R02567

PROJECT SR991104

GLOBE SOIL ENGINEERS

Mr. Chung

SOIL / ENVIRONMENTAL REPORT

PROJECT LOCATION:

2942 San Pablo Avenue
Oakland, California

November 19, 1999

PREPARED FOR:

Mr. Chae Chung
C/O Mr. Ki Song
3133 Geary Blvd
San Francisco, CA 94118

ALDINE / GLOBE SOIL ENGINEERS

(Serving the Greater Bay Area Since 1976)

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November 19, 1999

Mr. Chae Chung
C/O Mr. Ki Song
3133 Geary Blvd
San Francisco, CA 94118

OUR PROJECT NO.: SR991104

PROJECT LOCATION:
2942 San Pablo Avenue
Oakland, California

Dear Mr. Chung:

In accordance with your request, we are pleased to submit this environmental assessment report for you site at the above address. This report presents the results of our surface and subsurface investigation.

Based on our field, laboratory, and office studies, it is our opinion that the soil at the site is not contaminated with pesticides, metals, volatile organics, gasoline, diesel, creosote, heavy oils, grease or other hydrocarbon products. There were a few places were we found drops of oil on the asphalt or ground surface of the parking area from parked cars. The oil drops, however, can be easily removed by scraping a few inches of the top soil.

Due to site topography, geology, hydrology, and subsurface soils stratigraphy, it is our opinion that the potential for contaminant transport from neighbouring sites through the unsaturated zone is judged to be very low. A very small risk exists in drinking water extracted from deep water levels. It is our understanding, however, that no deep drinking water wells are planned for the proposed development.

Please call me at 510-549-2494 or 800-344-SOIL if you have any questions. Thank you.

Sincerely Yours,
Z. Aldine, Ph.D.
Supervising Engineer
California Soil (Geotechnical) Engineering License # 644
California Civil Engineering License # 28551
License Renewal Date: 3/31/2002

CC:

Addressee (4)

TABLE OF CONTENTS

ATTACHMENTS

1. PURPOSE AND SCOPE OF WORK

The purpose of this environmental investigation for the subject site was to explore and evaluate the extent of soil contamination (if any) and, based on the information obtained, provide general environmental engineering assessments and conclusions relative to the site.

The scope of our work consisted of:
(a) review, compilation, and interpretation of available environmental, historic, soil, topographic, seismic, geologic, and hydrologic literature and maps pertinent to the site,
(b) field investigations including surface visual inspections, geophysical seismic refraction survey and exploratory subsurface borings,
(c) physical (geotechnical) laboratory testing to assess engineering and stratigraphic properties of soil samples,
(d) chemical laboratory testing to assess the extent of contamination of soil samples,
(e) preparation of an engineering report.

Our investigation was conducted in conformance with Alameda County Department of Environmental Health Requirements (Ref. 8), ASTM Annual Standards (Refs. 9 & 10), RWQCB requirements (Ref. 11), DHS Manuals (Ref. 12), LUFT Manual (Ref. 13), EPA Standards, and Subchapter 16 of Title 23 (Waters) of the California Administrative Code.

2. GENERAL BACKGROUND:

A brief description of site location and proposed construction is given below.

2.1. SITE LOCATION

The site is located on the eastern side of San Pablo Avenue, at 30th Street, Oakland, California, as shown on the Location Map, Figure 1. The lot size is approximately 1/2 acre and is bounded by residential and commercial sites. The site sits on a level pad within the Oakland plains, with an approximate elevation of 30 foot.

2.2. EXISTING AND PROPOSED CONSTRUCTION

The building site is presently occupied by a garage and a vacant parcel. It is our understanding that possibly the proposed buildings in the future will probably consist of two to three-story structures that are constructed on the site. There will be garages (parking area) off an access driveway from San Pablo Avenue.

2.3. SITE HISTORY

According to the owners of the property and based on Alameda County public records, other goverment records (see Appendix D), and our reviews of aerial photographs, the site had been partially vacant and partially occupied by a garage for many years.

The regulatory agency records reviewed showed no documented occurence of soil or groundwater contamination at the site from past activities. There has been no underground storage tanks of record at the site. No chemicals of concern have been reported to have been applied at the site. There is no evidence of previous heavy industrial use of the site. Additional detailed information can be found in Appendix D.

2.4. STATEMENT OF QUALIFICATIONS OF ENGINEER

All work was performed under the direct supervision of Dr. Z. Aldine. Dr. Aldine has over 20 years of experience in various types of geotechnical and environmental investigations in the Greater Bay Area. His qualifications include two years of teaching soil engineering principles, and 15 years of performing soil drilling, sampling, testing, inspections and reports.

Currently, Dr. Aldine is fully involved in the supervision of numerous geotechnical and environmental investigations and reports in the Bay Area for developers, contractors, property owners, buyers and sellers, insurance companies, lending institutions, and city, county and state governments.

Dr. Aldine's professional licenses are listed below:
California Civil Engineering License # 28551
California Soil/Geotechnical Engineering License # 644
California General Contractor's License # B-357503

3. LITERATURE REVIEW

Available Literature, maps, and miscellaneous data pertinent to the site were reviewed, compiled, and interpreted. The information was obtained mainly from the sources listed below:

a) Federal agencies, such as U.S. Geological Survey (USGS) and Environmental Protection Agency (EPA),
b) State agencies, such as California Division of Mines and Geology (CDMG) and Department of Health Services (DHS),
c) Local Agencies such as Regional Water Quality Control Board (RWQCB), Alameda County Environmental Health Services, Water District, Fuel Leaks Section, and Alameda County and City of Oakland Department of Public Works records and Fire Department files,
d) U.C. Berkeley libraries, corporations, and private sources.

3.1. SEISMICITY AND FAULT LINES

According to Appendix B of the LUFT Manual, the amount of allowable toxic concentration levels is adversely influenced by the presence of fractures and faults in the subsurface at a site. Therefore, site seismicity was reviewed in order to assess the potential for contaminants to travel through fault lines into various soil/rock layers.

As with the rest of the San Francisco Bay Area, the site is considered to be in one of the most seismically-active regions of the United States. The nearest active fault is the northwest-trending Hayward Fault, which lies about 3 miles to the east of the site (see the Seismicity Map, Fig. 2, taken from Ref.4). The site, however, lies outside the Alquist-Priolo Special Studies Zone boundaries, and no known fault lines pass through or near the site.

3.2. GEOLOGY

According to Appendix B of the LUFT Manual, the amount of allowable toxic concentration levels is dependent on the geological composition and stratification of subsurface soil and rock layers at a site. Therefore, site geology was reviewed in order to assess the potential for contaminants to travel through various soil/rock layers.

Geologic maps covering the area indicate that the site is under-lain by a layer of Quaternary deposits consisting of lenses of sandy silty clay and gravel-sand-silt mixtures of the Temescal Formation (Qtc) that were brought down from the upper hills, over a layer of hard sediments, as shown in the Geology Map, Figure 3.

Published data does not indicate the presence of any significant geological problems associated with the site.

3.3. HYDROLOGY

According to Appendix B of the LUFT Manual, the amount of allowable toxic concentration levels is, in general, inversely proportional to the amount of rainfall at a site.

Rainfall at the site is about 19 inches per year (Fig. 4, taken from Ref.4), with about 80% of the rain falling between the months of November and April. This amount of rainfall is below average for the Bay Area, which recieves from 14 inches per year along the Bay Shore, to 44 inches in the hills.

Published data does not indicate the presence of any significant hydrological problems associated with the site.

4. GEOTECHNICAL SITE INVESTIGATIONS

Limited geotechnical investigations were conducted to provide parameters needed for the environmental fate analysis, to determine subsurface soil stratification and possible contaminant flow patterns, and for engineering feasibility studies for possible remedial measures.

The mobility of a contaminant depends on its physical/chemical properties, as well as the properties of the transport pathway of concern. For transport through the unsaturated zone, the site specific stratigraphy and geologic setting will determine the properties of the transport pathway.

Our geotechnical site investigations consisted of detailed surface site reconnaisances and observations performed by the undersigned during November, 1991 and November, 1999; and a subsurface exploration performed by our engineer in December, 1991 and in November, 1999, and consisted of exploratory borings, laboratory testing, and a geophysical seismic refaction survey.

4.1. SURFACE FEATURES AND CONDITIONS

A surface reconnaissance of the site was performed to evaluate the surficial site conditions and observe if any obvious indications of geotechnical or drainage problems were exposed. In addition, excavations on adjacent sites were also examined to provide supplemental information on the character of exposed soil materials.

The site is presently occupied by a garage and a vacant parcel, has no trees, lightly vegetated, and practically level (or gently sloping).

The drainage on the site is split with some flowing down towards San Pablo Avenue. There is some evidence of a light flow across the site and most of the drainage occurs as sheet flow or direct infiltration.

4.2. GEOPHYSICAL INVESTIGATIONS

A geophysical seismic refraction survey was performed in order to assess the depths and elastic properties of soil and rock layers. Sufficient energy was released in the holes to record the soil velocities and to map soil surface profile. In addition, the geophysical survey was performed to help determine whether there are any buried obstructions in the area. This may include dry wells, sewer lines, drains, sumps, and other drainage systems that could provide conduits for the movement of contamination.

Three layers with differing velocities were discovered. The first is a low velocity, 1900 fps, topsoil zone with an approximnate average thickness of 6 feet. The second was an intermediate stiffness with a velocity of about 4100 fps, a mixture of stiff soil and rock, with an approximate average thickness of 7 feet. Finally, the third had a high velocity, about 6,100 fps, representing a continuoum of a hard sedimentary layer.

4.3. SUBSURFACE INVESTIGATIONS AND LABORATORY TESTING

Historical background data, intensive visual inspections, and scanning of the site were used to determine proper subsurface sampling locations. The subsurface exploration consisted of 3 exploratory borings that were drilled to depths of 14 to 17 feet. The approximate locations of our exploratory borings are shown on the Site Plan, Figure 5. Logs of our borings and details regarding our field and laboratory investigations are included in the attached Appendix A. Each of these borings penetrated the overlying soil and moderately into hard sediments.

The borings were drilled using a gas powered auger rig, 4 inch in diameter. Representative samples were obtained during drilling using a 2-inch modified California drive sampler. The sampler was driven into the soil or rock at the bottom of the hole with a 140-pound hammer falling 30 inches; the blows per foot were recorded as an indicator of the consistency or denseness of the soil penetrated. Samples were visually inspected, described and classified at the site and reinspected in the laboratory.

Laboratory determination of water content, dry density, unconfined compressive strength, and shear strength were made for selected samples in order to evaluate the denseness, strength, and plasticity of the soil tested. The tests indicated that the soil deposits are fairly stiff at depths greater than five feet.

The soils encountered in our borings generally consisted of a blanket (3 to 6 foot thick) of soft to firm silty clays and sandy clays with rock fragments, over hard sediments. These soils possessed a medium plasticity and expansion potential. Our site reconnaissance and subsurface exploration confirmed that the materials shown on published geological maps were present.

The elevations of the borings were approximately determined by interpolation of topographic map contours.

Ground water (moisture) was observed in one of the borings at a depth of approximately 18 feet. It should be noted, however, that the borings may not have been left open for a sufficient period of time to establish equilibrium groundwater conditions. In addition, fluctuations in the groundwater level may occur due to variations in rainfall, temperature and other factors not evident at the time the measurements were made.

We wish to point out that the attached boring logs and related information depict subsurface conditions only at the approximate locations shown on the Site Plan and on the dates designated on the logs; subsurface conditions at other locations and times will differ somewhat from the conditions occuring at our boring locations.

5. CHEMICAL (HYDROCARBON) SITE INVESTIGATIONS

5.1. SURFACE FEATURES AND CONDITIONS

According to the owners of the property and based on City of Oakland public records, the site has been used as a garage (Micromatic Finishers) for at least the past thirty years.

Our visual inspections of the site did not reveal any signs of contamination such as unusual staining, discoloration, odors, stressed vegetation, wastes exposed at the surface, carelessly handled drums, tank stems, or any apparent significant threats to health and safety, except for a few localized and shallow (about 1" to 2" deep) surface oil and grease spills on the property. These spills appear to have been caused by parked cars or trucks. Due to the low soil permeability near the surface, these spills appear not to have seeped through to lower soil layers and do not pose any significant threats to health and safety. It is recommended that these spots be scraped and removed from the site during any future construction activity.

5.2. SUBSURFACE INVESTIGATIONS AND LABORATORY TESTING

The approximate locations of our exploratory borings are as described in Section 4.2. Soil samples were visually inspected, described, classified and tested at the site and reinspected in the laboratory.

The samples were contained in 2"x6" clean brass tubes. The ends of the tubes were covered air tight with aluminum foil, then plastic end caps, and finally wrapped with duct tape to minimize volatization. Composite samples were also formed using soil samples from each of the sampling locations. The sampling tools were thoroughly decontaminated between samplings to prevent cross-contamination. The soil samples were preserved with ice and packaged securely in ice chests for delivery to the lab. All samples were tagged and tracked from time of collection through laboratory analytical data reporting (chain-of custody).

Our visual inspection of the soil samples did not reveal any abnormal staining, discoloration, free unusual products, or odor.

The samples were approximately analized in the field using portable Organic Vapor Meters (OVM), Gas Chromatographs (GC), Photoionization Detectors (PID), and Total Hydrocarbon Analysers.

Finally, laboratory testing for Pesticides, Herbicides, Volatile Organics (TCE), PCBs, Metals, Antimony, Total Petroleum Hydrocarbons, Diesel, Gasoline, Oil and Grease, Creosote, Benzene, Toluene, Xylene, and Ethyl Benzene were performed on soil samples. The tests indicated that the concentration levels were below detection limits (see Appendix B), and, therefore, no significant soil contamination exists at the site.

6. CONCLUSIONS AND DISCUSSION

Based on our field, laboratory, and office studies, it is our opinion that the soil at the site is not contaminated with pesticides, metals, volatile organics, gasoline, diesel, creosote, heavy oils, grease or other hydrocarbon products. There were a few places were we found drops of oil and grease on the ground surface of the parking area from parked cars. The oil drops, however, can be easily removed by scraping a few inches of the top soil.

Due to site topography, geology, hydrology, and subsurface soils stratigraphy, it is our opinion that the potential for contaminant transport from neighbouring sites through the unsaturated zone is judged to be very low. A very small risk exists in drinking water extracted from deep water levels. It is our understanding, however, that no drinking water wells are planned for the proposed development.

7. LIMITATIONS

Our services were performed in accordance with generally accepted soil engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied. It must be thoroughly understood that the recommendations that are presented in this report should not be construed to be any type of long-term guarantee or insurance against future soil problems that may occur at the site.

If you have any questions regarding this report, please call me at 510-549-2494 or 800-344-SOIL.

Very truly yours,
Z. Aldine, Ph.D.
Supervising Engineer
California Soil (Geotechnical) Engineering Licence # 644
California Civil Engineering Licence # 28551
Exp. 3/31/2002

REFERENCES

1. USGS, Map MF-574, Preliminary Geologic Map of Alameda County, prepared by M.C. Blake, et. al., dated 1985.

2. USGS, Map I-298, Former Shoreline Features Along the San Francisco Bay, California, by D. H. Radbruch, 1959.

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6. California Division of Mines and Geology (CDMG), various 7.5' quadrangle maps of the Alquist-Priolo Seismic Safety Hazard Zones.

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10. ASTM, Volume 4.08, Designation D 420 - 69, Standard Recommended Practice for Investigating and Sampling Soil and Rock for Engineering Purposes.

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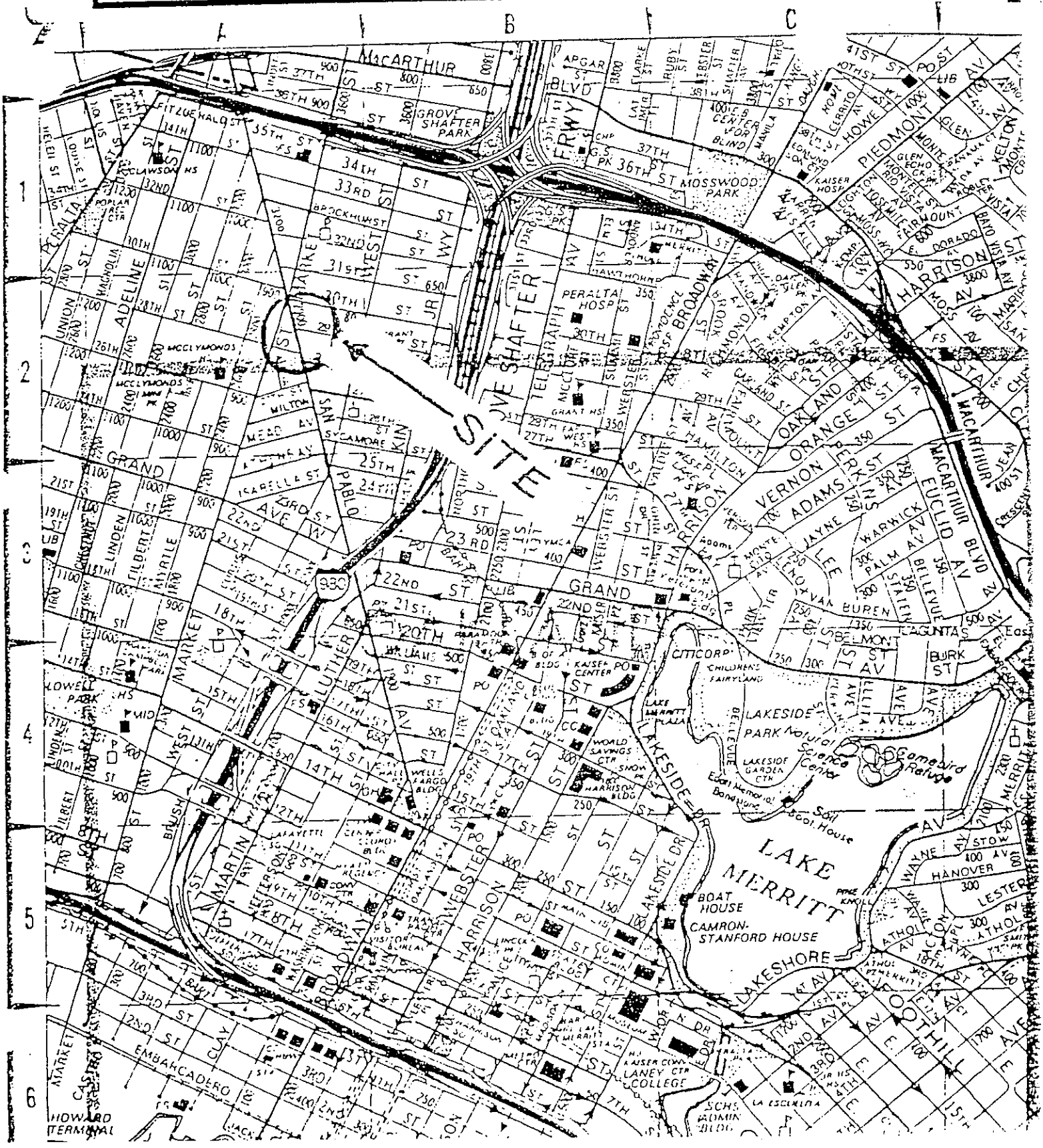
16. August, L. L., and J. W. Mercer. "Reproduction of Acceptable Concentration Levels in Soil." Geotrans Report to Mobile Oil Corporation (1988).

GLOBE SOIL ENGINEERS	PROJECT NO: 911107
	LOCATION: 2926 SAN PABLO AVENUE OAKLAND, CALIFORNIA
LOCATION MAP	DATE: 1/15/92
	FIGURE: 1



Site Address

2942 SAN PABLO AVENUE
OAKLAND, CA, 94608

Report Number

NO99008

Database Symbol Representation

- ★ SEARCH SITE
- ✚ ERNS
- UST
- CAL-SITES
- ✳ CORTESE
- LUST
- ✙ CERCLIS

* Map coordinates are provided as a convenience only. Estimated distance is based on the mapping information provided by the U.S. Government Tiger files and may vary from local street map guides

PROJECT NO: 911107

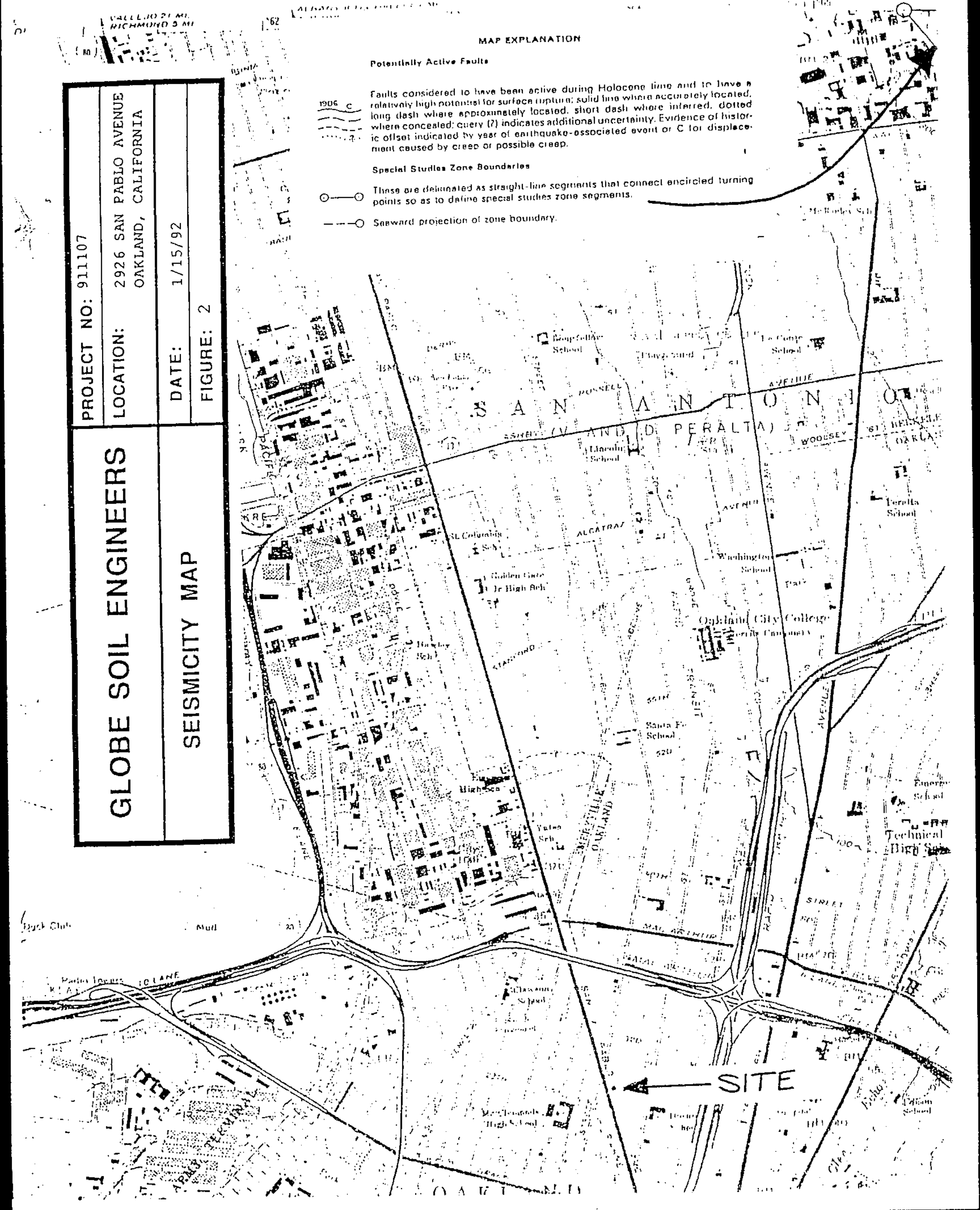
LOCATION: 2926 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

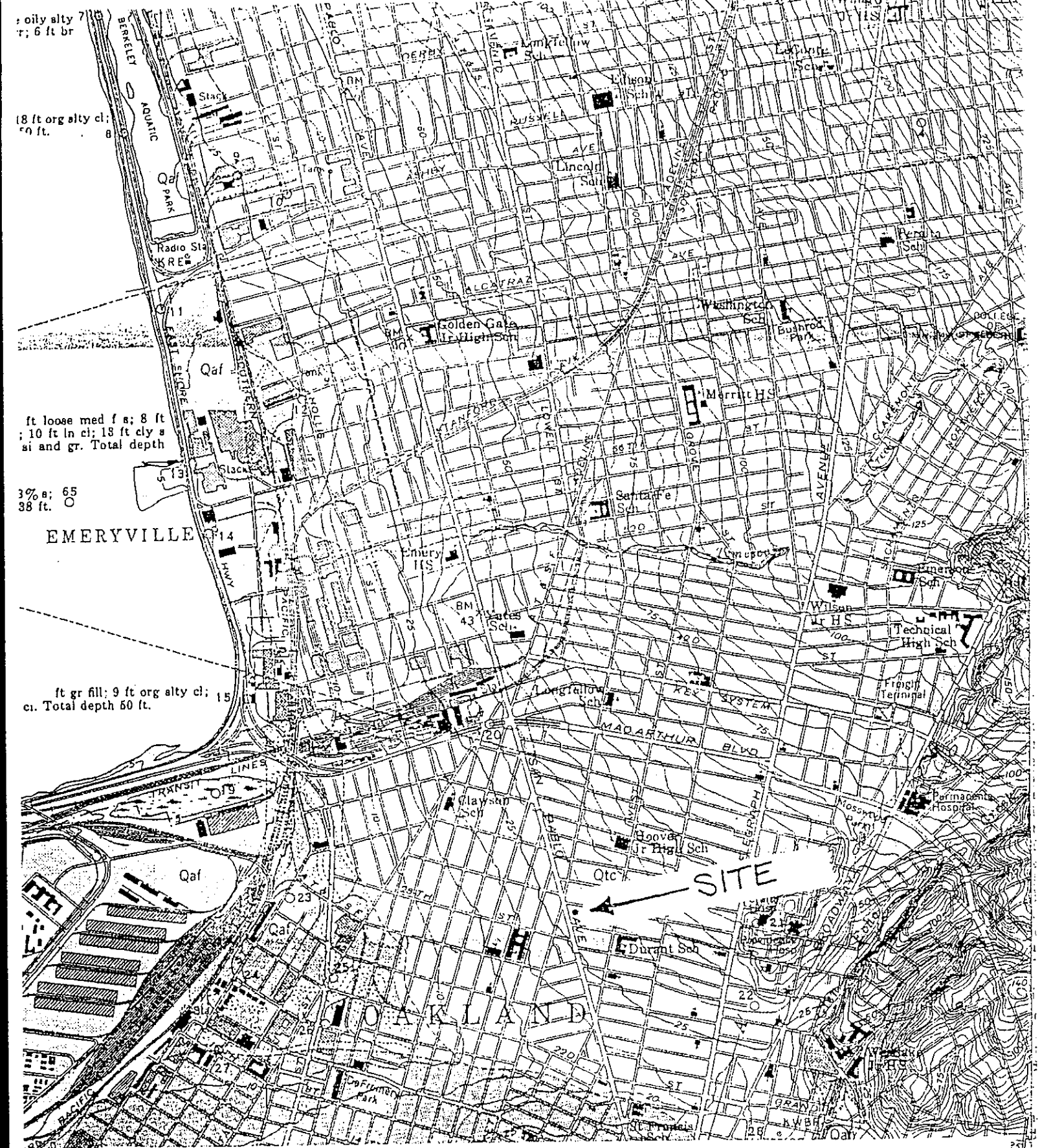
DATE: 1/15/92

FIGURE: 2

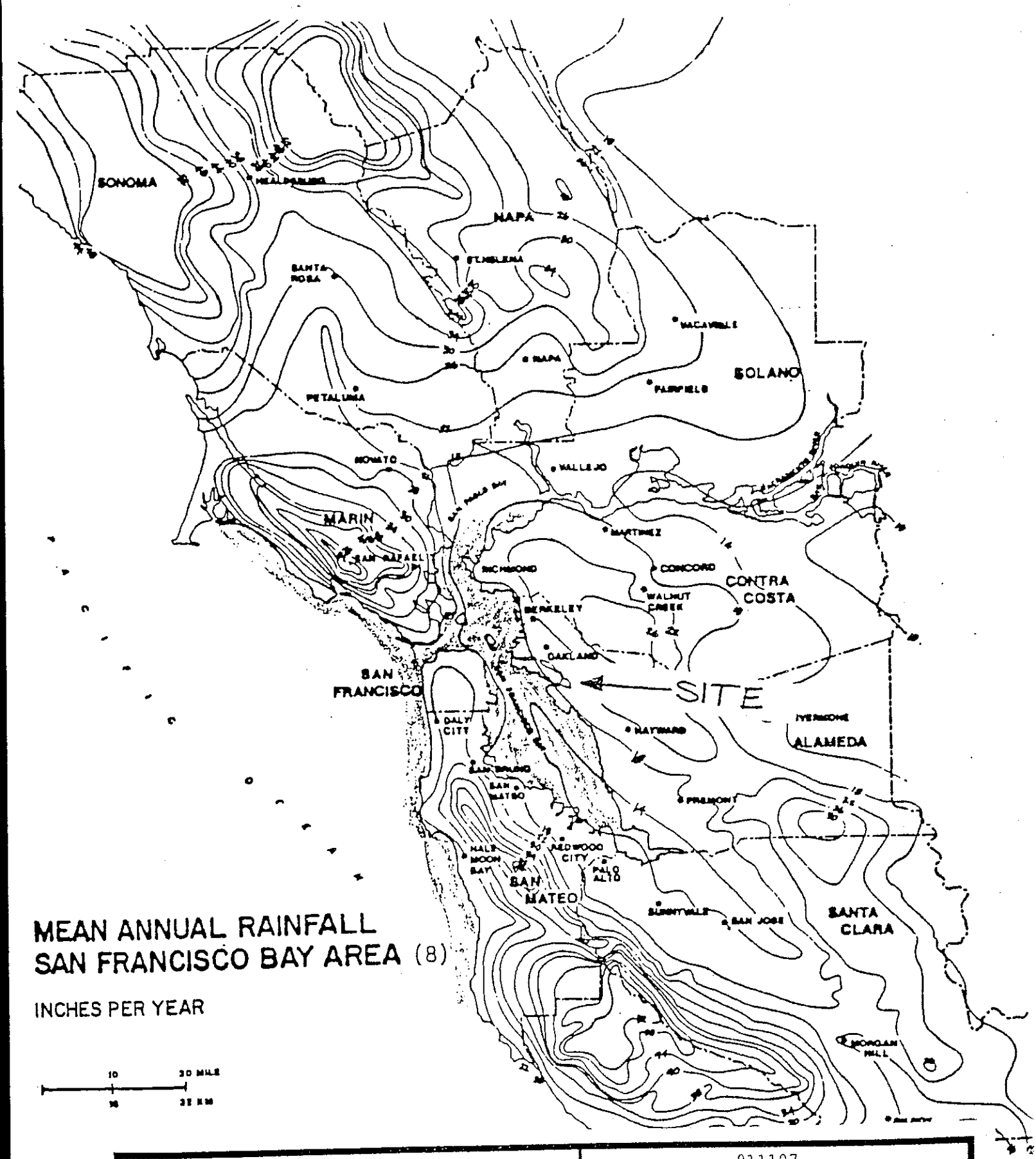
GLOBE SOIL ENGINEERS

SEISMICITY MAP





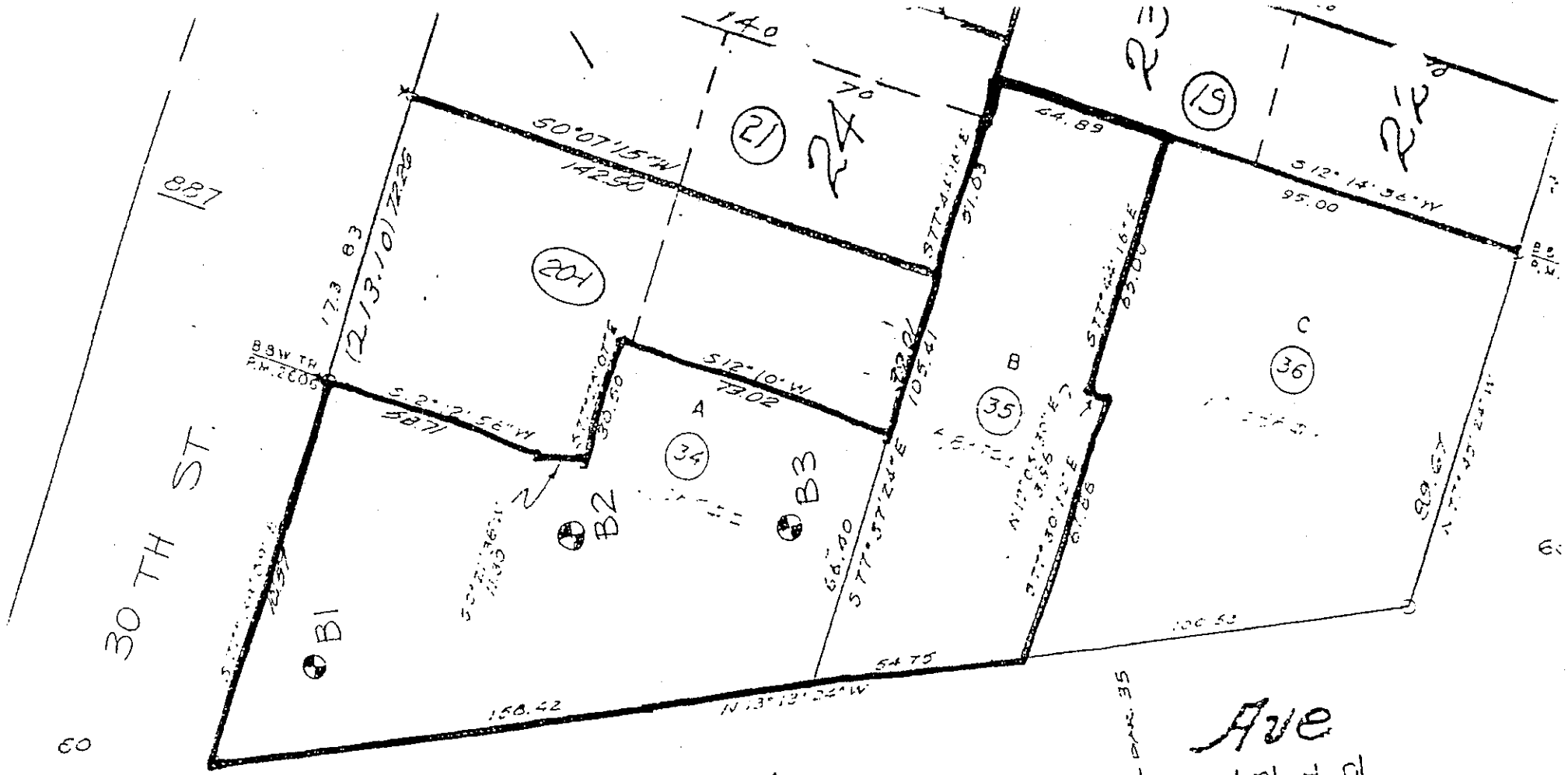
GLOBE SOIL ENGINEERS	PROJECT NO: 911107
	LOCATION: 2926 SAN PABLO AVENUE OAKLAND, CALIFORNIA
GEOLOGY MAP	DATE: 1/15/92
	FIGURE: 3



MEAN ANNUAL RAINFALL
SAN FRANCISCO BAY AREA (8)

INCHES PER YEAR

GLOBE SOIL ENGINEERS	PROJECT NO: 911107
	LOCATION: 2926 SAN PABLO AVENUE OAKLAND, CALIFORNIA
RAINFALL MAP	DATE: 1/15/92
	FIGURE: 4



GLOBE SOIL ENGINEERS	PROJECT NO: 911107
	LOCATION: 2926 SAN PABLO AVENUE OAKLAND, CALIFORNIA
SITE MAP	DATE: 1/15/92
	FIGURE: 5

APPENDIX A: FIELD AND LABORATORY INVESTIGATIONS

FIELD INVESTIGATION

The boring logs show our interpretation of the subsurface conditions on the dates and at the locations indicated and it is not warranted that they are representative of the subsurface conditions at other locations and times. Also, the stratification lines represent the approximate boundaries between the material types; actual transitions are gradual.

The materials encountered in the borings were continuously logged in the field by our engineer. Logs of our borings as well as a key for the classification of the soils encountered in the borings, Figure A-1, are included as part of this appendix.

Representative disturbed and undisturbed soil samples were obtained from the exploratory borings at selected depths appropriate to the soil investigation. The disturbed samples were obtained using a 2-inch O.D. split spoon sampler or were taken directly from the auger cuttings. The undisturbed samples were obtained with the Modified California Sampler. The type of sample shown on the logs is designated as follows:

 Split Spoon Sample

 Modified California Sample (2-inch I.D.)

The standard penetration resistance blow counts were obtained with the split spoon sampler by dropping a 140-pound hammer through a 30-inch free fall. This hammer was also used to obtain samples with the Modified California Sampler. The samplers were driven 18 inches, or a shorter distance where hard resistance was encountered, and the number of blows were recorded for each 6 inches of penetration.

LABORATORY INVESTIGATION

The laboratory testing program was directed toward a quantitative and qualitative evaluation of the physical and mechanical properties of the materials underlying the site.

The Shear Strength, Compression, Natural Water Content and Dry density determinations were made on selected samples of the materials recovered from the borings; the results of these tests are presented on the logs of borings at the appropriate sample depths.

An Atterberg Limit determination was performed on a sample of the more clayey near-surface soil to determine the range of water content over which this material exhibits plasticity and to estimate the expansion potential of the soil.

The percentage of particles passing the No. 200 sieve was determined on 2 samples of the subsurface materials underlying the site. These tests were performed to assist in the classification of the soils. The results of these tests are also presented on the logs of borings at the appropriate sample depths.

PRIMARY DIVISIONS			GROUP SYMBOL	SECONDARY DIVISIONS
COARSE GRAINED SOILS — MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS (LESS THAN 5% FINES)	GW	Well graded gravels, gravel-sand mixtures, little or no fines
			GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
		GRAVEL WITH FINES	GM	Silty gravels, gravel-sand mixtures, non-plastic fines.
			GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.
	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS (LESS THAN 5% FINES)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES	SM	Silty sands, sand-silt mixtures, non-plastic fines.
			SC	Clayey sands, sand-clay mixtures, plastic fines.
FINE GRAINED SOILS — MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT IS LESS THAN 50%		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS LIQUID LIMIT IS GREATER THAN 50%		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils.

DEFINITION OF TERMS

	U.S. STANDARD SERIES SIEVE			CLEAR SQUARE SIEVE OPENINGS				
	200	40	10	4	3/4"	3"	12"	
SILTS AND CLAYS	SAND			GRAVEL		COBBLES	BOULDERS	
	FINE	MEDIUM	COARSE	FINE	COARSE			

GRAIN SIZES

SANDS AND GRAVELS	BLOWS/FOOT †
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	OVER 50

RELATIVE DENSITY

SILTS AND CLAYS	STRENGTH ‡	BLOWS/FOOT †
VERY SOFT	0 - 1/4	0 - 2
SOFT	1/4 - 1/2	2 - 4
FIRM	1/2 - 1	4 - 8
STIFF	1 - 2	8 - 16
VERY STIFF	2 - 4	16 - 32
HARD	OVER 4	OVER 32

CONSISTENCY

† Number of blows of 140 pound hammer falling 30 inches to drive a 2 inch O.D. (1-3/8 inch I.D.) split spoon (ASTM D-1586).

‡ Unconfined compressive strength in tons/sq. ft. as determined by laboratory testing or approximated by the standard penetration test (ASTM D-1586), pocket penetrometer, torvane, or visual observation.

GLOBE SOIL ENGINEERS	ENGINEER: Z. ALDINE
	FIGURE: A-1
KEY TO EXPLORATORY BORING LOGS	Unified Soil Classification System (ASTM D-2487)

REFUSAL

Unless otherwise noted on the Boring Logs, all subsurface soil investigations were carried down to a depth where our "refusals" were met with, whereupon the borings were terminated. The terminology of the word "refusal" does not necessarily mean that extremely hard rock material was encountered at that particular depth. It only implies that very hard material, possessing a bearing capacity generally higher than 10,000 lbs/sq.ft. was encountered.

Such material can indicate an extremely dense sedimentary rock of granular nature, quite heavily preconsolidated clays, a layer of "hardpan" formed within some of the weaker material by chemical action or by dessication, or it could also mean a layer of large boulders, a layer of sedimentary rock that underwent metamorphic phenomena, and finally it could also mean a layer of extremely hard igneous rock.

On the basis of the above, it should be observed that the word "refusal" is a subjective expression and this entails that when driving large piles or boring holes for cast-in-situ piers, a deeper penetration can be obtained although, at times, the "refusal" for driving piles or borings for piers can be encountered at a shallower depth than the depth at which our "refusal" was encountered. The latter generally depends on the equipment used and on the conditions of the terrain.

ROCK HARDNESS CRITERIA

Very Hard: Cannot be scratched with knife or sharp pick. Breaking of hand specimen requires several hard blows of geologist's pick.

Hard: Can be scratched with knife or pick only with difficulty. Hard blow of hammer required to detach hand specimen.

Moderately Hard: Can be scratched with knife or pick. Gouges or grooves to 1/4 inch deep can be excavated by hard blow of point of a geologist's pick. Hand specimens can be detached by moderate blow.

Medium: Can be grooved or gouged 1/16 inch deep by firm pressure on knife or pick point. Can be excavated in small chips to pieces about 1 inch maximum size by hard blows of the point of a geologist's pick.

Soft: Can be gouged or grooved readily with knife or pick point. Can be excavated in chips to pieces several inches in size by moderate blows of a pick point. Small thin pieces can be broken by finger pressure.

Very Soft: Can be carved with knife. Can be excavated readily with point of pick. Pieces 1 inch or more in thickness can be broken with finger pressure. Can be scratched readily by fingernail.

GLOBE SOIL ENGINEERS

EXPLORATORY BORING LOG

PROJECT NO: 911107
LOCATION: 2926 SAN PABLO AVENUE OAKLAND, CALIFORNIA
DATE: 1/15/92
BORING NO: 1

DRILL RIG: Portable Gas Auger	BORING DIAMETER: 3 Inch	LOGGED BY: WM
DEPTH TO GROUNDWATER:	SURFACE ELEVATION: 30	CHECKED BY: ZN

DESCRIPTION AND CLASSIFICATION				SYMBOL	DEPTH (FEET)	SAMPLE	PENETRATN RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	SHEAR STRNGTH (KSF)
DESCRIPTION	COLOR	CONSIST.	SOIL TYPE							
CLAY, Sandy with rock fragmnts and surface roots LL = 30% PI = 17%	Orange brown	Firm	CL		4		7	10	109	3.5 (UC)
SILT, clayey Passing #200 seive: 49%	Light brown	Dense	SM		8		10	16		5.8 (P)
SAND	Gray brown	Med-Dense	SM		12		19	15	114	
MUD	Gray	Med-Dense	CL		16		32	17		
SEDIMENTARY LAYER weathered Refusal	Gray	Med-hardness	GW		20					

BOTTOM OF BORING = 17 FEET

GLOBE SOIL ENGINEERS

PROJECT NO: 911107

LOCATION: 2926 SAN PABLO AVENUE OAKLAND, CALIFORNIA

EXPLORATORY BORING LOG

DATE: 1/15/92

BORING NO: 2

DRILL RIG: Portable Gas Auger	BORING DIAMETER: 3 Inch	LOGGED BY: WM
DEPTH TO GROUNDWATER:	SURFACE ELEVATION: 30	CHECKED BY: ZN

DESCRIPTION AND CLASSIFICATION				SYMBOL	DEPTH (FEET)	SAMPLE	PENETRATN RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	SHEAR STRNGTH (KSF)
DESCRIPTION	COLOR	CONSIST.	SOIL TYPE							
CLAY sandy with rock fragmnnts and surface roots LL = 34% PI = 20%	Yellow brown	Firm	CL		4		6	11	110	3.4 (UC)
SAND, silty Passing #200 seive: 36%	Light brown	Dense	SM		8		9	15		5.4 (P)
CLAY	Gray	Stiff	CL		12		21	15	115	
SEDIMENTARY LAYER	Gray yellow	Dense	SM -SW		16		33	16		
SEDIMENTARY LAYER No caving	Gray yellow	Dense	SM		20					

BOTTOM OF BORING = 18 FEET

GLOBE SOIL ENGINEERS

PROJECT NO: 911107

LOCATION: 2926 SAN PABLO AVENUE OAKLAND, CALIFORNIA

EXPLORATORY BORING LOG

DATE: 1/15/92

BORING NO: 3

DRILL RIG: Portable Gas Auger	BORING DIAMETER: 3 Inch	LOGGED BY: WM
DEPTH TO GROUNDWATER: 15	SURFACE ELEVATION: 30	CHECKED BY: ZN

DESCRIPTION AND CLASSIFICATION				SYMBOL	DEPTH (FEET)	SAMPLE	PENETRATN RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	SHEAR STRNGTH (KSF)
DESCRIPTION	COLOR	CONSIST.	SOIL TYPE							
CLAY silty with rock fragments and surface roots LL = 33% PI = 23%	Yellow brown	Firm	CL		4		5	10	111	3.2 (UC)
SAND, silty Passing #200 seive: 42%	Light brown	Firm	SM		8		9	16		5.6 (P)
SAND decomposed. rhythmically bedded.	Gray brown	Dense	SM		12		26	17	117	
SEDIMENTARY LAYER Breaks into small pieces.	Gray	Dense	SM -GW		16		34	16		
SEDIMENTARY LAYER	Gray-brown	Very Dense	SM		20			(WATER)		

BOTTOM OF BORING = 17 FEET

APPENDIX B: CHEMICAL FIELD/LABORATORY ANALYSIS

Typical soil Test Results for All Samples

		Sample Type: Soil					
		1		2		3	
Method and Constituent:	Units	Concentration	Reporting Limit	Concentration	Reporting Limit	Concentration	Reporting Limit
DHS Method:							
Total Petroleum Hydrocarbons as Gasoline	ug/kg	ND	500	ND	500	ND	500
EPA Method 8020 for:							
Methyl t-Butyl Ether	ug/kg	ND	50	ND	50	ND	50
Benzene	ug/kg	ND	5.0	ND	5.0	ND	5.0
Toluene	ug/kg	ND	5.0	ND	5.0	ND	5.0
Ethylbenzene	ug/kg	ND	5.0	ND	5.0	ND	5.0
Xylenes	ug/kg	ND	15	ND	15	ND	15

		Method Blank	
Method and Constituent:	Units	Concentration	Reporting Limit
DHS Method:			
Total Petroleum Hydrocarbons as Gasoline	ug/kg	ND	500
EPA Method 8020 for:			
Methyl t-Butyl Ether	ug/kg	ND	50
Benzene	ug/kg	ND	5.0
Toluene	ug/kg	ND	5.0
Ethylbenzene	ug/kg	ND	5.0
Xylenes	ug/kg	ND	15

QC Summary:

% Recovery: 89
% RPD: 13

Concentrations reported as ND were not detected at or above the reporting limit.

ORGANIC CHEMICAL ANALYSIS

- EPA 601/8010, Halogenated volatile organics
- EPA 8015, Nonhalogenated volatile organics
- EPA 602/8020, Aromatic volatile organics ...
- EPA 602/8020 with total petroleum hydrocarbons as gasoline .....
- EPA 604/8040, Phenols .....
- EPA 608/8080, Organochlorine pesticides and polychlorinated biphenyls (PCBs) .....
- EPA 608/8080, Organochlorine pesticides ....
- EPA 608/8080, PCBs .....
- EPA 612/8120, Chlorinated hydrocarbons ....
- EPA 8150, Chlorinated herbicides .....
- EPA 624/8240, Volatile organics .....
- EPA 624/8240, Volatile organics with 10 additional peaks .....
- EPA 625/8250/8270, Extractable organics ...
- EPA 625/8250/8270, Extractable organics with 10 additional peaks .....
- Acetone, normal-propyl acetate, normal-propyl alcohol, and iso-propyl alcohol, Supelco method .....
- BTXE with total petroleum hydrocarbons as gasoline, headspace, LUFT Manual, soil ..
- BXTE with total petroleum hydrocarbons as gasoline by purge and trap, LUFT Manual
  - water .....
  - soil .....
- Dioxin, EPA 8280, referral .....
- Ethylene dibromide (EDB), DHS method .....
- Methyl alcohol and ethyl alcohol, Supelco method .....
- Total petroleum hydrocarbons as diesel, jet fuel, or kerosene, LUFT Manual .....
- Total petroleum hydrocarbons as gasoline, LUFT Manual .....
- Trihalomethanes, total, EPA 502.1 .....

PRIORITY POLLUTANTS

- EPA 608/8080, Pesticides and PCBs .....
- EPA 624/8240, Volatile organics .....
- EPA 625/8270, Extractable organics .....
- EPA 613/8280, Dioxin .....
- Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn) .....
- Cyanide, EPA 9010 .....
- Phenolics, EPA 420.1 .....
- Asbestos, referral .....

METALS ANALYSIS

Individual Analysis

Sample Preparation

- EPA 3010 for water for flame or hydride ..
- EPA 3020 for water for furnace or hydride.
- EPA 3030 for oil, grease or wax .....
- EPA 3050 for sediments and soil .....

- Analysis by atomic absorption (Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Au, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Si, Ag, Na, Tl, Sn, V, Zn)
  - each metal by flame .....
  - each metal by furnace .....
- As or Se by hydride generation .....
- Hg by cold vapor, including preparation ....
- Hexavalent chromium (Cr^{+6}), including preparation, EPA 7196 .....
- Organic lead, including preparation .....

Group Analysis

- California 17 metals (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn) .....
- Federal 8 metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
- 13 priority metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn) ... .

Method and Constituent	Units	Sample Type: Soil					
		1		2		3	
		Concentration	Reporting Limit	Concentration	Reporting Limit	Concentration	Reporting Limit
EPA Method 8010:							
Benzyl Chloride	ug/kg	ND	1,200	ND	1,200	ND	1,200
Bromobenzene	ug/kg	ND	1,200	ND	1,200	ND	1,200
Bromodichloromethane	ug/kg	ND	20	ND	20	ND	20
Bromoform	ug/kg	ND	20	ND	20	ND	20
Bromomethane	ug/kg	ND	60	ND	60	ND	60
Carbon Tetrachloride	ug/kg	ND	60	ND	60	ND	60
Chlorobenzene	ug/kg	ND	20	ND	20	ND	20
Chloroethane	ug/kg	ND	60	ND	60	ND	60
2-Chloroethyl Vinyl Ether	ug/kg	ND	60	ND	60	ND	60
Chloroform	ug/kg	ND	20	ND	20	ND	20
Chloromethane	ug/kg	ND	60	ND	60	ND	60
Dibromochloromethane	ug/kg	ND	20	ND	20	ND	20
Dibromomethane	ug/kg	ND	1,200	ND	1,200	ND	1,200
1,2-Dichlorobenzene	ug/kg	ND	60	ND	60	ND	60
1,3-Dichlorobenzene	ug/kg	ND	60	ND	60	ND	60
1,4-Dichlorobenzene	ug/kg	ND	60	ND	60	ND	60
Dichlorodifluoromethane	ug/kg	ND	60	ND	60	ND	60
1,1-Dichloroethane	ug/kg	ND	20	ND	20	ND	20
1,2-Dichloroethane	ug/kg	ND	20	ND	20	ND	20
1,1-Dichloroethene	ug/kg	ND	20	ND	20	ND	20

Concentrations reported as ND were not detected at or above the reporting limit.

Method and Constituent	Units	Sample Type: Soil 1 Concentration	1 Reporting Limit	2 Concentration	2 Reporting Limit	3 Concentration	3 Reporting Limit
EPA Method 8010 (Continued):							
cis and trans-1,2 Dichloroethene	ug/kg	ND	20	ND	20	ND	20
Dichloromethane	ug/kg	ND	200	ND	200	ND	200
1,2-Dichloropropane	ug/kg	ND	20	ND	20	ND	20
cis-1,3-Dichloropropene	ug/kg	ND	20	ND	20	ND	20
trans-1,3-Dichloropropene	ug/kg	ND	20	ND	20	ND	20
1,1,2,2-Tetrachloro-ethane	ug/kg	ND	20	ND	20	ND	20
1,1,1,2-Tetrachloro-ethane	ug/kg	ND	1,200	ND	1,200	ND	1,200
Tetrachloroethene	ug/kg	ND	20	ND	20	ND	20
1,1,1-Trichloroethane	ug/kg	ND	20	ND	20	ND	20
1,1,2-Trichloroethane	ug/kg	ND	20	ND	20	ND	20
Trichloroethene	ug/kg	ND	20	ND	20	ND	20
Trichlorofluoro-methane	ug/kg	ND	60	ND	60	ND	60
1,2,3-Trichloropropane	ug/kg	ND	1,200	ND	1,200	ND	1,200
Vinyl Chloride	ug/kg	ND	60	ND	60	ND	60

Concentrations reported as ND were not detected at or above the reporting limit.

Sample Type: Soil

Method and Constituent	Units	Method Blank Concentration	Method Blank Reporting Limit
EPA Method 8010:			
Benzyl Chloride	ug/kg	ND	1,200
Bromobenzene	ug/kg	ND	1,200
Bromodichloromethane	ug/kg	ND	20
Bromoform	ug/kg	ND	20
Bromomethane	ug/kg	ND	60
Carbon Tetrachloride	ug/kg	ND	60
Chlorobenzene	ug/kg	ND	20
Chloroethane	ug/kg	ND	60
2-Chloroethyl Vinyl Ether	ug/kg	ND	60
Chloroform	ug/kg	ND	20
Chloromethane	ug/kg	ND	60
Dibromochloromethane	ug/kg	ND	20
Dibromomethane	ug/kg	ND	1,200
1,2-Dichlorobenzene	ug/kg	ND	60
1,3-Dichlorobenzene	ug/kg	ND	60
1,4-Dichlorobenzene	ug/kg	ND	60
Dichlorodifluoromethane	ug/kg	ND	60
1,1-Dichloroethane	ug/kg	ND	20
1,2-Dichloroethane	ug/kg	ND	20
1,1-Dichloroethene	ug/kg	ND	20

Concentrations reported as ND were not detected at or above the reporting limit.

Sample Type: Soil

Method and Constituent	Units	Method Blank Concentration	Method Blank Reporting Limit
EPA Method 8010 (Continued):			
cis and trans-1,2 Dichloroethene	ug/kg	ND	20
Dichloromethane	ug/kg	ND	200
1,2-Dichloropropane	ug/kg	ND	20
cis-1,3-Dichloropropene	ug/kg	ND	20
trans-1,3-Dichloropropene	ug/kg	ND	20
1,1,2,2-Tetrachloro-ethane	ug/kg	ND	20
1,1,1,2-Tetrachloro-ethane	ug/kg	ND	1,200
Tetrachloroethene	ug/kg	ND	20
1,1,1-Trichloroethane	ug/kg	ND	20
1,1,2-Trichloroethane	ug/kg	ND	20
Trichloroethene	ug/kg	ND	20
Trichlorofluoro-methane	ug/kg	ND	60
1,2,3-Trichloropropane	ug/kg	ND	1,200
Vinyl Chloride	ug/kg	ND	60

QC Summary:

% Recovery: 93
% RPD: 2.5

Concentrations reported as ND were not detected at or above the reporting limit.

Sample Type: Soil

Method and Constituent:	Units	1 Concentration	1 Reporting Limit	2 Concentration	2 Reporting Limit	3 Concentration	3 Reporting Limit
EPA Method 8080							
Aldrin	ug/kg	ND	3.3	ND	3.3	ND	3.3
Alpha-BHC	ug/kg	ND	3.3	ND	3.3	ND	3.3
Beta-BHC	ug/kg	ND	3.3	ND	3.3	ND	3.3
Delta-BHC	ug/kg	ND	3.3	ND	3.3	ND	3.3
Gamma-BHC (Lindane)	ug/kg	ND	3.3	ND	3.3	ND	3.3
Chlordane	ug/kg	ND	33	ND	33	ND	33
4,4'-DDD	ug/kg	ND	3.3	ND	3.3	ND	3.3
4,4'-DDE	ug/kg	ND	3.3	ND	3.3	ND	3.3
4,4'-DDT	ug/kg	ND	3.3	ND	3.3	ND	3.3
Dieldrin	ug/kg	ND	3.3	ND	3.3	ND	3.3
Endosulfan I	ug/kg	ND	3.3	ND	3.3	ND	3.3
Endosulfan II	ug/kg	ND	3.3	ND	3.3	ND	3.3
Endosulfan Sulfate	ug/kg	ND	3.3	ND	3.3	ND	3.3
Endrin	ug/kg	ND	3.3	ND	3.3	ND	3.3
Endrin Aldehyde	ug/kg	ND	3.3	ND	3.3	ND	3.3
Heptachlor	ug/kg	ND	3.3	ND	3.3	ND	3.3
Heptachlor Epoxide	ug/kg	ND	3.3	ND	3.3	ND	3.3
Methoxychlor	ug/kg	ND	3.3	ND	3.3	ND	3.3
Toxaphene	ug/kg	ND	33	ND	33	ND	33

Concentrations reported as ND were not detected at or above the reporting limit.

Sample Type: Soil

Method and Constituent:	Units	Method Blank Concentration	Method Blank Reporting Limit
EPA Method 8080			
Aldrin	ug/kg	ND	3.3
Alpha-BHC	ug/kg	ND	3.3
Beta-BHC	ug/kg	ND	3.3
Delta-BHC	ug/kg	ND	3.3
Gamma-BHC (Lindane)	ug/kg	ND	3.3
Chlordane	ug/kg	ND	33
4,4'-DDD	ug/kg	ND	3.3
4,4'-DDE	ug/kg	ND	3.3
4,4'-DDT	ug/kg	ND	3.3
Dieldrin	ug/kg	ND	3.3
Endosulfan I	ug/kg	ND	3.3
Endosulfan II	ug/kg	ND	3.3
Endosulfan Sulfate	ug/kg	ND	3.3
Endrin	ug/kg	ND	3.3
Endrin Aldehyde	ug/kg	ND	3.3
Heptachlor	ug/kg	ND	3.3
Heptachlor Epoxide	ug/kg	ND	3.3
Methoxychlor	ug/kg	ND	3.3
Toxaphene	ug/kg	ND	33

Concentrations reported as ND were not detected at or above the reporting limit.

Sample Type: Soil

Method and Constituent:	Units	Method Blank		QC Summary	
		Concentration	Reporting Limit	% Recovery	% RPD
EPA Method 7040:					
Antimony	ug/kg	ND	79,000	96	4.2

Concentrations reported as ND were not detected at or above the reporting limit.

Page B-

Table 2-1
Leaching Potential Analysis for Gasoline and Diesel
Using Total Petroleum Hydrocarbons(TPH)
and Benzene, Toluene, Xylene and Ethylbenzene (BTX&E)

The following table was designed to permit estimating the concentrations of TPH and BTX&E that can be left in place without threatening ground water. Three levels of TPH and BTX&E concentrations were derived (from modeling) for sites which fall into categories of low, medium or high leaching potential. To use the table, find the appropriate description for each of the features. Score each feature using the weighting system shown at the top of each column. Sum the points for each column and total them. Match the total points to the allowable BTX&E and TPH levels.

SITE FEATURE	SCORE	SCORE 10 PTS IF CONDITION IS MET	SCORE	SCORE 9 PTS IF CONDITION IS MET	SCORE	SCORE 5 PTS IF CONDITION IS MET
Minimum Depth to Ground Water from the Soil Sample (feet)		>100		51-100	5	25-50\1
Fractures in subsurface (applies to foothills or mountain areas)	10	None		Unknown		Present
Average Annual Precipitation (inches)		<10	9	10-25		26-40\2
Man-made conduits which increase vertical migration of leachate	10	None		Unknown		Present
Unique site features: recharge area, coarse soil, nearby wells, etc	10	None		At least one		More than one
COLUMN TOTALS→TOTAL PTS	30	+	9	+	5	= 44
RANGE OF TOTAL POINTS		49pts or more		41 - 48 pts		40pts or less
MAXIMUM ALLOWABLE B/T/X/E LEVELS (PPM)		1/50/50/50		.3/.3/1/1		NA\3
MAXIMUM ALLOWABLE TPH LEVELS (PPM) GASOLINE		1000		100		10
MAXIMUM ALLOWABLE TPH LEVELS (PPM) DIESEL		10000		1000		100

\1 If depth is greater than 5 ft. and less than 25 ft., score 0 points.
If depth is 5 ft. or less, this table should not be used.

\2 If precipitation is over 40 inches, score 0 points.

\3 Levels for BTX&E are not applicable at a TPH concentration of 10ppm (gasoline) or 100ppm (diesel) (For explanation see step 6, page 27.)

APPENDIX C: INFORMATION REGARDING CONTAMINATED SOIL

C-1. Background:

Since the discovery of the Love Canal's toxic waste problem in the mid-1970s, public and legislative awareness of the hazardous waste issue has grown dramatically. In response to the overall issue, Congress adopted the Resource Conservation and Recovery Act (RCRA) in 1976 to regulate the generation, transport, and disposal of hazardous/toxic wastes. Within four years, however, it became apparent that neither RCRA nor other existing environmental laws adequately addressed the problem of active or inactive hazardous/toxic waste. Therefore, Congress adopted the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), also referred to as "Superfund."

Congress imposed strict liability on a broadly defined group of landowners, transporters, and generators of hazardous waste for the cost of cleaning up hazardous waste sites. The liability includes responsibility for technical studies, actual cleanup costs, and administrative and enforcement costs, as well as damages to certain natural resources. Liability may be imposed on responsible parties either after the government itself has cleaned up the site or by a court order requiring responsible parties to clean the area. Liability is broadly defined to include all persons and is joint and severable, meaning that damages can be recovered from any one or all of the responsible parties.

As originally enacted, the Superfund law raised many questions, but the courts were quick to deal with the law's ambiguities. In short, the courts found that the liability under the act was strict (current owners and operations may be held accountable for the cost of cleanup--actual responsibility for the problem does not have to be shown). Also, the courts stated that the necessary proof of causation linking the defendant to a particular waste was relatively loose.

C-2. The Cost of Cleaning Up Your (or Someone Else's) Act:

Because the Superfund law made an owner of such a facility liable for cleanup costs for past activity on the site, it raised serious questions for lending institutions and commercial developers. For example, in May of 1986 the federal court in Baltimore held Maryland Bank & Trust Company potentially liable for cleanup costs of more than $550,000 on property for which it was the mortgagee in the amount of $335,000 and which it had purchased following foreclosure for $380,000. Although the act contains an exception for lending institutions whose ownership is related solely to the protection of its security interests, the court concluded that the bank's foreclosure on the loan and ultimate acquisition of the property at foreclosure made it potentially liable as an owner of the property.

A few months after this decision, Congress amended the law by adopting the Superfund Amendments and Reauthorization Act of 1986 (SARA), which became effective on October 17, 1986. The rather complex amendments sought to clarify the obligations of commercial developers and lending institutions under the federal hazardous waste laws. The act makes it clear that real property owners may be held liable for all costs of cleaning up onsite hazardous substances unless they can prove they can satisfy the standards for the "innocent landowner" immunity.

To qualify for the immunity, any party to a land purchase agreement or financing agreement that provides for title transfer in the event of default must be able to show all of the following:

1. The release of hazardous substance was caused by an act of God or a third party.
2. The property was acquired after the hazardous waste had been disposed of.
3. There was no knowledge and no reason to know that any hazardous substance had been disposed of onsite.
4. "Due care with respect to the hazardous substance concerned" was exercised.
5. "Precautions against foreseeable acts or omissions of any third party" were taken.

The legislation links cleanup liability to a broadly defined category of parties. They are:

1. The current owner or operator of the site where the hazardous substances were deposited;
2. The owner or operator of the site at the time the hazardous substances were deposited;
3. Generators of hazardous substances, who arranged for disposal;
4. Transporters who accepted hazardous waste for transport and selected the disposal site.

The definitions combined with the joint and several aspect of the law infers that landlords (owners) and tenants can be equally liable for cleanup costs. Therefore, it stands to reason that a tenant which disposed of a hazardous material, intentionally or not, would create a cleanup liability for itself and the landlord.

The major reason for this increased attention is the national concern over the contamination of primate and municipal wells and springs. The EPA estimates that 50 percent of the U.S. population depends on potable groundwater. In rural areas, the estimate is closer to 95 percent. Waste disposal sites and leaking underground storage tanks are the primary sources of such contamination.

This legislation, in combination with new federal regulations governing underground storage tanks containing petroleum and hazardous substances which were issued September 23, 1988, create additional concerns for landowners. The EPA published Underground Storage Tank (UST) regulations in the Federal Register (40 CFR Part 280 and 281). Section 9003 of RCRA requires the EPA to establish requirements for leak detection, leak prevention, financial responsibility and corrective actions for all USTs containing regulated substances. The effective date of the regulations was December 22, 1988. These regulations in combination with the required state implementation regulations place ongoing requirements on virtually every owner of a property which contains an UST.

C-3. Who Should be Wary?

Businesses most likely to feel the greatest impact of these regulations include industrial operations, industrial and agricultural terminal operations, service stations, and anyone buying or selling property with underground storage tanks.

To real estate owners, developers, lenders, and practitioners, this entire body of regulations and associated state statutes have created and will continue to create obstacles in all forms of transactions. Not only are the primary responsible parties affected but innocent, adjacent landowners are affected as well. As stated earlier, this innocent, adjacent landowner may be excluded from liability; however, the fact remains that his property must be cleaned up prior to finalizing any transaction. In actual practice this innocent party will in all probability undertake the cleanup and initiate action against the source of the contamination.

The litany of examples of the implementation of these regulations is creating serious reservations on the part of developers and major corporations before entering into a real estate contract. Instances where leaking tanks were discovered after a property had been purchased and development commenced, have led to serious financial concerns and bankruptcy in some cases. Additionally, the tentacles from one of these problems are so lengthy and entangled that a solution is usually the resultant of extended litigation and extensive costs.

In many cases, even though the wastes have been removed and the property now shows a clean bill of health, their effects linger. The taint of hazardous waste will be part of the appraisal of such a parcel of property for recorded history.

As the marketability of such contaminated properties is impaired, logically lenders are also understandably aware of contaminated properties. If a bond insuring cleanup costs can be secured, as in the case for many mildly contaminated properties, a major obstacle has been overcome. However, some lenders refuse to advance funds for such a property, bond or not, strictly as a matter of policy. Usually a limited number of lenders can be found for mildly contaminated sites.

There is virtually no chance of obtaining mortgage financing for a seriously contaminated property. Many lenders are still formulating their policies on dealing with contaminated properties. With the possibility of lenders being held directly liable for cleanup costs, via foreclosure, as well as the subordination of their lien to state and federal "super-liens," borrowers can expect increased attention, on the lender's part, to potential environmental risks.

C-4. Protect Yourself!

Buyers and sellers can protect themselves by a relatively few techniques. First, they should state in each and every contract who will pay for and be responsible for an environmental problem. This contractual affixing of responsibility is only as certain as the financial ability of the parties may reflect.

Buyers should also obtain warranties or representations from sellers that establish there is no known contamination, that the seller and its agents have done nothing to contaminate, or if that is not the case, they should fully disclose the actual situation. Sellers retaining an interest in the property should also ensure that nothing will be done to the property that will make them liable for cleanup in the future. Warranties, covenants, and indemnifications are a way to provide some protection in the contract itself.

One method of protection which provides a level of "due diligence" involves the undertaking of environmental and hazardous waste investigations and testing. Environmental checks for contamination should include a review of applicable federal and state laws as well as county and municipal environmental ordinances. In many areas local officials maintain lists of properties that may have contamination problems. A search of those records may warn a buyer if the property is contaminated or located near a contaminated property.

For companies maintaining ownership of sites where there is the potential for inadvertent release of hazardous or toxic materials, continuous monitoring and testing is the only insurance against a significant reduction in land values. Once a property has been determined to have been contaminated, its worth is permanently minimized. Therefore, continuous monitoring and testing and requisite cleanup is the prudent approach for the maintenance of land value and future marketability.

Note: This Appendix is for general information only and should not be used as a substitute for complete legal advice by an attorney.

APPENDIX D: ENVIRONMENTAL RECORDS REVIEW

EnviroScan Records Review

Government Environmental Records Database Review

Subject Property Information

Property Name:	SAN PABLO AVE.	**Computed Latitude:**	122° 16' 36" West
Legal Description:	NONE	**Computed Longitude:**	37° 49' 14" North
Address:	2942 SAN PABLO AVENUE	**Thomas Guide:**	9 A2
City, State & Zip:	OAKLAND, CA 94608		

Report Information

Number:	NO99008	**Date:**	November 09, 1999
Base Radius:	0.500 mile	**Map Radius:**	0.500 mile

Subscriber Information

Company:	GLOBE SOIL ENGINEERS	**Phone Number:**	(510) 549-2494
Contact:	ZACK ALDINE	**Fax Number:**	* Not Reported *
Address:	6114 LA SALLE AVE, SUITE 167		
City, State & Zip:	OAKLAND, CA 94611		

Disclaimer and Other Information

This report is limited in scope and accuracy to the available government records lists searched. This report represents only a search of those records as of the date specified herein. The specific government records searched may not include all sites of environmental contamination or risk. Inclusion of individual sites as pulled from the government lists is determined based exclusively on the address or location information provided by the government, which may not be complete. The subscriber acknowledges that Natec International, Inc. assumes no responsibility for the completeness or accuracy of the recorded lists as compiled by the various government agencies, or for any inclusion or lack thereof of individual sites caused by any such incomplete or inaccurate information. The purpose of this report is for a records search and is not a substitute for a complete Phase I Environmental Audit.

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Statistical Review

Property Information

Address	2942 SAN PABLO AVENUE	**Latitude**	122° 16' 36" West
City,State & Zip	OAKLAND,CA 94608	**Longitude**	37° 49' 14" North
Contact	GLOBE SOIL ENGINEERS	**Base Radius**	0.500 mile
Contact Phone	(510) 549-2494	**Map Radius**	0.500 mile

Federal Databases	Data Date	Radius (Miles)	within ¼ mile	¼ to ½ mile	½ to 1 mile	over 1 mile	Unknown Distance	Total
US-CERCLIS	05/27/99	0.500	0	1	0	--	0	1
US-ERNS	05/27/99	0.500	3	14	0	--	0	17
US-LIENS	07/01/99	0.500	0	0	0	--	0	0
US-NPL	05/27/99	0.500	0	0	0	--	0	0
US-RCRA	07/17/99	0.500	2	11	0	--	0	13

State Databases	Data Date	Radius (Miles)	within ¼ mile	¼ to ½ mile	½ to 1 mile	over 1 mile	Unknown Distance	Total
CA-CAL-SITES	06/08/99	0.500	2	1	0	--	0	3
CA-CORTESE	08/31/99	0.500	2	8	0	--	0	10
CA-LUST	07/20/99	0.500	6	14	0	--	0	20
CA-SARA	07/22/99	0.500	0	0	0	--	0	0
CA-SWIS	05/26/99	0.500	0	0	0	--	0	0
CA-UST	07/02/99	0.500	5	22	0	--	0	27
CA-WDS	08/01/99	0.500	0	0	0	--	0	0
CA-WMUDS	04/01/98	0.500	0	0	0	--	0	0

Site Address

2942 SAN PABLO AVENUE
OAKLAND, CA, 94608

Report Number

NO99008

Database Symbol Representation

- SEARCH SITE
- ERNS
- UST
- CAL-SITES
- CORTESE
- LUST
- CERCLIS

* Map coordinates are provided as a convenience only. Estimated distance is based on the mapping information provided by the U.S. Government Tiger files and may vary from local street map guides.

Quick Reference List

Page	Site	Address	Dist/Dir	Map Key	List
9	WSB ELECTRIC COMPANY	3032 MARKET ST	0.036 NE		CA-LUST
26	W.S.B. ELECTRIC	3032 MARKET ST	0.036 NE		CA-UST
31	TUNE UP MASTERS	2901 SAN PABLO AVENUE	0.056 SE		US-ERNS
5	CAL TECH METAL FINISHERS INC	841 31ST ST	0.107 NE		US-RCRA
32	UNKNOWN	841 31ST ST.	0.107 NE		US-ERNS
22	CAL TECH METALS	841 EAST 31ST STREET	0.107 NE		CA-CAL-SITES
26	SERVISCO, GOLDEN STATE LINEN	958 28TH ST	0.126 SW		CA-UST
10	KENT CROWLEY	3016 FILBERT ST	0.133 NW		CA-LUST
5	A AND B AUTO COMPANY	2700 MARKET ST	0.146 SW		US-RCRA
10	AB CO WATERPROOFING	3135 FILBERT ST	0.174 NW		CA-LUST
11	MCCLYMOND HIGH SCHOOL	2607 MYRTLE ST	0.210 SW		CA-LUST
26	MCCLYMONDS HIGH SCHOOL [POOL]	2607 MYRTLE ST	0.210 SW		CA-UST
20	LOOMIS ARMORED INC	936 BROCKHURST	0.213 NW		CA-CORTESE
11	LOOMIS ARMORED INC	936 BROCKHURST ST	0.213 NW		CA-LUST
27	LOOMIS ARMORED CAR SERVICES IN	936 BROCKHURST ST	0.213 NW		CA-UST
20	FORMER CIVIC BANK OF COMM	730 29TH	0.221 SE		CA-CORTESE
12	CALOUS BLDG	730 29TH ST	0.221 SE		CA-LUST
27	CALOU'S LINEN SERVICE	730 29TH ST	0.221 SE		CA-UST
32	SIGNS ALIVE	730 29TH ST NO 106	0.221 SE		US-ERNS
22	OAKLAND LAUNDRY COMPANY	730 29TH STREET	0.221 SE		CA-CAL-SITES
20	TONG PROPERTY	3133 MARTIN LUTHER KING	0.305 NE		CA-CORTESE
1	HARRIS DRY CLEANERS	2801 MARTIN LUTHER KING JR. WAY	0.306 SE		US-CERCLIS
20	CALIFORNIA ELECTRIC COMPA	3015 ADELINE	0.312 NW		CA-CORTESE
6	CALIFORNIA ELECTRIC CO	3015 ADELINE ST	0.312 NW		US-RCRA
12	CALIFORNIA ELECTRIC COMPANY	3015 ADELINE ST	0.312 NW		CA-LUST
27	CALIFORNIA ELECTRIC CO.	3015 ADELINE ST	0.312 NW		CA-UST
13	OAKLAND FIRE STATION #5	934 34TH ST	0.316 NW		CA-LUST
27	FIRE HOUSE #5	934 34TH ST	0.316 NW		CA-UST
20	AUTO TECH WEST	2703 MARTIN LUTHER KING	0.320 SE		CA-CORTESE
27	AUTO TECH WEST	2703 MARTIN LUTHER KING JR WAY	0.320 SE		CA-UST
33	UNKNOWN	2500 SAN PABLO	0.325 SE		US-ERNS
6	TESTING ENGINEERS, INC	2811 ADELINE ST	0.327 NW		US-RCRA
13	CAL WEST PERIODICALS	2400 FILBERT ST	0.337 SW		CA-LUST
33	UNKNOWN	850 ATHENS AVE.	0.343 SW		US-ERNS
27	DOUGCO	1073 34TH ST	0.347 NW		CA-UST
6	FRYER INDUSTRIES, INC.	1073 34TH STREET	0.347 NW		US-RCRA
6	NEWMAN STAMPING & MACHINE CO#	1001 24TH ST	0.347 SW		US-RCRA
14	THRIFTY OIL	3400 SAN PABLO AVE	0.361 NW		CA-LUST
28	THRIFTY OIL CO. #049	3400 SAN PABLO AVE	0.361 NW		CA-UST
28	ELLIOTT AND ELLIOTT CO.	2336 MARKET ST	0.364 SW		CA-UST
28	SHELL SERVICE STATION	3420 SAN PABLO AVE	0.375 NW		CA-UST
7	SHELL OIL CO .	3420 SAN PABLO AVE/35TH	0.375 NW		US-RCRA
28	AUTOMOBILE SERVICE CO	820 ISABELLA ST	0.386 SE		CA-UST
14	AERVOE PACIFIC	2528 ADELINE ST	0.401 SW		CA-LUST
28	E-Z-EST PRODUCTS CO., INC.	2528 ADELINE ST	0.401 SW		CA-UST
34	M&J TRANSMISSION	845 36TH STREET	0.411 NE		US-ERNS
15	GILBERT LOPEZ	633 SYCAMORE ST	0.415 SE		CA-LUST
28	GIL LOPEZ	633 SYCAMORE ST	0.415 SE		CA-UST
15	CAHON ASSOCIATES INC	3501 SAN PABLO AVE	0.424 NW		CA-LUST
7	QUALITY BODY & FENDER	2510 MARTIN LUTHER KINGS WAY	0.427 SE		US-RCRA
29	SAFEWAY STORES, INC. ICE CREAM	2240 FILBERT ST	0.430 SW		CA-UST
35	SAFEWAY CORP	2240 FILBERT ST	0.430 SW		US-ERNS
35	SAFEWAY	2240 FILBERT ST.	0.430 SW		US-ERNS
34	SAFEWAY	2240 FILVER ST.	0.430 SW		US-ERNS
16	ARCO	889 GRAND AVE W	0.435 SW		CA-LUST
29	ARCO FACILITY #02169	889 W GRAND AVE	0.435 SW		CA-UST
36	ARCO	889 W. GRAND AVENUE	0.435 SW		US-ERNS
29	91853	850 W GRAND AVE	0.440 SW		CA-UST
29	MODERN MAIL SERVICE, INC.	2836 UNION ST	0.441 NW		CA-UST

Quick Reference List (continued)

Page	Site	Address	Dist/Dir	Map Key	List
36	UNKNOWN	1221 26TH ST.	0.446 SW		US-ERNS
29	REL'S FOODS INC.	975 W GRAND AVE	0.449 SW		CA-UST
16	COMMERCIAL PROPERTY	1000 GRAND AVE W	0.452 SW		CA-LUST
7	LANGENDORF UNITED BAKERIES INC	1000 W GRAND AVE	0.452 SW		US-RCRA
29	GOOD STUFF FOOD CO	1000 W GRAND AVE	0.452 SW		CA-UST
21	CITY OF PARIS CLEANERS	3516 ADELINE	0.455 NW		CA-CORTESE
30	CITY OF PARIS CLEANING AND DRY	3516 ADELINE ST	0.455 NW		CA-UST
37	UNKNOWN	3516 ADELINE ST	0.455 NW		US-ERNS
17	EASTSHORE LINES INC	2400 ADELINE ST	0.457 SW		CA-LUST
30	BUS STORAGE YARD EASTSHORE	2400 ADELINE ST	0.457 SW		CA-UST
37	UNKNOWN	2400 ADELINE ST.	0.457 SW		US-ERNS
38	CHEMICAL FOR RESEARCH CO.	1275 30TH ST	0.461 NW		US-ERNS
7	WILLIAM D WHITE CO, INC	3427 MAGNOLIA ST	0.471 NW		US-RCRA
17	SCHOONBROOD BARBAGELATA PROP	554 27TH ST.	0.471 SE		CA-LUST
21	COLLINS PROPERTY	2452 MAGNOLIA	0.473 SW		CA-CORTESE
18	BLOUNT INTERNATIONAL LIMITED	2452 MAGNOLIA ST	0.473 SW		CA-LUST
30	BLOUNT INTERNATIONAL, LTD.	2452 MAGNOLIA ST	0.473 SW		CA-UST
30	EAST BAY SHEET METAL	2914 POPLAR ST	0.481 NW		CA-UST
8	ZERO WASTE SYSTEMS, INC.	2928 POPLAR ST	0.481 NW		US-RCRA
8	CHEMICALS FOR RESEARCH & IND	2928 POPLAR ST	0.481 NW		US-RCRA
38	UNKNOWN	2928 POPLAR ST	0.481 NW		US-ERNS
30	STEVE TOOL	2340 ADELINE ST OAKLAND	0.481 SW		CA-UST
21	MEADERS DRY CLEANING	800 GRAND	0.482 SE		CA-CORTESE
8	MEADERS CLEANERS	800 W GRAND AVE	0.482 SE		US-RCRA
18	LINFORD AIR & REFRIGERATION	2850 POPLAR ST	0.485 NW		CA-LUST
30	LINFORD AIR & REFRIGERATION	2850 POPLAR ST	0.485 NW		CA-UST
39	UNK (DUMPED)	3001 PERALTA	0.488 NW		US-ERNS
22	LAHER SPRING AND ELECTRIC CAR	2419 MAGNOLIA STREET	0.489 SW		CA-CAL-SITES
21	NED CLYDE CONSTRUCTION	2311 ADELINE	0.494 SW		CA-CORTESE
19	NED CLYDE CONSTRUCTION	2311 ADELINE ST	0.494 SW		CA-LUST
21	FYNE BUILDING	774 GRAND	0.497 SE		CA-CORTESE
39	MR. LINN	830 22ND ST	0.498 SW		US-ERNS

CERCLIS

Name:
Comprehensive Environmental Response, Compensation and Liability Information System

Reporting Agency:
US Environmental Protection Agency
Office of Solid Waste and Emergency Response
http://www.epa.gov/oerrpage/superfund/
(800) 775-5037

Information:

Database Last Updated:	April 28, 1999	Radius Searched:	0.500 miles
Database Last Checked:	May 27, 1999	Total Records Searched:	10512

Description:
The U.S. Environmental Protection Agency has compiled this list of contaminated properties for designation under the Federal Superfund Program pursuant to the *Comprehensive Environmental Response Conservation and Liability Act (CERCLA)*. These sites represent environmental concern for the discharge of hazardous materials by hazardous waste generators, treatment and storage facilities, and hazardous waste disposal sites.

Site Information

Distance & Direction:	0.306 miles Southeast		
Name:	HARRIS DRY CLEANERS	**ID Number:**	CA0000080309
Address:	2801 MARTIN LUTHER KING JR. WAY		
City, State & Zip:	OAKLAND, CA 94609		
Ownership:	Unknown	**Federal Facility:**	No
Incident Type:	* Not Reported *	**RCRA Facility:**	No

Event Information

Name:	Type:	Start Date:	Completed Date:
DISCOVERY	DS	* Not Reported *	December 17, 1993

NPL

Name:
National Priorities List

Reporting Agency:
US Environmental Protection Agency
Office of Solid Waste and Emergency Response
http://www.epa.gov/superfund/whatissf/npl_hrs.htm
(703) 603-8881

Information:

Database Last Updated:	April 28, 1999	Radius Searched:	0.500 miles
Database Last Checked:	May 27, 1999	Total Records Searched:	1202

Description:
The NPL is a subset of CERCLIS and lists some of the nation's most dangerous sites of uncontrolled or hazardous waste which require cleanup. Also known as the Superfund List, the sites are scored according to the hazardous ranking system

The database listing as of the above date shows no locations within a ½ mile radius of the subject property.

LIENS

Name:
Federal Superfund Liens

Reporting Agency:
US Environmental Protection Agency
Office of Solid Waste and Emergency Response
(800) 775-5037

Information:
Database Last Updated: January 01, 1998
Database Last Checked: July 01, 1999

Radius Searched: 0.500 miles
Total Records Searched: 18

Description:
Under the authority granted by the *Comprehensive Environmental Response Conservation and Liability Act (CERCLA)*, the E.P.A. is authorized to place a Superfund Lien on property that the agency has spent money on for remidial action or notified the owner of the potential of liability for remidial action.

The database listing as of the above date shows no locations within a ½ mile radius of the subject property.

SWIS

Name:
Solid Waste Information System

Reporting Agency:
California Integrated Waste Management Board
8800 Cal Center Drive - Sacramento, CA 95826
http://www.ciwmb.ca.gov/SWIS/
(916) 255-2331

Information:

Database Last Updated:	May 26, 1999	Radius Searched:	0.500 miles
Database Last Checked:	May 26, 1999	Total Records Searched:	3509

Description:
The California Integrated Waste Management Board maintains this list pursuant to the Solid Waste Management Resource Recovery Act of 1972. The list contains an inventory of active, inactive and closed solid waste disposal and transfer facilities.

The database listing as of the above date shows no locations within a ½ mile radius of the subject property.

RCRA

Name:
Resource Conservation and Recovery Act

Reporting Agency:
US Environmental Protection Agency
Office of Solid Waste and Emergency Response
http://www.epa.gov/osw/
(202) 260-4348

Information:

Database Last Updated:	June 29, 1999	Radius Searched:	0.500 miles
Database Last Checked:	July 17, 1999	Total Records Searched:	302610

Description:
RCRIS *(Resource Conservation and Recovery Information System)* contains information on handlers regulated by the US Environmental Protection Agency under the *Resource Conservation and Recovery Act (RCRA).*

Site Information

Distance & Direction:	0.107 miles Northeast		
Site Name:	CAL TECH METAL FINISHERS INC		
Address:	841 31ST ST	EPA ID Number:	CAD040014342
City, State & Zip:	OAKLAND, CA 94608	Transporter:	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	Title:	ENVIRO MANAGER
Address:	841 THIRTY FIRST ST	Phone Number:	[415] 653-5054
City, State & Zip:	OAKLAND, CA 94608		

Site Information

Distance & Direction:	0.146 miles Southwest		
Site Name:	A AND B AUTO COMPANY		
Address:	2700 MARKET ST	EPA ID Number:	CAD028772309
City, State & Zip:	OAKLAND, CA 94607	Transporter:	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	Title:	ENVIRO MANAGER
Address:	2700 MARKET STREET	Phone Number:	[415] 832-2756
City, State & Zip:	OAKLAND, CA 94607		

RCRA (continued)

Site Information

Distance & Direction:	0.312 miles Northwest		
Site Name:	CALIFORNIA ELECTRIC CO		
Address:	3015 ADELINE ST	EPA ID Number:	CAD982438343
City, State & Zip:	OAKLAND, CA 94608	Transporter:	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	Title:	ENVIRO MANAGER
Address:	P O BOX 8065	Phone Number:	[415] 655-6100
City, State & Zip:	OAKLAND, CA 94662		

Site Information

Distance & Direction:	0.327 miles Northwest		
Site Name:	TESTING ENGINEERS, INC		
Address:	2811 ADELINE ST	EPA ID Number:	CAD981383847
City, State & Zip:	OAKLAND, CA 94608	Transporter:	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	Title:	ENVIRO MANAGER
Address:	PO BOX 24075	Phone Number:	[415] 835-3142
City, State & Zip:	OAKLAND, CA 94623		

Site Information

Distance & Direction:	0.347 miles Southwest		
Site Name:	NEWMAN STAMPING & MACHINE CO#		
Address:	1001 24TH ST	EPA ID Number:	CAD009108564
City, State & Zip:	OAKLAND, CA 94607	Transporter:	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	Title:	ENVIRO MANAGER
Address:	PO BOX 8422	Phone Number:	[415] 832-5523
City, State & Zip:	OAKLAND, CA 94607		

Site Information

Distance & Direction:	0.347 miles Northwest		
Site Name:	FRYER INDUSTRIES, INC.		
Address:	1073 34TH STREET	EPA ID Number:	CAD981453475
City, State & Zip:	OAKLAND, CA 94608	Transporter:	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	Title:	ENVIRO MANAGER
Address:	1073 THIRTY FOURTH STREET	Phone Number:	[415] 654-6256
City, State & Zip:	OAKLAND, CA 94608		

RCRA (continued)

Site Information

Distance & Direction:	0.375 miles Northwest		
Site Name:	SHELL OIL CO		
Address:	3420 SAN PABLO AVE/35TH	**EPA ID Number:**	CAD981402688
City, State & Zip:	OAKLAND, CA 94608	**Transporter:**	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	SONDRA BIENVENU	**Title:**	DISP COORD
Address:	P O BOX 4453	**Phone Number:**	[713] 241-2258
City, State & Zip:	HOUSTON, TX 77210-4453		

Site Information

Distance & Direction:	0.427 miles Southeast		
Site Name:	QUALITY BODY & FENDER		
Address:	2510 MARTIN LUTHER KINGS WAY	**EPA ID Number:**	CAD982044315
City, State & Zip:	OAKLAND, CA 94612	**Transporter:**	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	**Title:**	ENVIRO MANAGER
Address:	2510 MARTIN LUTHER KINGSWAY	**Phone Number:**	[415] 555-1212
City, State & Zip:	OAKLAND, CA 94612		

Site Information

Distance & Direction:	0.452 miles Southwest		
Site Name:	LANGENDORF UNITED BAKERIES INC		
Address:	1000 W GRAND AVE	**EPA ID Number:**	CAD980887095
City, State & Zip:	OAKLAND, CA 94607	**Transporter:**	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	**Title:**	ENVIRO MANAGER
Address:	1695 FIFTY SEVENTH ST	**Phone Number:**	[408] 286-9600
City, State & Zip:	SAN JOSE, CA 95112		

Site Information

Distance & Direction:	0.471 miles Northwest		
Site Name:	WILLIAM D WHITE CO, INC		
Address:	3427 MAGNOLIA ST	**EPA ID Number:**	CAD009128885
City, State & Zip:	OAKLAND, CA 94608	**Transporter:**	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	**Title:**	ENVIRO MANAGER
Address:	3427 MAGNOLIA ST	**Phone Number:**	[415] 658-8167
City, State & Zip:	OAKLAND, CA 94608		

RCRA (continued)

Site Information

Distance & Direction:	0.481 miles Northwest		
Site Name:	ZERO WASTE SYSTEMS, INC.		
Address:	2928 POPLAR ST	EPA ID Number:	CAD071692016
City, State & Zip:	OAKLAND, CA 94608	Transporter:	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	Title:	ENVIRO MANAGER
Address:	2928 POPLAR ST	Phone Number:	[415] 893-8257
City, State & Zip:	OAKLAND, CA 94608		

Site Information

Distance & Direction:	0.481 miles Northwest		
Site Name:	CHEMICALS FOR RESEARCH & IND		
Address:	2928 POPLAR ST	EPA ID Number:	CAD982512600
City, State & Zip:	OAKLAND, CA 94608	Transporter:	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	Title:	ENVIRO MANAGER
Address:	2928 POPLAR ST	Phone Number:	[415] 893-8257
City, State & Zip:	OAKLAND, CA 94608		

Site Information

Distance & Direction:	0.482 miles Southeast		
Site Name:	MEADERS CLEANERS		
Address:	800 W GRAND AVE	EPA ID Number:	CAD981580822
City, State & Zip:	OAKLAND, CA 94607	Transporter:	No
TSD Type:	* Not Reported *		
Generator Type:	LARGE QUANTITY GENERATOR		

Contact Information

Contact Name:	ENVIRONMENTAL MANAGER	Title:	ENVIRO MANAGER
Address:	800 W GRAND AVE	Phone Number:	[415] 444-2954
City, State & Zip:	OAKLAND, CA 94607		

LUST

Name:
Leaking Underground Storage Tanks

Reporting Agency:
California State Water Resources Control Board
http://www.swrcb.ca.gov/~cwphome/lustis/index.html
(916) 227-4400

Information:

Database Last Updated:	July 13, 1999	Radius Searched:	0.500 miles
Database Last Checked:	July 20, 1999	Total Records Searched:	35062

Description:
The State of California Water Resources Control Board (WRCB) provides a list of all leaks of hazardous substances from underground storage tanks. This database provides information on contamination case types and in some cases remediation activities.

Site Information

Distance & Direction:	0.036 miles Northeast	**Regional Board:**	02
Name:	WSB ELECTRIC COMPANY		
Address:	3032 MARKET ST	**Case Number:**	3766
City, State & Zip:	OAKLAND, CA 94608	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	DIESEL
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site
Excavate and Treat	Remove contaminated soil and treat (including spreading or land farming)

Noteable Dates

Event:	Date:
Leak was originally reported	October 31, 1989
Preliminary site assessment plan was submitted	July 10, 1993
Closure letter issued (site closed)	April 16, 1997
Leak was last reviewed	April 28, 1997

LUST (continued)

Site Information

Distance & Direction:	0.133 miles Northwest	**Regional Board:**	02
Name:	KENT CROWLEY		
Address:	3016 FILBERT ST	**Case Number:**	4156
City, State & Zip:	OAKLAND, CA 94608	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	NOT REPORTED
Status:	* Not Reported *		
Case Type:	Only soil has been affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site

Noteable Dates

Event:	Date:
Leak was originally reported	May 12, 1992
Preliminary site assessment plan was submitted	June 17, 1992
Closure letter issued (site closed)	November 19, 1992
Leak was last reviewed	October 19, 1994

Site Information

Distance & Direction:	0.174 miles Northwest	**Regional Board:**	02
Name:	AB CO WATERPROOFING		
Address:	3135 FILBERT ST	**Case Number:**	4601
City, State & Zip:	OAKLAND, CA 94608	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	NOT REPORTED
Status:	Preliminary site assessment underway.		
Case Type:	Only soil has been affected		

Noteable Dates

Event:	Date:
Leak was originally reported	October 12, 1993
Leak was last reviewed	September 30, 1998

LUST (continued)

Site Information

Distance & Direction:	0.210 miles Southwest	**Regional Board:**	02
Name:	MCCLYMOND HIGH SCHOOL		
Address:	2607 MYRTLE ST	**Case Number:**	4027
City, State & Zip:	OAKLAND, CA 94607	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	NOT REPORTED
Status:	Preliminary site assessment underway.		
Case Type:	Other resources are affected		

Noteable Dates

Event:	Date:
Leak was originally reported	December 23, 1996
Leak was last reviewed	November 24, 1997

Site Information

Distance & Direction:	0.213 miles Northwest	**Regional Board:**	02
Name:	LOOMIS ARMORED INC		
Address:	936 BROCKHURST ST	**Case Number:**	1849
City, State & Zip:	OAKLAND, CA 94608	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	DIESEL
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
No Action Taken	No indication that action was taken

Noteable Dates

Event:	Date:
Leak was originally reported	March 09, 1990
Preliminary site assessment plan was submitted	October 26, 1990
Closure letter issued (site closed)	July 07, 1997
Leak was last reviewed	August 22, 1997

LUST (continued)

Site Information

Distance & Direction:	0.221 miles Southeast	Regional Board:	02
Name:	CALOUS BLDG		
Address:	730 29TH ST	Case Number:	4476
City, State & Zip:	OAKLAND, CA 94609	County:	ALAMEDA
Lead Agency:	FEDERAL	Substance:	DIESEL
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Noteable Dates

Event:	Date:
Leak was originally reported	October 22, 1986
Closure letter issued (site closed)	September 15, 1997
Leak was last reviewed	July 01, 1998

Site Information

Distance & Direction:	0.312 miles Northwest	Regional Board:	02
Name:	CALIFORNIA ELECTRIC COMPANY		
Address:	3015 ADELINE ST	Case Number:	3702
City, State & Zip:	OAKLAND, CA 94608	County:	ALAMEDA
Lead Agency:	FEDERAL	Substance:	NOT REPORTED
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site

Noteable Dates

Event:	Date:
Leak was originally reported	October 10, 1990
Closure letter issued (site closed)	July 08, 1997
Leak was last reviewed	July 10, 1997

LUST (continued)

Site Information

Distance & Direction:	0.316 miles Northwest	**Regional Board:**	02
Name:	OAKLAND FIRE STATION #5		
Address:	934 34TH ST	**Case Number:**	4599
City, State & Zip:	OAKLAND, CA 94609	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	NOT REPORTED
Status:	* Not Reported *		
Case Type:	Only soil has been affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site

Noteable Dates

Event:	Date:
Leak was originally reported	July 23, 1993
Closure letter issued (site closed)	February 16, 1996
Leak was last reviewed	March 18, 1996

Site Information

Distance & Direction:	0.337 miles Southwest	**Regional Board:**	02
Name:	CAL WEST PERIODICALS		
Address:	2400 FILBERT ST	**Case Number:**	3774
City, State & Zip:	OAKLAND, CA 94607	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	NOT REPORTED
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
No Action Required	Incident in minor, requiring no remedial action

Noteable Dates

Event:	Date:
Leak was originally reported	October 30, 1991
Preliminary site assessment plan was submitted	October 25, 1991
Closure letter issued (site closed)	October 02, 1995
Leak was last reviewed	August 07, 1996

LUST (continued)

Site Information

Distance & Direction:	0.361 miles Northwest	Regional Board:	02
Name:	THRIFTY OIL		
Address:	3400 SAN PABLO AVE	Case Number:	4057
City, State & Zip:	OAKLAND, CA 94608	County:	ALAMEDA
Lead Agency:	FEDERAL	Substance:	NOT REPORTED
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
Remove Free Product	Remove floating product from water table

Noteable Dates

Event:	Date:
Leak was originally reported	October 02, 1986
Pollution characterization began	November 30, 1986
Leak was last reviewed	January 21, 1998

Site Information

Distance & Direction:	0.401 miles Southwest	Regional Board:	02
Name:	AERVOE PACIFIC		
Address:	2528 ADELINE ST	Case Number:	266
City, State & Zip:	OAKLAND, CA 94607	County:	ALAMEDA
Lead Agency:	FEDERAL	Substance:	NOT REPORTED
Status:	Preliminary site assessment underway.		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
No Action Taken	No indication that action was taken

Noteable Dates

Event:	Date:
Leak was originally reported	June 22, 1987
Leak was last reviewed	January 02, 1998

LUST (continued)

Site Information

Distance & Direction:	0.415 miles Southeast	**Regional Board:**	02
Name:	GILBERT LOPEZ		
Address:	633 SYCAMORE ST	**Case Number:**	4579
City, State & Zip:	OAKLAND, CA 94612	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	MISC. MOTOR VEHICLE FUELS
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site

Noteable Dates

Event:	Date:
Leak was originally reported	May 10, 1993
Closure letter issued (site closed)	November 03, 1994
Leak was last reviewed	March 13, 1995

Site Information

Distance & Direction:	0.424 miles Northwest	**Regional Board:**	02
Name:	CAHON ASSOCIATES INC		
Address:	3501 SAN PABLO AVE	**Case Number:**	3701
City, State & Zip:	OAKLAND, CA 94608	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	MINERAL SPIRITS
Status:	* Not Reported *		
Case Type:	Only soil has been affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site

Noteable Dates

Event:	Date:
Leak was originally reported	November 19, 1990
Closure letter issued (site closed)	October 08, 1998
Leak was last reviewed	January 08, 1999

LUST (continued)

Site Information

Distance & Direction:	0.435 miles Southwest	**Regional Board:**	02
Name:	ARCO		
Address:	889 GRAND AVE W	**Case Number:**	3793
City, State & Zip:	OAKLAND, CA 94607	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	REGULAR GASOLINE
Status:	Preliminary site assessment underway.		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site

Noteable Dates

Event:	Date:
Leak was originally reported	May 10, 1991
Preliminary site assessment plan was submitted	October 30, 1991
Preliminary site assessment began	July 07, 1992
Leak was last reviewed	December 02, 1997

Site Information

Distance & Direction:	0.452 miles Southwest	**Regional Board:**	02
Name:	COMMERCIAL PROPERTY		
Address:	1000 GRAND AVE W	**Case Number:**	3994
City, State & Zip:	OAKLAND, CA 94607	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	NOT REPORTED
Status:	* Not Reported *		
Case Type:	Only soil has been affected		

Noteable Dates

Event:	Date:
Leak was originally reported	September 27, 1994
Closure letter issued (site closed)	June 03, 1996
Leak was last reviewed	August 18, 1997

Site Information

Distance & Direction:	0.457 miles Southwest	**Regional Board:**	02
Name:	EASTSHORE LINES INC		
Address:	2400 ADELINE ST	**Case Number:**	1450
City, State & Zip:	OAKLAND, CA 94607	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	NAPTHA DISTILLATE
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site

Noteable Dates

Event:	Date:
Leak was originally reported	June 14, 1994
Closure letter issued (site closed)	March 02, 1999
Leak was last reviewed	April 01, 1999

Site Information

Distance & Direction:	0.471 miles Southeast	**Regional Board:**	02
Name:	SCHOONBROOD BARBAGELATA PROP		
Address:	554 27TH ST	**Case Number:**	3923
City, State & Zip:	OAKLAND, CA 94612	**County:**	ALAMEDA
Lead Agency:	FEDERAL	**Substance:**	GASOLINE
Status:	* Not Reported *		
Case Type:	The type of resources affected or extent of the resources affected are unknown		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site

Noteable Dates

Event:	Date:
Leak was originally reported	January 18, 1995
Closure letter issued (site closed)	January 29, 1997
Leak was last reviewed	January 31, 1997

LUST (continued)

Site Information

Distance & Direction:	0.473 miles Southwest	Regional Board:	02
Name:	BLOUNT INTERNATIONAL LIMITED		
Address:	2452 MAGNOLIA ST	Case Number:	3788
City, State & Zip:	OAKLAND, CA 94607	County:	ALAMEDA
Lead Agency:	FEDERAL	Substance:	MISC. MOTOR VEHICLE FUELS
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site

Noteable Dates

Event:	Date:
Leak was originally reported	June 21, 1988
Closure letter issued (site closed)	April 21, 1999
Leak was last reviewed	June 04, 1999

Site Information

Distance & Direction:	0.485 miles Northwest	Regional Board:	02
Name:	LINFORD AIR & REFRIGERATION		
Address:	2850 POPLAR ST	Case Number:	4048
City, State & Zip:	OAKLAND, CA 94608	County:	ALAMEDA
Lead Agency:	FEDERAL	Substance:	DIESEL
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
No Action Taken	No indication that action was taken

Noteable Dates

Event:	Date:
Leak was originally reported	July 28, 1992
Remedial action underway	January 23, 1998
Leak was last reviewed	May 18, 1999

LUST (continued)

Site Information

Distance & Direction:	0.494 miles Southwest	Regional Board:	02
Name:	NED CLYDE CONSTRUCTION		
Address:	2311 ADELINE ST	Case Number:	3806
City, State & Zip:	OAKLAND, CA 94607	County:	ALAMEDA
Lead Agency:	FEDERAL	Substance:	UNLEADED GASOLINE
Status:	* Not Reported *		
Case Type:	Other resources are affected		

Abatement Methods

Method:	Description:
Excavate and Dispose	Remove contaminated soil and dispose in approved site
Excavate and Treat	Remove contaminated soil and treat (including spreading or land farming)

Noteable Dates

Event:	Date:
Leak was originally reported	December 14, 1988
Preliminary site assessment plan was submitted	May 01, 1989
Preliminary site assessment began	May 12, 1989
Pollution characterization began	May 12, 1989
Remediation plan was submitted	April 01, 1991
Remedial action underway	May 01, 1989
Post remedial action monitoring began	April 01, 1991
Closure letter issued (site closed)	August 18, 1997
Leak was last reviewed	September 30, 1997

CORTESE

Name:
Hazardous Waste and Substances Sites List

Reporting Agency:
Department of Toxic Substances Control
http://www.dtsc.ca.gov/adcorlts.htm
(916) 445-6532

Information:
Database Last Updated: April 01, 1999
Database Last Checked: August 31, 1999

Radius Searched: 0.500 miles
Total Records Searched: 16379

Description:
This is a listing of potential and confirmed hazardous waste and substance sites throughout California.
The information in this list was consolidated within the State Office of Planning and Research.

Code Meanings:
CALSI: Department of Toxic Substances Control; Contaminated or potentially contaminated hazardous waste sites.
LTNKA: California State Water Resources Control Board; Leaking Underground Storage Tanks
WB-LF: California Integrated Waste Management Board;Sanitary Landfills which have evidence of groundwater contamination.

Distance & Direction:	0.213 miles Northwest		
Site Name:	LOOMIS ARMORED INC		
Address:	936 BROCKHURST	**Source:**	LTNKA
City, State & Zip:	OAKLAND, CA 94608	**Regional ID:**	01-0924
Distance & Direction:	0.221 miles Southeast		
Site Name:	FORMER CIVIC BANK OF COMM		
Address:	730 29TH	**Source:**	LTNKA
City, State & Zip:	OAKLAND, CA 94609	**Regional ID:**	01-2190
Distance & Direction:	0.305 miles Northeast		
Site Name:	TONG PROPERTY		
Address:	3133 MARTIN LUTHER KING	**Source:**	LTNKA
City, State & Zip:	OAKLAND, CA 94609	**Regional ID:**	01-2216
Distance & Direction:	0.312 miles Northwest		
Site Name:	CALIFORNIA ELECTRIC COMPA		
Address:	3015 ADELINE	**Source:**	LTNKA
City, State & Zip:	OAKLAND, CA 94608	**Regional ID:**	01-1761
Distance & Direction:	0.320 miles Southeast		
Site Name:	AUTO TECH WEST		
Address:	2703 MARTIN LUTHER KING	**Source:**	LTNKA
City, State & Zip:	OAKLAND, CA 94607	**Regional ID:**	47849

Distance & Direction:	0.455 miles Northwest		
Site Name:	CITY OF PARIS CLEANERS		
Address:	3516 ADELINE	Source:	LTNKA
City, State & Zip:	OAKLAND, CA 94608	Regional ID:	01-0415
Distance & Direction:	0.473 miles Southwest		
Site Name:	COLLINS PROPERTY		
Address:	2452 MAGNOLIA	Source:	LTNKA
City, State & Zip:	OAKLAND, CA 94607	Regional ID:	01-0440
Distance & Direction:	0.482 miles Southeast		
Site Name:	MEADERS DRY CLEANING		
Address:	800 GRAND	Source:	LTNKA
City, State & Zip:	OAKLAND, CA 94607	Regional ID:	01-0955
Distance & Direction:	0.494 miles Southwest		
Site Name:	NED CLYDE CONSTRUCTION		
Address:	2311 ADELINE	Source:	LTNKA
City, State & Zip:	OAKLAND, CA 94612	Regional ID:	01-1036
Distance & Direction:	0.497 miles Southeast		
Site Name:	FYNE BUILDING		
Address:	774 GRAND	Source:	LTNKA
City, State & Zip:	OAKLAND, CA 94612	Regional ID:	01-0674

CAL-SITES

Name:
California Cal-Sites Database

Reporting Agency:
California Environmental Protection Agency
http://www.calepa.ca.gov/
(916) 323-3400

Information:
Database Last Updated: May 01, 1999
Database Last Checked: June 08, 1999

Radius Searched: 0.500 miles
Total Records Searched: 4210

Description:
The California Cal-Sites are potentially contaminated hazardous waste sites. The database was created from the Annual Workplan (AWP), the Abandoned Sites Project Information System (ASPIS), and the Bond Expenditure Plan (BEP).

Site Information

Distance & Direction:	0.107 miles Northeast		
Name:	CAL TECH METALS		
Address:	841 EAST 31ST STREET	**ID Number:**	01-34-0118
City, State & Zip:	OAKLAND, CA 94607	**Status Date:**	August 27, 1997
Status:	Former Annual Workplan Site - Referred to RCRA		

Site Information

Distance & Direction:	0.221 miles Southeast		
Name:	OAKLAND LAUNDRY COMPANY		
Address:	730 29TH STREET	**ID Number:**	01-72-0100
City, State & Zip:	OAKLAND, CA 94609	**Status Date:**	November 05, 1980
Status:	No Further Action for DTSC		

Site Information

Distance & Direction:	0.489 miles Southwest		
Name:	LAHER SPRING AND ELECTRIC CAR		
Address:	2419 MAGNOLIA STREET	**ID Number:**	01-99-0016
City, State & Zip:	OAKLAND, CA 94607	**Status Date:**	September 01, 1983
Status:	Certified		

WDS

Name:
Waste Discharge System

Reporting Agency:
California State Water Resources Control Board
http://www.swrcb.ca.gov/
(916) 657-1395

Information:

Database Last Updated:	August 01, 1999	Radius Searched:	0.500 miles
Database Last Checked:	August 01, 1999	Total Records Searched:	6727

Description:
The California Waste Discharge System (WDS) contains information on which sites with waste discharge permits issued.

The database listing as of the above date shows no locations within a ½ mile radius of the subject property.

SARA

Name:
Sara Title III

Reporting Agency:
Environmental Protection Agency
http://www.epa.gov/

Information:

Database Last Updated: May 01, 1996	Radius Searched: 0.500 miles
Database Last Checked: July 22, 1999	Total Records Searched: 4019

Description:
Section 313 of the Emergency Planning and Community Right to Know Act, Title III of the Superfund Amendments and Re-authorization Act of 1986, requires certain facilities to file an annual toxic chemical release inventory form with the United States Environmental Protection Agency and the California Environmental Affairs Agency. Facilities are required to report releases to air, water, and land.

The database listing as of the above date shows no locations within a ½ mile radius of the subject property.

WMUDS

Name:
Waste Management Unit Database System

Reporting Agency:
California State Water Resources Control Board
http://www.swrcb.ca.gov/
(916) 657-1395

Information:

Database Last Updated:	April 01, 1998	Radius Searched:	0.500 miles
Database Last Checked:	April 01, 1998	Total Records Searched:	3682

Description:
WMUDS is intended as an enhancement to WDS (Waste Discharger System); it does not duplicate any information in WDS. In addition, WMUDS contains information regarding SWAT (Solid Waste Assessment Test program) and TPCA (Toxic Pits) programs.

The database listing as of the above date shows no locations within a ½ mile radius of the subject property.

UST

ound Storage Tanks

.ng Agency:
rnia State Water Resources Control Board
/www.swrcb.ca.gov/~cwphome/ust/usthmpg.htm
5) 657-4448

IAM F. DITZLER
55-2071

ormation:
Database Last Updated: August 01, 1994
Database Last Checked: July 02, 1999

Radius Searched: 0.500 miles
Total Records Searched: 63789

Description:
The State of California Water Resources Control Board (WRCB) provides a list of all permitted undergrour tanks containing hazardous substances. This database provides information on all registered undergrounc storage tanks.

TCCI, GEN'L MANA
28

E

Distance & Direction: 0.036 miles Northeast
Site Name: W.S.B. ELECTRIC
Address: 3032 MARKET ST
City, State & Zip: OAKLAND, CA 94608-4336
Site Description: ELECT.-ELECTRONICS
Care of: * Not Reported *
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: K.M. WILLIAMS
Contact Phone: (510) 653-5855

Distance & Direction: 0.126 miles Southwest
Site Name: SERVISCO, GOLDEN STATE LINEN
Address: 958 28TH ST
City, State & Zip: OAKLAND, CA 94608-4548
Site Description: UNIFORM RENTAL
Care of: * Not Reported *
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: JOHN C. LANE
Contact Phone: (415) 832-2711

Distance & Direction: 0.210 miles Southwest
Site Name: MCCLYMONDS HIGH SCHOOL [POOL
Address: 2607 MYRTLE ST
City, State & Zip: OAKLAND, CA 94607-3490
Site Description: SCHOOL
Care of: * Not Reported *
Number of Tanks: 1

Site Type: 9
Jurisdiction: 000
Manager: DR. BENO L. ENGLISH.
Contact Phone: (415) 893-6569

UST (continued)

Distance & Direction: 0.213 miles Northwest
Site Name: LOOMIS ARMORED CAR SERVICES
Address: 936 BROCKHURST ST
City, State & Zip: OAKLAND, CA 94608-4223
Site Description: ARMORED CAR SERVICE
Care of: * Not Reported *
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: WILLIAM F. DITZLER
Contact Phone: (415) 655-2071

Distance & Direction: 0.221 miles Southeast
Site Name: CALOU'S LINEN SERVICE
Address: 730 29TH ST
City, State & Zip: OAKLAND, CA 94609-3584
Site Description: LAUNDRY
Care of: * Not Reported *
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: R.C. SANUTCCI, GEN'L M
Contact Phone: (415) 444-0128

Distance & Direction: 0.312 miles Northwest
Site Name: CALIFORNIA ELECTRIC CO.
Address: 3015 ADELINE ST
City, State & Zip: OAKLAND, CA 94608-4434
Site Description: ELECTRO-MECH REP
Care of: * Not Reported *
Number of Tanks: 1

Site Type: 9
Jurisdiction: 000
Manager: JAMES D. VANCE
Contact Phone: (415) 655-6100

Distance & Direction: 0.316 miles Northwest
Site Name: FIRE HOUSE #5
Address: 934 34TH ST
City, State & Zip: OAKLAND, CA 94608-4212
Site Description: EMERGNCY RESPONSE
Care of: * Not Reported *
Number of Tanks: 1

Site Type: 9
Jurisdiction: 000
Manager: * Not Reported *
Contact Phone: (510) 444-3322

Distance & Direction: 0.320 miles Southeast
Site Name: AUTO TECH WEST
Address: 2703 MARTIN LUTHER KING JR WAY
City, State & Zip: OAKLAND, CA 94612-1117
Site Description: NOT GIVEN
Care of: * Not Reported *
Number of Tanks: 1

Site Type: 9
Jurisdiction: 000
Manager: * Not Reported *
Contact Phone: (415) 653-6622

Distance & Direction: 0.347 miles Northwest
Site Name: DOUGCO
Address: 1073 34TH ST
City, State & Zip: OAKLAND, CA 94608-4213
Site Description: FARM RANCH
Care of: * Not Reported *
Number of Tanks: 1

Site Type: 0
Jurisdiction: 000
Manager: PAUL A. DOUGLASS
Contact Phone: (415) 654-6256

UST (continued)

Distance & Direction: 0.361 miles Northwest
Site Name: THRIFTY OIL CO. #049
Address: 3400 SAN PABLO AVE
City, State & Zip: OAKLAND, CA 94608-4234
Site Description: GAS STATION-RETAIL
Care of: * Not Reported *
Number of Tanks: 4

Site Type: 0
Jurisdiction: 000
Manager: THRIFTY OIL COMPANY
Contact Phone: (510) 542-9114

Distance & Direction: 0.364 miles Southwest
Site Name: ELLIOTT AND ELLIOTT CO.
Address: 2336 MARKET ST
City, State & Zip: OAKLAND, CA 94607-3434
Site Description: ROOFING CONTRACTORS
Care of: * Not Reported *
Number of Tanks: 3

Site Type: 9
Jurisdiction: 000
Manager: LESLIE C. ELLIOTT
Contact Phone: (415) 444-7270

Distance & Direction: 0.375 miles Northwest
Site Name: SHELL SERVICE STATION
Address: 3420 SAN PABLO AVE
City, State & Zip: OAKLAND, CA 94608-4234
Site Description: GAS STATION
Care of: * Not Reported *
Number of Tanks: 4

Site Type: 0
Jurisdiction: 000
Manager: * Not Reported *
Contact Phone: (415) 653-5709

Distance & Direction: 0.386 miles Southeast
Site Name: AUTOMOBILE SERVICE CO
Address: 820 ISABELLA ST
City, State & Zip: OAKLAND, CA 94607-3430
Site Description: CSAA GARAGE
Care of: * Not Reported *
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: HENRY SUICO
Contact Phone: (510) 444-7131

Distance & Direction: 0.401 miles Southwest
Site Name: E-Z-EST PRODUCTS CO., INC.
Address: 2528 ADELINE ST
City, State & Zip: OAKLAND, CA 94607-2406
Site Description: MANUFACTURING
Care of: * Not Reported *
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: ROBERT W. VOGEL
Contact Phone: (415) 836-3980

Distance & Direction: 0.415 miles Southeast
Site Name: GIL LOPEZ
Address: 633 SYCAMORE ST
City, State & Zip: OAKLAND, CA 94612-1138
Site Description: OTHER TYPE SITE
Care of: * Not Reported *
Number of Tanks: 3

Site Type: 9
Jurisdiction: 000
Manager: GIL LOPEZ
Contact Phone: (510) 581-5666

UST (continued)

Distance & Direction: 0.430 miles Southwest
Site Name: SAFEWAY STORES, INC. ICE CRE
Address: 2240 FILBERT ST
City, State & Zip: OAKLAND, CA 94607-2915
Site Description: ICE CREAM MFG. PLANT
Care of: * Not Reported *
Number of Tanks: 1

Site Type: 9
Jurisdiction: 000
Manager: D. H. MCDANIEL
Contact Phone: (415) 891-3453

Distance & Direction: 0.435 miles Southwest
Site Name: ARCO FACILITY #02169
Address: 889 W GRAND AVE
City, State & Zip: OAKLAND, CA 94607-3453
Site Description: GAS STATION-RETAIL
Care of: * Not Reported *
Number of Tanks: 9

Site Type: 0
Jurisdiction: 000
Manager: RAMESH SOOD
Contact Phone: (510) 465-4450

Distance & Direction: 0.440 miles Southwest
Site Name: 91853
Address: 850 W GRAND AVE
City, State & Zip: OAKLAND, CA 94607-3448
Site Description: GAS STATION
Care of: * Not Reported *
Number of Tanks: 4

Site Type: 0
Jurisdiction: 000
Manager: CHAN, PETER T
Contact Phone: (415) 832-2698

Distance & Direction: 0.441 miles Northwest
Site Name: MODERN MAIL SERVICE, INC.
Address: 2836 UNION ST
City, State & Zip: OAKLAND, CA 94608-4426
Site Description: MESSENGER SVC.
Care of: * Not Reported *
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: LAWRENCE M. WADI
Contact Phone: (415) 444-6245

Distance & Direction: 0.449 miles Southwest
Site Name: REL'S FOODS INC.
Address: 975 W GRAND AVE
City, State & Zip: OAKLAND, CA 94607-3459
Site Description: FUEL FOR COMANT VEHI
Care of: * Not Reported *
Number of Tanks: 3

Site Type: 9
Jurisdiction: 000
Manager: REL'S FOODS
Contact Phone: (510) 652-2747

Distance & Direction: 0.452 miles Southwest
Site Name: GOOD STUFF FOOD CO
Address: 1000 W GRAND AVE
City, State & Zip: OAKLAND, CA 94607-2933
Site Description: DISTRIBUTION WAREHOU
Care of: * Not Reported *
Number of Tanks: 3

Site Type: 9
Jurisdiction: 000
Manager: BILL HENDRICKSOI
Contact Phone: (415) 465-3622

Distance & Direction: 0.455 miles Northwest
Site Name: CITY OF PARIS CLEANING AND D
Address: 3516 ADELINE ST
City, State & Zip: OAKLAND, CA 94608-4221
Site Description: DRY CLEANING
Care of: * Not Reported *
Number of Tanks: 5

Site Type: 9
Jurisdiction: 000
Manager: * Not Reported *
Contact Phone: (415) 655-5252

Distance & Direction: 0.457 miles Southwest
Site Name: BUS STORAGE YARD EASTSHORE
Address: 2400 ADELINE ST
City, State & Zip: OAKLAND, CA 94607-2444
Site Description: OTHER TYPE TANK
Care of: LINES
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: * Not Reported *
Contact Phone: (415) 763-1242

Distance & Direction: 0.473 miles Southwest
Site Name: BLOUNT INTERNATIONAL, LTD.
Address: 2452 MAGNOLIA ST
City, State & Zip: OAKLAND, CA 94607-2447
Site Description: EQUIPMENT STORAGE
Care of: * Not Reported *
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: * Not Reported
Contact Phone: (205) 244-400(

Distance & Direction: 0.481 miles Southwest
Site Name: STEVE TOOL
Address: 2340 ADELINE ST OAKLAND
City, State & Zip: OAKLAND, CA 94607
Site Description: MACHINE & JOBBING SH
Care of: * Not Reported *
Number of Tanks: 1

Site Type: 9
Jurisdiction: 000
Manager: RICK SANF(
Contact Phone: (415) 893-55

Distance & Direction: 0.481 miles Northwest
Site Name: EAST BAY SHEET METAL
Address: 2914 POPLAR ST
City, State & Zip: OAKLAND, CA 94608-4494
Site Description: OTHER TYPE TANK
Care of: * Not Reported *
Number of Tanks: 1

Site Type: 9
Jurisdiction: 000
Manager: * Not Repo
Contact Phone: (415) 444-

Distance & Direction: 0.485 miles Northwest
Site Name: LINFORD AIR & REFRIGERATION
Address: 2850 POPLAR ST
City, State & Zip: OAKLAND, CA 94608-4493
Site Description: CONSTRUCTION CONTRAC
Care of: * Not Reported *
Number of Tanks: 2

Site Type: 9
Jurisdiction: 000
Manager: BOB LIN
Contact Phone: (510) 834

ERNS

Name:
Emergency Response Notification System

Reporting Agency:
US Environmental Protection Agency
Office of Solid Waste and Emergency Response
http://www.epa.gov/ernsacct/pdf/index.html
(202) 260-4348

Information:
Database Last Updated: May 27, 1999
Database Last Checked: May 27, 1999

Radius Searched:
Total Records Searched:

Description:
ERNS is a national database which contains information on specific notification of relea
substances into the environment. The system stores data regarding the site of the spill,
and the medium into which it occured.

Site Information

Distance & Direction:	0.056 miles Southeast		
Name:	TUNE UP MASTERS		
Address:	2901 SAN PABLO AVENUE	**ID Number:**	1
City, State & Zip:	OAKLAND, CA 94608		

Discharger Information

Organization:	TUNE UP MASTERS		
Address:	2901 SAN PABLO AVENUE	**Organization Type**	Pri
City, State & Zip:	OAKLAND, CA 94604-		

Spill Information

Date Reported:	August 21, 1990		
Number of Deaths:	0	**Last Updated:**	Apr
Cause:	* Not Reported *	**Number of Injuries:**	0
Material Spilled:	WASTE OIL		
		Amount Spilled:	10.0

ERNS (continued)

Site Information

Distance & Direction:	0.107 miles Northeast	**ID Number:**	172573
Name:	UNKNOWN		
Address:	841 31ST ST.		
City, State & Zip:	OAKLAND, CA 94608		
		Organization Type	* Not Re

Discharger Information

Organization:	UNKNOWN		
Address:			
City, State & Zip:	* Not Reported *		
		Last Updated:	April 28

Spill Information

Date Reported:	July 05, 1990	**Number of Injuries:**	0
Number of Deaths:	0		
Cause:	* Not Reported *	**Amount Spilled:**	0.00/U
Material Spilled:	UNKNOWN LIQUID *		

Site Information

Distance & Direction:	0.221 miles Southeast	**ID Number:**	41597
Name:	SIGNS ALIVE		
Address:	730 29TH ST NO 106		
City, State & Zip:	OAKLAND, CA 94609		
		Organization Type	Publi

Discharger Information

Organization:	SIGNS ALIVE		
Address:	730 29TH ST NO 106		
City, State & Zip:	OAKLAND, CA 94609-		
		Last Updated:	Apr

Spill Information

Date Reported:	November 30, 1994	**Number of Injuries:**	0
Number of Deaths:	0		
Cause:	* Not Reported *	**Amount Spilled:**	0.0
Material Spilled:	PAINT THINNERS, SOLVENTS--FUME		

ERNS (continued)

Site Information

Distance & Direction:	0.325 miles Southeast		
Name:	UNKNOWN	**ID Number:**	338334
Address:	2500 SAN PABLO		
City, State & Zip:	OAKLAND, CA 94612		

Discharger Information

Organization:	UNKNOWN	**Organization Type**	Unknown
Address:			
City, State & Zip:	* Not Reported *		

Spill Information

Date Reported:	August 15, 1993	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	PAINT	**Amount Spilled:**	2.00/GAL

Site Information

Distance & Direction:	0.343 miles Southwest		
Name:	UNKNOWN	**ID Number:**	228898
Address:	850 ATHENS AVE.		
City, State & Zip:	OAKLAND, CA 94607		

Discharger Information

Organization:	UNKNOWN	**Organization Type**	* Not Reported *
Address:			
City, State & Zip:	* Not Reported *		

Spill Information

Date Reported:	August 07, 1991	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	SUSPECTED DRUG LAB	**Amount Spilled:**	0.00/UNK

ERNS (continued)

Site Information

Distance & Direction:	0.411 miles Northeast		
Name:	M&J TRANSMISSION	**ID Number:**	277139
Address:	845 36TH STREET		
City, State & Zip:	OAKLAND, CA 94608		

Discharger Information

Organization:	M&J TRANSMISSION	**Organization Type**	Public Enterprise
Address:	845 36TH STREET		
City, State & Zip:	OAKLAND, CA 94607-		

Spill Information

Date Reported:	July 20, 1992	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	WASTE OIL, FLUIDS	**Amount Spilled:**	0.00/UNK

Site Information

Distance & Direction:	0.430 miles Southwest		
Name:	SAFEWAY	**ID Number:**	327533
Address:	2240 FILVER ST.		
City, State & Zip:	OAKLAND, CA 94607		

Discharger Information

Organization:	SAFEWAY	**Organization Type**	Public Enterprise
Address:	201 4TH ST		
City, State & Zip:	OAKLAND, CA 94660		

Spill Information

Date Reported:	June 19, 1993	**Last Updated:**	* Not Reported *
Number of Deaths:	0	**Number of Injuries:**	1
Cause:	* Not Reported *		
Material Spilled:	AMMONIA, ANHYDROUS	**Amount Spilled:**	0.00/UNK

ERNS (continued)

Site Information

Distance & Direction:	0.430 miles Southwest		
Name:	SAFEWAY	**ID Number:**	468095
Address:	2240 FILBERT ST.		
City, State & Zip:	OAKLAND, CA 94607		

Discharger Information

Organization:	SAFEWAY	**Organization Type**	Public Enterprise
Address:	201 4TH ST		
City, State & Zip:	OAKLAND, CA 94660		

Spill Information

Date Reported:	June 19, 1993	**Last Updated:**	* Not Reported *
Number of Deaths:	0	**Number of Injuries:**	1
Cause:	* Not Reported *		
Material Spilled:	AMMONIA, ANHYDROUS	**Amount Spilled:**	0.00/UNK

Site Information

Distance & Direction:	0.430 miles Southwest		
Name:	SAFEWAY CORP	**ID Number:**	349254
Address:	2240 FILBERT ST		
City, State & Zip:	OAKLAND, CA 94607		

Discharger Information

Organization:	SAFEWAY CORP	**Organization Type**	Public Enterprise
Address:	2240 FILBERT ST		
City, State & Zip:	OAKLAND, CA 94607-		

Spill Information

Date Reported:	October 23, 1993	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	AMMONIA	**Amount Spilled:**	0.00/UNK

ERNS (continued)

Site Information

Distance & Direction:	0.435 miles Southwest		
Name:	ARCO	**ID Number:**	218707
Address:	889 W. GRAND AVENUE		
City, State & Zip:	OAKLAND, CA 94607		

Discharger Information

Organization:	ARCO	**Organization Type**	Private Citizen
Address:	P.O. BOX 5811		
City, State & Zip:	SAN MATEO, CA 94402-		

Spill Information

Date Reported:	May 09, 1991	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	GASOLINE	**Amount Spilled:**	0.00/UNK

Site Information

Distance & Direction:	0.446 miles Southwest		
Name:	UNKNOWN	**ID Number:**	525849
Address:	1221 26TH ST.		
City, State & Zip:	OAKLAND, CA 94607		

Discharger Information

Organization:	UNKNOWN	**Organization Type**	Unknown
Address:			
City, State & Zip:	* Not Reported *		

Spill Information

Date Reported:	, ,	**Last Updated:**	* Not Reported *
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	Unknown		
Material Spilled:	AIR CRAFT CARRIER PAINT	**Amount Spilled:**	15.00/GAL

ERNS (continued)

Site Information

Distance & Direction:	0.455 miles Northwest		
Name:	UNKNOWN	**ID Number:**	400823
Address:	3516 ADELINE ST		
City, State & Zip:	OAKLAND, CA 94608		

Discharger Information

Organization:	UNKNOWN	**Organization Type**	Unknown
Address:			
City, State & Zip:	* Not Reported *		

Spill Information

Date Reported:	August 19, 1994	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	OIL, WASTE/LUBRICANTS-POSSIBLE	**Amount Spilled:**	5.00/DRU

Site Information

Distance & Direction:	0.457 miles Southwest		
Name:	UNKNOWN	**ID Number:**	217797
Address:	2400 ADELINE ST.		
City, State & Zip:	OAKLAND, CA 94607		

Discharger Information

Organization:	UNKNOWN	**Organization Type**	* Not Reported *
Address:			
City, State & Zip:	* Not Reported *		

Spill Information

Date Reported:	May 06, 1991	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	UNK BROWN LIQUID W/ STRONG ODO	**Amount Spilled:**	20.00/GAL

ERNS (continued)

Site Information

Distance & Direction:	0.461 miles Northwest		
Name:	CHEMICAL FOR RESEARCH CO.	**ID Number:**	386841
Address:	1275 30TH ST		
City, State & Zip:	OAKLAND, CA 94608		

Discharger Information

Organization:	CHEMICAL FOR RESEARCH CO.	**Organization Type**	Public Enterprise
Address:	1275 30TH ST		
City, State & Zip:	OAKLAND, CA 94607-		

Spill Information

Date Reported:	June 23, 1994	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	PHOSPHORUS, RED	**Amount Spilled:**	0.00/UNK

Site Information

Distance & Direction:	0.481 miles Northwest		
Name:	UNKNOWN	**ID Number:**	202924
Address:	2928 POPLAR ST		
City, State & Zip:	OAKLAND, CA 94608		

Discharger Information

Organization:	UNKNOWN	**Organization Type**	* Not Reported *
Address:			
City, State & Zip:	* Not Reported *		

Spill Information

Date Reported:	January 29, 1991	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	HYDROGEN PEROXIDE	**Amount Spilled:**	0.00/OTH

ERNS (continued)

Site Information

Distance & Direction:	0.488 miles Northwest		
Name:	UNK [DUMPED]	**ID Number:**	72737
Address:	3001 PERALTA		
City, State & Zip:	OAKLAND, CA 94608		

Discharger Information

Organization:	UNK [DUMPED]	**Organization Type**	* Not Reported *
Address:			
City, State & Zip:	* Not Reported *		

Spill Information

Date Reported:	May 20, 1988	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	GASOLINE	**Amount Spilled:**	2.00/GAL

Site Information

Distance & Direction:	0.498 miles Southwest		
Name:	MR. LINN	**ID Number:**	351734
Address:	830 22ND ST		
City, State & Zip:	OAKLAND, CA 94607		

Discharger Information

Organization:	MR. LINN	**Organization Type**	Private Citizen
Address:	830 22ND ST		
City, State & Zip:	OAKLAND, CA 94579-		

Spill Information

Date Reported:	November 30, 1993	**Last Updated:**	April 28, 1995
Number of Deaths:	0	**Number of Injuries:**	0
Cause:	* Not Reported *		
Material Spilled:	WASTE OIL/ENGINE LUBRICANTS	**Amount Spilled:**	0.00/UNK