposure monitoring;
7. maintain monitoring equipment or arrange maintenance as necessary;
8. assume other duties as directed by the PM or PHSO; and
9. report observed accidents/incidents or inadequate work practices to the PHSO and the PM.

4.4 PROJECT PERSONNEL

Project personnel involved in on-site investigations and operations shall:

1. take reasonable precautions to prevent injury to themselves and to their fellow employees;
2. perform only those tasks that they can do safely and immediately report accidents and/or unsafe conditions to the SSO or PHSO;
3. follow the procedures set forth in the site Health and Safety Plan and report to the SSO or PHSO any observed deviations from the procedures described in the Plan on the part of Geomatrix or subcontractor personnel; and

SITE HEALTH & SAFETY PLAN

4. inform the PM and PHSO of any physical conditions that might affect their ability to perform the planned field tasks.

4.5 TRAINING REQUIREMENTS

All project personnel must be in compliance with OSHA regulations specified in 29 CFR 1910.120 and CCR Title 8, Section 5192. These include completion of a 40-hour health and safety training course, an annual 8-hour refresher training, and participation in Geomatrix Consultants' medical monitoring program and respiratory protection program.

Additional site-specific training that covers on-site hazards, personal protection requirements, decontamination procedures, and emergency response information as outlined in this site Health and Safety Plan will be given by the PHSO or SSO before beginning on-site work. Site-specific training briefings will be documented on a "Project Health and Safety Field Meeting Form" provided at the end of this Plan. We do not anticipate that field staff will be occupationally exposed to blood or potentially infectious materials during the course of this project.

4.6 MEDICAL SURVEILLANCE

All Geomatrix project site personnel shall participate in the Geomatrix medical monitoring program, which includes annual audiometric and physical examinations for employees involved in hazardous waste or materials projects. It requires that all such personnel have medical clearance before being issued a respirator and participating in field activities. Frequency of medical examinations complies with 29 CFR 1910.120(f3) and CCR 8 5192(f3) and is summarized as follows:

1. Prior to performing field work;
2. At least once every 12 months;
3. At termination of employment;
4. Upon occurrence of possible overexposure;
5. More frequently if deemed necessary by a physician.

SITE HEALTH & SAFETY PLAN

5.0 HAZARD ASSESSMENT

An assessment of the potential hazards that may be encountered during field activities at the site are designated by field task in Table 5.0 and discussed below.

5.1 POTENTIAL CHEMICAL HAZARDS AT SITE

Listed below are hazardous substances that have been found or are suspected to be present at the site. Additional information on these chemicals, including their acute effects, are included in chemical information sheets attached at the end of this Plan.

Hazardous Substances Known or Suspect at Site: *No metals detected in soil at site. Up gradient site information listed below.*

CHEMICAL	MEDIA	MAXIMUM CONCENTRATION	ROUTES OF EXPOSURE
<i>Cr</i>		<i>41,000 ug/l</i>	<i>dermal, ingestion</i>
<i>Cr+5</i>		<i>44,000 ug/l</i>	<i>dermal, ingestion</i>
<i>TCE+PCE</i>	<i>groundwater</i>	<i>300 ug/l</i>	<i>dermal, inhalation</i>

(Attach a chemical information sheet for all known or suspected hazardous substances listed.)

Air monitoring requirements and action levels related to potential chemical hazards at the site are discussed in Section 6.0.

SITE HEALTH & SAFETY PLAN

TABLE 5.0

ANTICIPATED HAZARDS

TASK	HAZARDS															
	Chemical	PHYSICAL											Biological	Explosive	General Safety	
		Trip/Fall	Heavy Equipment	Underground Utilities	Overhead Power Lines	Noise	Heat Stress	Cold Stress	Sunburn	Drilling	Trench/Excavation	Confined Space				Traffic
Drilling		X	X	X	X	X				X			X			X
Grab SW Sampling	X	X											X			X
UST Removal	X	X	X	X		X					X					X

SITE HEALTH & SAFETY PLAN

5.2 POTENTIAL PHYSICAL HAZARDS AT SITE

Potential physical hazards include those indicated in Table 5.0 and are discussed below.

5.2.1 Underground Utility Hazards

An underground utility check shall be performed prior to initiating any subsurface investigation or work. The check will include:

- USA Note: USA must be notified at least 2 working days before any subsurface work begins. Record confirmation number in project field notes.
- Private Locator: Cruz Brothers
- Plans Check. Facility Contact: _____
- Geophysical.

Additional Information: _____

5.2.2 Overhead Power Lines

Whenever possible, avoid working under overhead high voltage lines. The following are minimum clearances for overhead high voltage lines.

Normal Voltage (phase to phase)	Minimum Required Clearance (feet)
more than 750 - 50,000	10
more than 50,000 - 75,000	11
more than 75,000 - 125,000	13
more than 125,000 - 175,000	15
more than 250,000 - 379,000	21
more than 370,000 - 550,000	27
more than 550,000 - 1,000,000	42

(Reference: CCR Title 8, Section 2946, Table II)

SITE HEALTH & SAFETY PLAN

5.2.3 Noise Hazards

Wear hearing protection when working near large heavy equipment, such as drill rigs or earth movers, or in other noisy conditions. As a general rule, hearing protection should be worn when two people standing within 2 feet of each other cannot communicate at normal conversational voice levels.

5.2.4 Heat Stress Hazards

Heat stress is a major hazard, especially for workers wearing protective clothing. To avoid heat stress, drink plenty of fluids and take periodic work breaks.

The signs, symptoms, and treatment of heat stress include:

- Heat rash which may result from exposure to heat or humid air.
- Heat cramps are caused by heavy sweating with inadequate electrolyte replacement. Signs and symptoms include: muscle spasms and pain in the hands, feet, and abdomen. Persons experiencing these symptoms should rest in a cooler area, drink cool liquids (not cold) and gently massage cramped muscles.
- Heat exhaustion occurs from increased stress on various body organs including inadequate blood circulation due to cardiovascular insufficiency or dehydration. Signs and symptoms include: pale, cool, moist skin; heavy sweating; dizziness; nausea; and fainting. Persons experiencing these symptoms should lie down in a cooler area, drink cool liquids with electrolytes (Gatorade, etc.), remove any protective clothing, and cool body with wet compresses at forehead, back and neck, and/or armpits.
- Heat stroke is the more serious form of heat stress. Temperature regulation fails and the body temperature rises to critical levels. Immediate action must be taken to cool the body before serious injury and death occur. Competent medical help must be obtained. Signs and symptoms are: red, hot, usually dry skin; lack of or reduced perspiration; nausea; dizziness and confusion; strong, rapid pulse; and coma.

5.2.5 Cold Stress Hazards

Exposure to cold can cause the body's internal temperature to drop to a dangerously low level. This is called hypothermia. Exposure to temperatures below freezing can cause frostbite of hands, feet, and face.

SITE HEALTH & SAFETY PLAN

Symptoms of hypothermia include:

- vague, slow, slurred speech;
- forgetfulness, memory lapses;
- inability to use hands;
- frequent stumbling; and
- drowsiness.

To prevent hypothermia, stay dry and avoid exposure. Wear sufficient clothing in layers such that outer clothing is wind- and waterproof and inner layers retain warmth (wool or polypropylene). Keep hands and feet well protected at all times.

5.2.6 Sunburn Hazards

Skin exposure to ultraviolet radiation can result in sunburn. Use long-sleeved shirts, hats, and sunscreen to protect against sunburn.

5.2.7 Drilling Hazards

Drilling hazards include noise, heavy equipment operation, rotative/moving parts, and trip/fall hazards. Non-drilling personnel should stay away from the area around the borehole during drilling. Hardhats and safety glasses will be worn by all personnel within 30 feet of the raised mast of an operating drilling rig. All personnel will be instructed as to the location of the "kill switch" on the drilling rig.

5.2.8 Trench/Excavation Hazards

OSHA requires that in all excavations, workers exposed to potential cave-ins must be protected by sloping or benching the sides of the excavation, or placing a shield between the side of the excavation and the work area. Any excavation 4 feet deep or deeper must have adequate means of access/egress and must be tested by a competent person for oxygen deficiency or hazardous atmosphere before anyone enters. Entry into excavations/trenches 5 feet deep or deeper requires an OSHA permit and compliance with OSHA regulations for trenching and excavation.

During the work for this project, no one will enter trenches/excavations deeper than 4 feet. If soil is not inherently stable at this depth appropriate protective measures (sloping, shoring, etc.) will be used. Care will be taken when sampling the excavation area from above to be sure the ground is stable and not undercut.

SITE HEALTH & SAFETY PLAN

NOTE: If entry into trenches/excavations over 4 feet deep is required, contact PHSO prior to entry.

5.2.9 Confined Space

NOTE. NO GEOMATRIX EMPLOYEES TO ENTER EXCAVATIONS

(Attach confined space entry plan.)

5.2.10 Traffic Hazards

WORK ~~area~~ area will be surrounded by cones if required.

5.2.11 Biohazards

5.2.12 Other Hazards

SITE HEALTH & SAFETY PLAN

5.3 GENERAL SAFETY HAZARDS

In working with or around any hazardous or potentially hazardous substances or situations, site personnel should plan all activities before starting any task. Site personnel shall identify health and safety hazards involved with the work planned and consult with the PHSO or SSO as to how the task can be performed in the safest manner, if he/she has any uncertainties.

Common safety hazards include trip/fall hazards and those associated with working around heavy equipment. All field personnel will adhere to the following general safety rules.

1. Wear protective equipment and clothing provided, when required.
2. Wear a hardhat and safety glasses in all construction areas and during drilling activities.
3. Wear sturdy work boots or shoes at the site. Steel-toed boots are required during drilling activities.
4. Do not eat, drink, or use tobacco in restricted work areas.
5. Prevent splashing of materials containing chemicals.
6. Prevent back injury by never lifting or carrying a load that is heavier than you can comfortably handle. When lifting heavy objects, bend the knees and use the leg muscles.
7. Keep all heat sources away from combustible liquids, gases, or any flammable materials. When working in areas where combustible gases are present, use only intrinsically safe equipment (non-sparking).
8. Field personnel shall be familiar with the physical characteristics of investigations, including:
 - Wind direction in relation to restricted work areas
 - Accessibility of other personnel, equipment, and vehicles
 - Areas of known or suspected chemicals in soil and groundwater
 - Site access
 - Nearest water sources
 - Location of communication devices.
9. Personnel and equipment in restricted work areas should be limited to the number necessary to perform the task at hand.

SITE HEALTH & SAFETY PLAN

10. All wastes generated during investigative activities at the site shall be disposed of as directed by the PM.
11. Inspect power cords for damage such as cuts and frays. Suspend cords with nylon rope or plastic ties only.
12. When in doubt of your safety, it is better to overprotect.
13. Practice defensive driving.
14. If site activities include the use of a drilling rig, all on-site personnel should know the location of the "kill switch."
15. A first-aid kit and a type ABC fire extinguisher shall be kept at the site and/or in a field vehicle when performing field work.

SITE HEALTH & SAFETY PLAN

6.0 AIR MONITORING

The following air monitoring equipment will be used.

- Photoionization Detector (PID)
- Flame Ionization Detector (FID)
- Draeger Pump and Tubes (specify tubes)
- Combustible Gas Meter (CGM) *(BEFORE UST REMOVAL)*
- Oxygen Meter (O2)
- Dust (Particle) Meter
- Other (specify)

The type and frequency of air monitoring for each work task is specified below. Air monitoring instruments will be calibrated and maintained according to manufacturer's specifications. Calibration information and air monitoring results will be recorded in project field notes.

	TASK	INSTRUMENT	FREQUENCY
1.	<u>UST REMOVAL</u>	<u>CGM</u>	<u>BEFORE REMOVAL</u>
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____

6.1 ACTION LEVELS

Listed below are OSHA permissible exposure limits (PELs) and ACGIH recommended threshold limit values (TLVs) for the chemicals of concern at the site.

CHEMICAL	OSHA PEL	ACGIH TLV
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

SITE HEALTH & SAFETY PLAN

The following chemicals found on site are listed under CCR Title 26 Section 22-12000 and are considered "chemicals known to the State to cause cancer or reproductive toxicity":

Respirators shall be worn when air monitoring indicates that concentrations exceed the following action levels:

Wear respirator if PID reads \geq _____ ppm (sustained reading in the breathing zone)

Stop work if PID reads \geq _____ ppm (sustained reading in the breathing zone)

An explosion hazard shall be assumed to exist where air concentrations of the following chemicals exceed their respective lower explosion levels (LEL).

CHEMICAL	LEL

Stop work and notify the PM or PHSO if Combustible Gas Meter reads \geq 10% LEL.

Evacuate area and notify appropriate emergency services if Combustible Gas Meter reads \geq 25% LEL.

SITE HEALTH & SAFETY PLAN

7.0 PERSONAL PROTECTIVE EQUIPMENT

The following personal protective equipment (PPE) will be used as specified below.

PPE Required	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6
Describe Task	Drilling	SW Sampling	UST Removal			
Steel-Toed Boots (Rubber)						
Steel-Toed Boots (Leather)	X	X	X			
Hard Hat	X		X			
Safety Glasses/Goggles	X	X	X			
Ear Plugs	X		X			
Gloves (specify type):						
• Inner and Outer						
• Inner Only	X	X	✓			
Tyvek Coverall						
Saranex Coverall						
Half-Face Respirator						
Full-Face Respirator						
Respirator Cartridge (specify type):						
Orange Vests	X	X	X			
Other (specify)						

Key: X = PPE Required
 Av = Have available at work site
 Glove Types = Nitrile, Vinyl, Neoprene, Butyl

Cartridge Types = Organic Vapor (OV)
 HEPA Filter (HEPA)
 Combination OV and HEPA (Comb.)
 Other – specify

SITE HEALTH & SAFETY PLAN

8.0 SITE CONTROL

The purpose of site control is to minimize the potential exposure to site hazards, to prevent vandalism at the site, and to provide adequate facilities for workers. Work area controls and decontamination areas will be provided to limit the potential for chemical exposure associated with site activities.

8.1 WORK AREA

An exclusion zone will be set up immediately surrounding the site work areas. Only authorized personnel shall be permitted access to the exclusion zone. If practical, the exclusion zone will be cordoned with barriers, cones, or fencing to limit unauthorized access. No eating, drinking, or smoking shall be allowed in the exclusion zone.

8.2 DECONTAMINATION AREAS

Equipment and personnel decontamination areas will be set up adjacent to the work exclusion zones. All equipment and tools used during work activities shall be decontaminated in the designated decontamination area. Decontamination procedures are described in Section 9.0 of this Plan.

8.3 COMMUNICATIONS

A field representative should contact the project manager or office at least once a day while in the field. The closest telephone is located: field phone (portable) will be available.

SITE HEALTH & SAFETY PLAN

9.0 DECONTAMINATION

9.1 PERSONNEL DECONTAMINATION PROCEDURES

Remove disposable gloves and clothing and place in plastic bags. Wash hands and face before eating, drinking, or smoking and at the end of the work day.

9.2 EQUIPMENT/SAMPLING GEAR DECONTAMINATION PROCEDURES

Alconox / water wash or steam clean

9.3 STORAGE OF INVESTIGATION-DERIVED MATERIALS

Investigation-derived materials (PPE/expendables, decon waste, soil cuttings, purged ground-water, etc.) will be handled and stored as follows:

TASK 1 & 2 *no soil or water waste is expected to be generated.
Gloves will be disposed of as municipal trash.*

TASK 3: *EXCAVATED SOIL TO BE STOCKPILED AND DISPOSED OF
PROPERLY*

SITE HEALTH & SAFETY PLAN

10.0 EMERGENCY RESPONSE

In the event of an accident or emergency condition, the procedures specified below shall be followed.

10.1 MEDICAL EMERGENCIES

In the event of a medical emergency, the following procedures should be used:

1. Remove injured or exposed person(s) from immediate danger if possible.
2. Evacuate other on-site personnel to a safe place in an upwind direction until it is safe for work to resume.
3. If serious injury or life-threatening condition exists, call

911 - Paramedics, fire department, police
Hospital emergency room

Clearly describe location, injury and conditions to dispatcher/hospital. Designate a person to direct emergency equipment to the injured person(s).

4. Provide first aid if necessary. Remove contaminated clothing only if this can be done without endangering the injured person.
5. Call the project manager and/or health and safety officer.
6. Immediately implement steps to prevent reoccurrence of the accident.

A map of the nearest hospital location is attached to this Plan.

Hospital Alta Bates
Address 2450 Ashby Avenue
Telephone (510) 204-4444

Nearest Poison Control Center Telephone: _____

Other emergency notifications and phone numbers:

SITE HEALTH & SAFETY PLAN

10.2 ACCIDENTAL RELEASE OF HAZARDOUS MATERIALS OR WASTES

1. Evacuate all on-site personnel to a safe place in an upwind direction until the PM or PHSO determines that it is safe for work to resume.
2. Immediately instruct a designated person to contact the PM or PHSO.
3. Contain spill, if it is possible and it can be done safely.
4. Initiate cleanup.

10.3 GENERAL EMERGENCIES

In the case of fire, flood, explosion, or other hazard, work shall be halted and the local police/ fire department shall be notified by calling 911. All on-site personnel will be immediately evacuated to a safe place.

FOR CONTINUATION SEE MAP 1

3

3

A

B

C

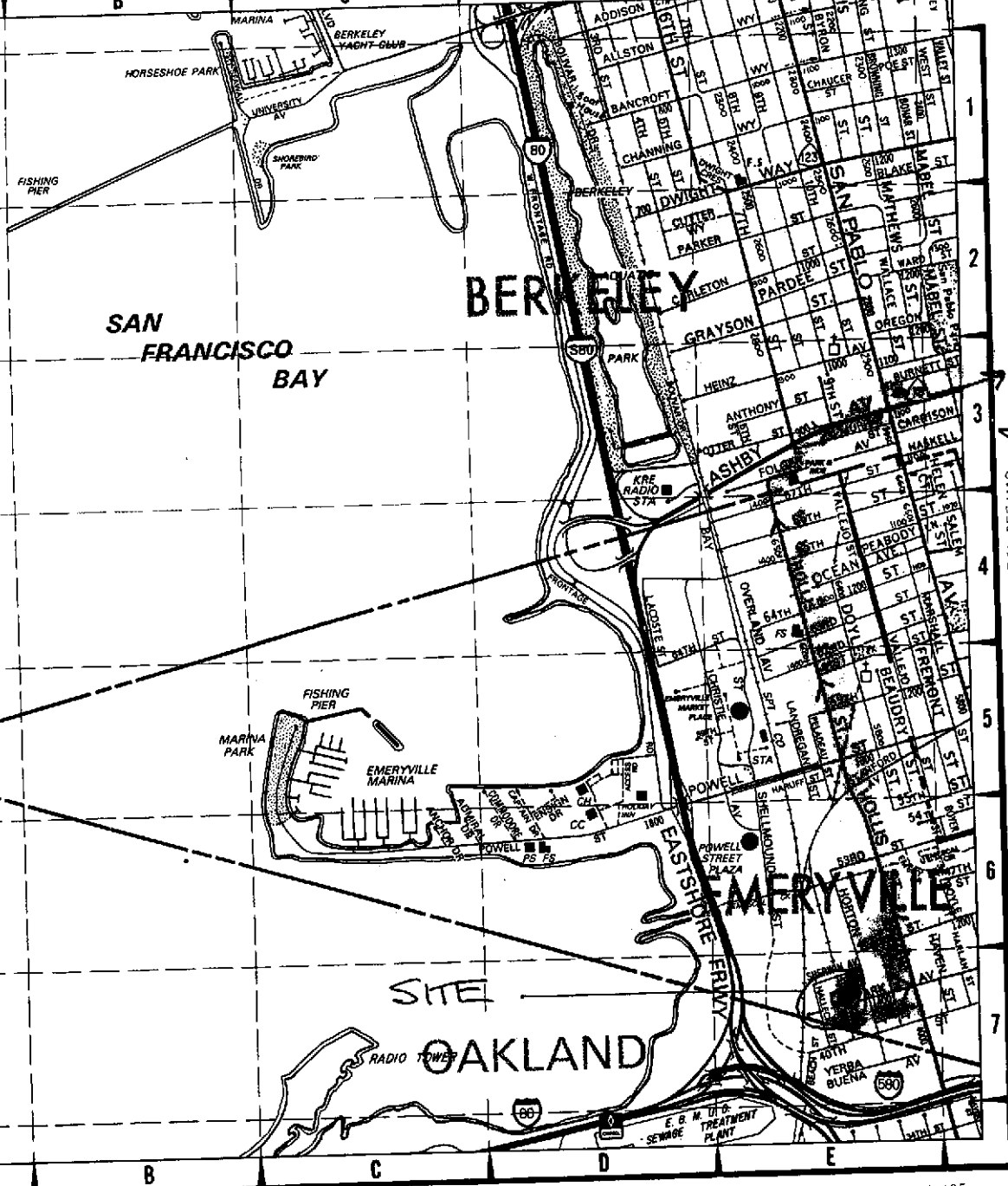
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N



ALAMEDA CO.

hospital

FOR CONTINUATION SEE MAP

DETAIL

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0 1/2 Mile

Telephone number (510) 204-4444

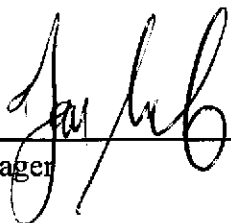


HOSPITAL LOCATION MAP
 Alta Bates - Herrick Hospital
 2450 Ashby Avenue
 Berkeley, California

Figure
 1
 Project No.
 3095

SITE HEALTH & SAFETY PLAN

11.0 APPROVALS



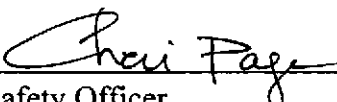
Project Manager

2/11/97


Date

Project Health & Safety Officer

Date



Site Safety Officer



2/11/97

Date

5/8/97



SITE HEALTH & SAFETY PLAN

11.0 APPROVALS

Project Manager

Date

Jeffrey B. [Signature]
Project Health & Safety Officer

2/11/97
Date

[Signature]
Site Safety Officer

2/11/97
Date