ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

December 19, 1997

STID # 756

Mr. Will Atchinson
249 Castle Crest,
Walnut Creek, CA 94595

Re: Case Closure, San Leandro Chrysler Plymouth, 232 East 14th Street, San Leandro, CA 94577

Dear Mr. Achinson:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

1) The monitoring wells should be destroyed immediately, with record of such closure of the wells documented and transmitted to this office.

2) Contamination of the groundwater exists with respect to the following: TPH-Gasoline 2 ppm (parts per million), BTEX residue is at 2.4, 2.5 6.0, 14. ppb (parts per billion) in the groundwater.

If you have any questions, please contact this office at (510) 567-6737.

Sincerely,

Brian P. Oliva

Brian P. Oliva, REHS, REA,
Hazardous Materials Specialist

enclosure: Case Closure Letter, Case Closure Summary

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December 19, 1997

STID #756

REMEDIAL ACTION COMPLETION CERTIFICATION

Will Atchinson
249 Castle Crest,
Walnut Creek, CA 94595

Subject: San Leandro Chrysler Plymouth, 232 East 14th Street, San Leandro, CA 94577 - two (2) 550 gallon gasoline, one (1) 280 gallon waste oil underground storage tanks (USTs)

Dear Mr. Achinson,

This letter confirms the completion of a site investigation and remedial action for the underground storage tank formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based upon the available information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact Brian P. Oliva, at (510) 567-6737 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director of Environmental Health Services

enclosure

c: Chief, Hazardous Materials Division - files
Brian P. Oliva, ACDEH
Kevin Graves, RWQCB
Lori Casias, SWRCB
Cheryl Gordon, State Cleanup Fund
Mike Bakaldin, San Leandro Fire Depatment

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date:** October 27, 1997

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Parkway Rm 250, Alameda CA 94502**

City/State/Zip: **Alameda** Phone: **(510) 567-6700**

Responsible staff person:Brian P. Oliva Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: San Leandro Chrysler Plymouth

Site facility address: 232 East 14th St., San Leandro, CA 94577

RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **756**

ULR filing date: 06/06/90 SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
1. William H. Atchinson	232 East 14th St.,	(510) 933-5922

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	550	gasoline	Removed	05-23-90
2	280	waste oil	Removed	05/23/90
3	550	gasoline	Removed	07/31/90

II RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **tank failure indicated following "Leak Locator" test. Results indicated failure of the 550 gallon gasoline tank (-0.3 gph).** It should be noted that the exact lacation(s) of th2e USTs on site is limited. The information submitted to this office indicates that all three tanks are located in the general area of the service bays and the storage area inside the building as indicated in Figure "4".

Site characterization complete? Yes

Leaking Underground Fuel Storage Program

Date approved by oversight agency: **undocumented**

Monitoring Wells installed? Yes Number: 3

Proper screened interval? Yes, approximately 20-35' or depth of well

Highest GW depth: **21.19'** Lowest depth: **29.22'**

Flow direction: generally west-southwesterly

Most sensitive current use: commercial/industrial, site is currently vacant

Are drinking water wells affected? No Aquifer name: NA

Is surface water affected? No Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): NA

Report(s) on file? **Yes** Where is report(s)? Alameda County
1131 Harbor Bay Parkway,
Room 250, Alameda CA 94502-6577

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment of Disposal w/destination)	Date
Tanks &	1-500 gallon	disposed by	5/23/90
Piping	1-280 gallon	Erickson, Richmond	" " "
	1-550 gallon	Unknown	7/31/90
Soil	115 cubic yards	Disposed to Redwood Landfill	5/90

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) (1*) Before	Soil (ppm) After (2*)		Water (ppb) Before	Water (ppb) After (3*)
TPH (gasoline)	1900	3100	--		2,000
Benzene	ND	38	--		2.4
Toluene	55	220			2.5
Ethylbenzene	ND	69			6.0
Xylenes	330	390			14.0
MTBE	ND				
ChloHC	ND				
TPH(g&d)	ND				
TOG	ND				

(1*) From sample T-1, taken beneath 550 gallon tank removed on 05/23/90 and the T-2 sample beneath waste oil UST

(2*) Soil sample S-5, taken after overexcavation @ a depth of 29 feet below ground surface (BGS) on 06/14/90

(3*) Monitoring well #3, monitoring well results

IV. **CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES

Site management requirements: Should any monitoring wells be unable to be located, deed notice should mention the relative location of the well and minimize groundwater infiltration to this area.

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommisioned: No

Number Decommisioned: 0 Number Retained: 3

List enforcement actions taken: None

List enforcement actions rescinded: N A

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Brian P. Oliva Title: Hazardous Materials Specialist

Signature: Brian P Oliva Date: 10/27/97

Reviewed by

Name: Tom Peacock Title: Manager

Signature: Tom Peacock Date: 10-31-97

Name: Barney Chan Title: Hazardous Materials Specialist

Signature: Barney Chan Date: 10/31/97

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response:

RWQCB Staff Name: K. Graves Title: AWRCE Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

This site was formerly used as a car sales and service facility. The tanks were scheduled to be "closed in place", as of September 22, 1989. However, following slant bore sampling underneath the gasoline underground storage tank (UST). and in light of the quantities of contamination detected through laboratory anaylsis, the two subject tanks were removed on May 23, 1990. During the removal operations, the consultant observed that the gasoline tank had a rupture, and that there had been spillage from leaks and overflows. The results of the waste oil tank removal were unremarkable.

In June of 1990, over-excavation of the site was undertaken by Tom Edwards and Associates. A total of 115 cubic yards of contaminated soil was excavated and removed from the site and transported to Redwood Landfill. The excavation was then backfilled with imported clean materials.

The soils report from the tank removal received by this office on June 6, 1990 indicated significant levels of contamination (see results for soil sample T-1). Based on these findings, a request for a "Preliminary Site Assessment" was sent to the Responsible Party. The site was placed in the Local Oversight Program on February 5, 1993. Overexcavation was undertaken at the site for removal of contaminated soil, however, hydrocarbon contamiation was detected, requiring further investigation. A report From Dames and Moore had previously indicated that the concentrations were 3100 parts per million (PPM) of Total Petroleum Hydrocarbons (TPH), BTEX @ 38, 220, 69, 390ppm respectively, in sample S-5. Based upon these observations, on April 5 and 6, 1994, three shallow groundwater monitoring wells were installed which indicated a general southwesterly groundwater flow. Initial reported concentrations of petroleum hydrocarbons are as follows:

	MW-1	MW-2	MW-3
TPH(gas)	18000(PPB)	12,000(PPB)	38,000(PPB)
BENZENE	23(PPB)	18(PPB)	110(PPB)
TOLUENE	27(PPB)	39(PPB)	160(PPB)
ETHYLBENZENE	51(PPB)	52(PPB)	130(PPB)
XYLENES	120(PPB)	220(PPB)	370(PPB)

It should be noted that MTBE was "Non-Detect in all wells in it's earlist samplings (10/10/96 and 4/15/97).

In order to obtain the horizontal extent of the contamination, a workplan was requested by this office. On November 16, 1995, a workplan was submitted calling for up to five geoprobe borings to be advanced to obtain soil and water grab samples of ground water in the area adjacent to the former USTs. See figure "5" for a map of the location of these borings.

The groundwater grab samples were obtained on January 18, 1996, with the results being submitted in January 30, 1996. The depths of the borings were from 10 to 25 feet with samples collected and analyzed every five (5) feet. It should be noted that soil sampling results were "non detect" for TPHg and BTEX. However concentrations of petroleum hydrocarbons were encountered in the groundwater. Table "4" indicates the highest concentrations (in PPB) encountered in all the grab groundwater samples was detected in GP-1:

TPH.....14
BENZENE.....12
TOLUENE.....21
ETHYLBENZENE.....26
XYLENES.....39

GP-1, southwest of the excavation was "Non Detect" for petroleum hydrocarbons.

CONCLUSIONS:

In summary, case closure is recommended because:

* The leak and ongoing sources have been removed;
* the site has been adequately characterized;
* the dissolved plume is not migrating;
* no water wells, surface water, or sensitive receptors are likely to be impacted: and,
* the site presents no significant risk to human health or the environment.

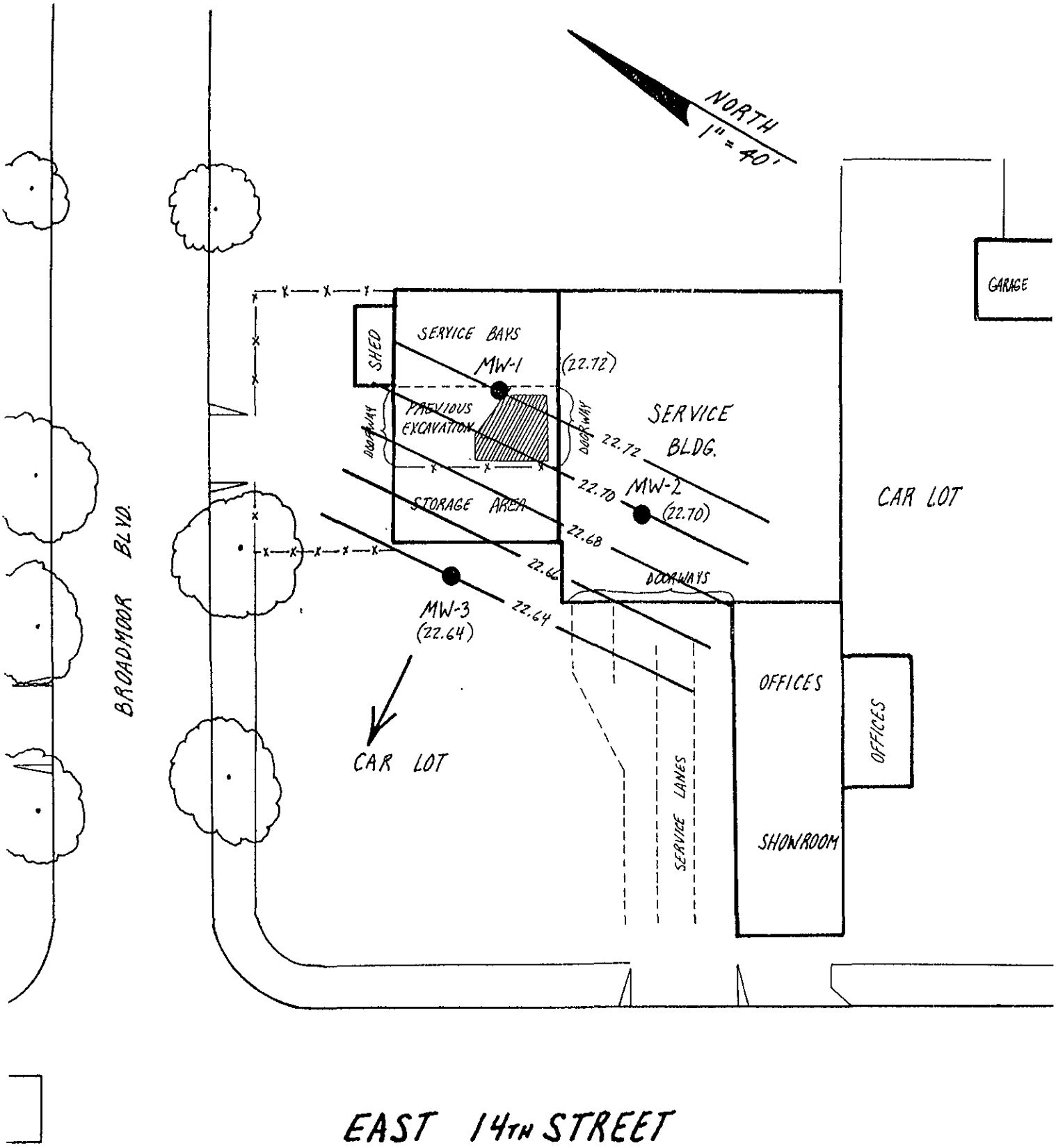


FIGURE 4. Shallow Groundwater Table Contour Map, measured on November 30, 1995.

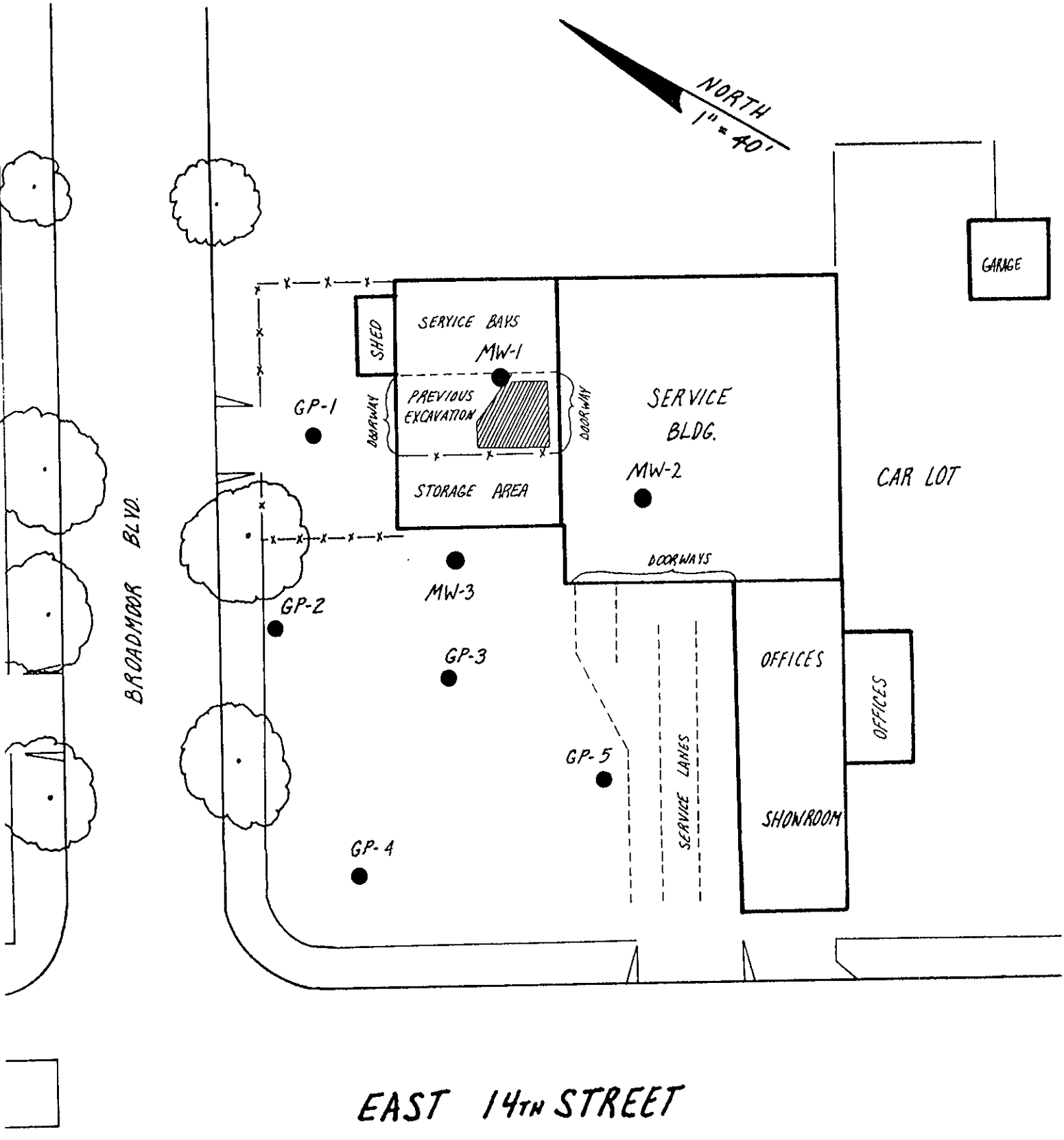

NORTH
1" = 40'
GARAGE
SERVICE BAYS
SHED
MW-1
PREVIOUS EXCAVATION
DOORWAY
DOORWAY
SERVICE BLDG.
GP-1
MW-2
CAR LOT
STORAGE AREA
DOORWAYS
BROADMOOR BLVD.
MW-3
GP-2
GP-3
OFFICES
OFFICES
GP-5
SERVICE LANES
SHOWROOM
GP-4
EAST 14TH STREET

FIGURE 5.

TABLE 2.
Historical Water Table Elevations
(feet)

Well	Date of Measurement								
	4-11-94	7-12-94	10-11-94	1-10-95	4-26-95	8-3-95	11-30-95		
MW-1	23.57	22.63	21.28	25.81	29.22	25.73	22.72		
MW-2	23.53	22.59	21.23	25.70	29.20	25.70	22.70		
MW-3	23.49	22.55	21.19	25.72	29.12	25.64	22.64		
Flow Direction	W	SW	SW	SW	W	W	W		
Hydraulic Gradient	0.0015	0.0015	0.0016	0.0020	0.0018	0.0016	0.00145		

TABLE 1.

Shallow Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-1	04-11-94	18,000	23	27	51	120	---
	07-12-94	7,000	7.0	4.5	5.2	15	---
	10-11-94	660	1.9	1.0	2.0	3.2	---
	01-19-95	9,000	19	13	27	66	---
	04-26-95	7,500	29	9.2	34	60	---
	08-03-95	1,600	0.7	0.7	15	19	---
	11-30-95	1,100	2.8	2.4	9.2	17	---
	04-16-96	11,000	7.1	2.0	25	38	---
	07-12-96	6,200	10	13	12	32	---
	10-10-96	2,300	1.6	2.3	6.6	18	ND
	04-15-97	1,400	2.2	1.7	2.3	6.1	ND
MW-2	04-11-94	12,000	18	39	52	220	---
	07-12-94	8,900	2.9	3.7	5.6	11	---
	10-11-94	1,900	5.3	2.9	5.6	9.2	---
	01-19-95	810	1.8	1.2	3.8	17	---
	04-26-95	320	0.6	0.7	3.9	14	---
	08-03-95	ND	ND	ND	ND	ND	---
	11-30-95	850	2.9	3.0	4.0	8.9	---
	04-16-96	760	0.5	0.6	3.0	7.2	---
	07-12-96	570	1.3	1.5	1.9	6.7	---
	10-10-96	ND	ND	ND	ND	ND	ND
	04-15-97	240	1.0	0.5	0.8	2.7	ND
Detection Limit		50	0.5	0.5	0.5	0.5	0.5

ND = not detected

TABLE 1. (continued)

Shallow Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-3	04-11-94	38,000	110	160	130	370	---
	07-12-94	23,000	37	31	19	51	---
	10-11-94	6,400	18	9.8	19	31	---
	01-19-95	2,500	6.1	14	11	29	---
	04-26-95	2,700	19	19	26	44	---
	08-03-95	6,600	10	12	26	42	---
	11-30-95	5,900	12	7.2	13	30	---
	04-16-96	6,200	6.9	7.9	14	26	---
	07-12-96	2,500	3.5	3.7	7.7	19	---
	10-10-96	3,300	3.4	3.8	17	29	ND
	04-15-97	2,000	2.4	2.5	6.0	14	ND
Detection Limit		50	0.5	0.5	0.5	0.5	0.5

ND = not detected

Soil Sampling Results

Boring	Depth (feet)	TPH as Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl-benzene (ug/Kg)	Total Xylenes (ug/Kg)
GP-1	10	ND	ND	ND	ND	ND
	15	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND
	25	ND	ND	ND	ND	ND
GP-2	10	ND	ND	ND	ND	ND
	15	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND
	25	ND	ND	ND	ND	ND
GP-3	10	ND	ND	ND	ND	ND
	15	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND
	25	ND	ND	ND	ND	ND
GP-4	10	ND	ND	ND	ND	ND
	15	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND
	25	ND	ND	ND	ND	ND
GP-5	10	ND	ND	ND	ND	ND
	15	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND
	25	ND	ND	ND	ND	ND
Detection Limit		1	5	5	5	5

ND = Not Detected

Samples Collected On January 18, 1996

TABLE 4.
Shallow Groundwater Sampling Results

Boring	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
GP-1	01-18-96	**14,000**	**12**	**21**	**26**	**39**
GP-2	01-18-96	**11,000**	**11**	**5.5**	**59**	**78**
GP-3	01-18-96	**2,100**	**8.1**	**3.3**	**6.8**	**18**
GP-4	01-18-96	**260**	**1.5**	**1.4**	**5.1**	**17**
GP-5	01-18-96	ND	ND	ND	ND	ND
Detection Limit		50	0.5	0.5	0.5	0.5

ND = Not Detected

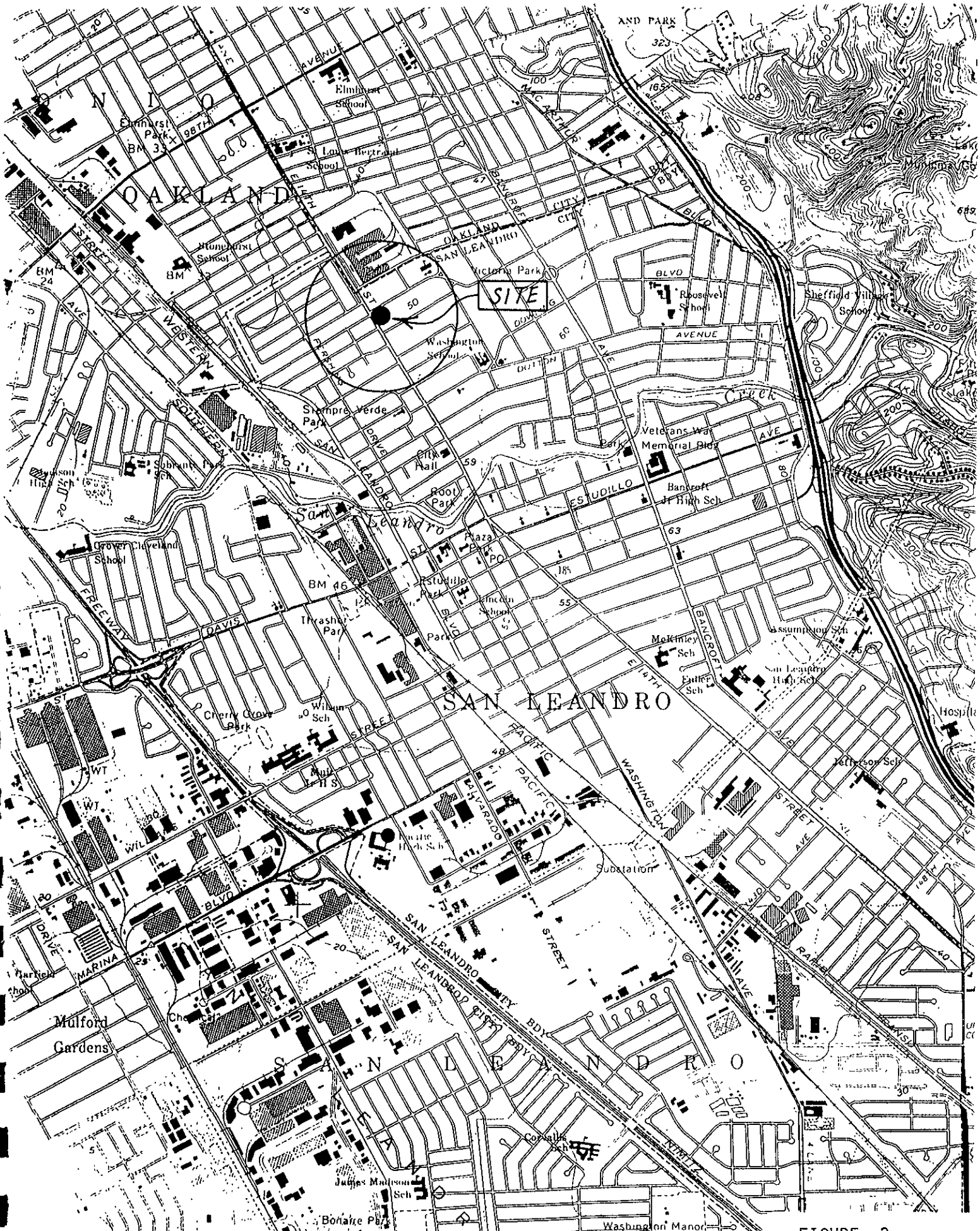
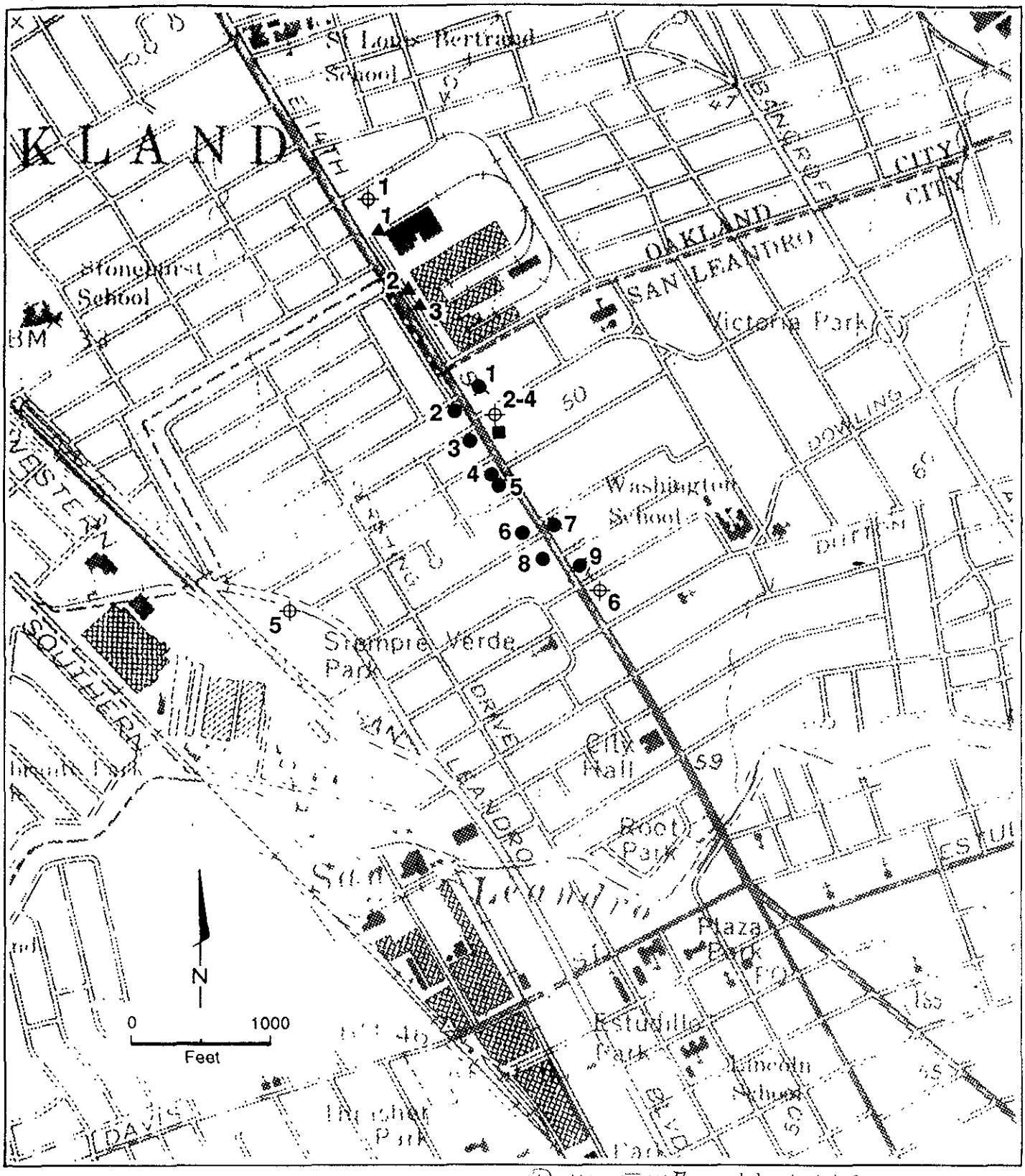


FIGURE 3.

Topographic Map.



① 110 E 14th – Lloyd Wise
② 111 " " – Hans European
③ 129 " " – Beacon

KEY

- ■ Site: 232 E. 14th, San Leandro
- ▲ Regular generator of hazardous waste
- ● Present or former underground tank locations
- ⊕ Wells

*For explanation, see Tables 2 and 3

SITE MAP

San Leandro Chrysler-Plymouth
March 1991 — Evaluation of Potential Contamination
21840-001-043 — San Leandro, California

DAMES & MOORE — PLATE 2

TABLE 1
SUMMARY OF AGENCIES AND LISTS REVIEWED

LIST NAME	LEAD AGENCY	PURPOSE OF LIST
Comprehensive Environmental Response, Compensation, and Liability Index System (CERCLIS)	U.S. EPA	Computerized EPA database of suspected hazardous waste sites listed through self-notifications, complaints, or state referrals.
Hazardous Waste Substances Site List Assembly Bill 3750 (Cortese)	OPR	Data compiled from RWQCB, WMB, and DHS
Abandoned Site Program Information System List (ASPIS)	DHS	DHS's Site Mitigation Unit tracking of potentially contaminated sites.
Fuel Leak List	RWQCB	Lists leaking underground storage tank with RWQCB jurisdiction.
Toxic List	RWQCB	Lists toxic cases with impact to groundwater and under RWQCB jurisdiction.
Files	SLFD	List underground storage tanks in the city of San Leandro.
Files	ACHCSA	List potentially contaminated sites in Alameda County.

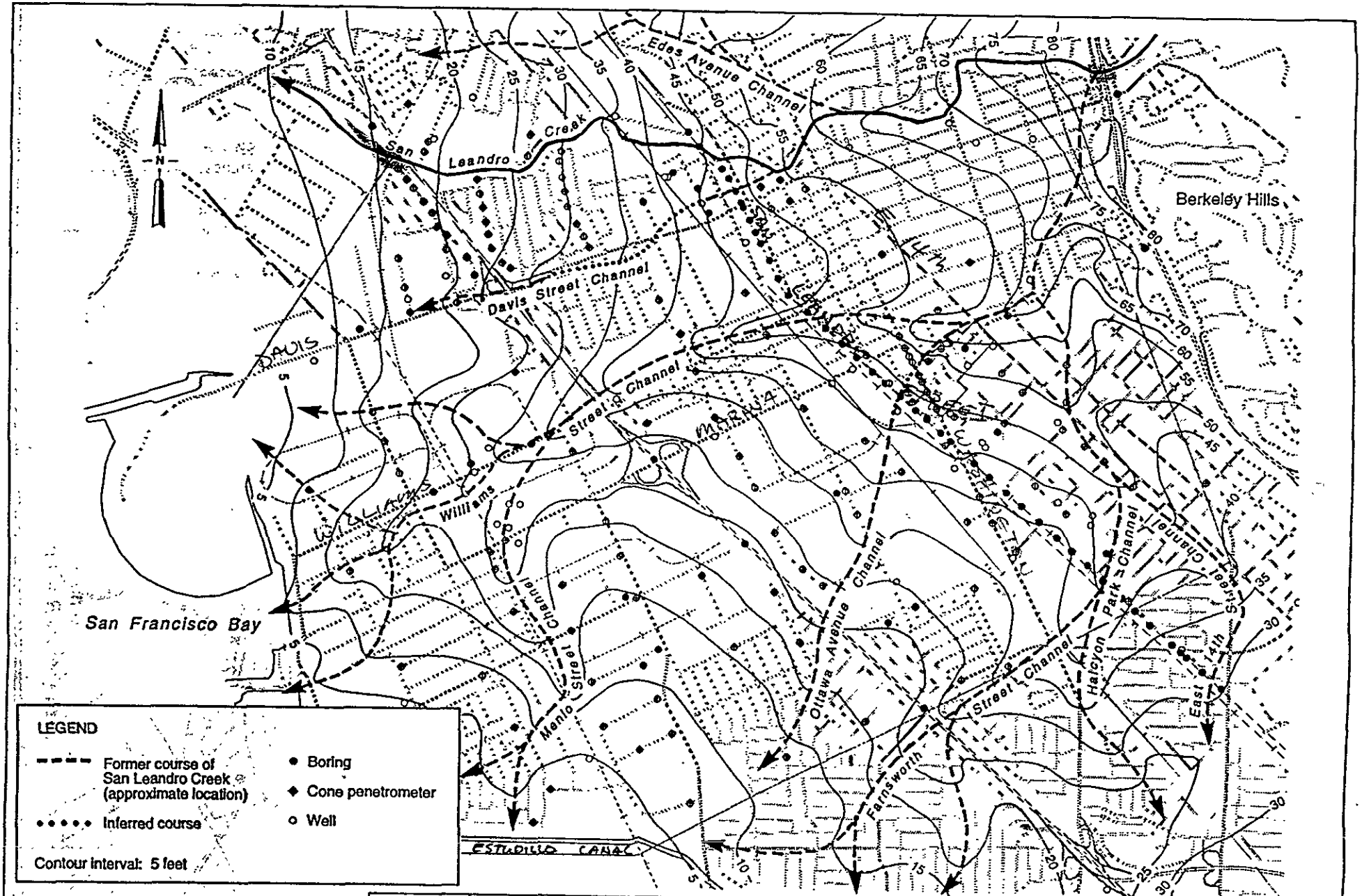
TABLE 2 SUMMARY OF POTENTIAL OFF-SITE SOURCES OF CONTAMINATION		
MAP NUMBER[1]	FACILITY NAME	ADDRESS
REGULAR GENERATORS OF HAZARDOUS WASTE		
1	Lloyd Wise, Inc.	10500 E. 14th St., Oakland
2	Crescent Wharf and Warehouse	10626 E. 14th St., Oakland
3	Crescent Wharf and Warehouse	10800 E. 14th St., Oakland
PRESENT OR FORMER UNDERGROUND TANK LOCATIONS		
1	Lloyd Wise, Inc.	110 E. 14th St., San Leandro
2	Hans European, Inc.	111 E. 14th St., San Leandro
3	Beacon	139 E. 14th St., San Leandro
4	German Autocraft	301 E. 14th St., San Leandro
5	World Imported Car Services	355 E. 14th St., San Leandro
6	Pao's Used Car Lot	401 E. 14th St., San Leandro
7	Fegard Motors	390 E. 14th St., San Leandro
8	Minit Auto Care	497 E. 14th St., San Leandro
9	Pacific Bell	530 E. 14th St., San Leandro

[1]Refers to numbers presented on Plate 2.

TABLE 3
SUMMARY OF GROUNDWATER WELLS

MAP NUMBER[1]	LOCATION	DATE	WELL USE	TOTAL DEPTH (ft.)	DEPTH TO GROUNDWATER (ft.)
1	1500 15th Ave., Oakland	6/77	Industrial	74	20
2	-	-	Industrial	99	-
3	91 Broadmoor Blvd., San Leandro	5/77	Irrigation	32	31
4	93 Broadmoor Blvd, San Leandro	8/82	Irrigation	100	25
5	299 Park St., San Leandro	7/86	Test	30	17
6	74 Euclid Ave., San Leandro	8/77	Irrigation	45	-

[1] Refers to numbers presented on Plate 2.



Project No. 92C0805F	San Leandro Plume	GENERALIZED TOPOGRAPHIC MAP OF THE SAN LEANDRO ALLUVIAL CONE SHOWING FORMER CHANNELS OF SAN LEANDRO CREEK
Woodward-Clyde Consultants		Figure 11 (4.3-10)

ALAMEDA COUNTY HEALTH CARE SERVICES - ENVIRONMENTAL PROTECTION

MEMORANDUM

DATE: April 9, 1996

TO: Mike Bakaldin, San Leandro Hazardous Materials Program

FROM: Scott Seery, CHMM SS

SUBJ: German Autocraft investigation, 301 E. 14th Street

This memo is intended to bring you up-to-date with the ongoing investigation associated with the release initially identified at the subject site during the September 1990 removal of five (5) fuel and one (1) waste oil underground storage tanks (UST).

ACDEH took over site investigation responsibility from the City in November 1993. First, the use and ownership history of the site was researched, leading to the identification of two other potentially responsible parties, in addition to the current property owner, Mr. Lee. As a consequence, these additional parties were also named as *responsible parties* (RP) in conformance with Article 11, 23CCR criteria. We negotiated with all RPs to encourage their participation with Mr. Lee for both direct costs associated with further site investigation, and his application for project funding through the SWRCB SB2004 UST fund program. We were also in frequent contact with SWRCB staff reviewing Mr. Lee's case for eligibility. As a result, the SWRCB issued a letter of commitment (LOC) to Mr. Lee in June 1994.

Between July 1994 and November 1994, the scope of the (then) pending soil and water investigation (SWI) was negotiated with Mr. Lee's consultant. The initial phase included the installation of two wells (to supplement the single well installed during December 1990) and two soil borings within the boundaries of the site.

The results of this initial phase, conducted during December 1994 and presented in the Chemist Enterprises (CE) report dated April 12, 1995, revealed a *severe* impact to both underlying soil and ground water (GW). Up to 260,000 ug/l benzene and 15,000,000 ug/l TPH-G were identified in sampled water collected from boring CE-1, advanced just outside and northwest of the former UST excavation. GW was first encountered in a poorly-graded SAND unit at an approximate depth of between 23 and 28' below grade (BG) in each boring. Water stabilized at approximately 20' BG. Product "sheen" and measurable (¼") free phase product were identified in wells MW-2 and -3, respectively. Initial GW flow was calculated towards the northwest with a "flat" gradient.

These lithologic and hydrologic data appear consistent with the presence of a spur of a mapped former channel of San Leandro Creek (Edes Avenue channel) which we believe passes very proximal to the site. Our concern at the time was that this channel (and the coarser-grained sediments which likely comprise it) may prove an efficient conduit for the transmission of both GW and contaminants from the site. We concluded the prudent step at

this point was to accelerate the rate of the subsequent phases of the SWI. As a result, we requested in our April 18, 1995 correspondence the use of so called "rapid site assessment" tools (e.g., "hydropunch," Geoprobe®, CPT, etc.) as both a dynamic and cost-effective way to generate good data quickly.

After negotiation with CE over the scope of the next phase of the SWI, a final plan was submitted and approved in June 1995. This plan called for the advancement of approximately 24 "hydropunch" (HP) points within a 150' radius and 360° arc of the German Autocraft site. The overall theme of this phase was to only "step-out" to more distant HP point locations should those closer in show either subjective evidence of contamination (e.g., odors, product, etc.) or laboratory results indicating impact. Because the bulk of this intrusive work was to occur off-site, property access agreements were acquired from both the City and adjoining private property owners in preparation to perform the work.

Contemporaneous with site access negotiations, site wells were monitored between July and September, and sampled during July 1995. GW flow was calculated towards the southwest during the three events, at a gradient of ~ 0.002 $ftft^{-1}$. Up to 8,000 ug/l benzene and 86,000 ug/l TPH-G were detected in wells MW-1 and -3, respectively. In light of the new GW flow calculations, several additional potential HP points were added to the scope for the (then) pending phase of the SWI, requiring additional property access.

Site wells were again sampled/monitored between October and December 1995. GW flow was calculated towards the southwest, with a gradient of ~ 0.002 $ftft^{-1}$. Up to 20,000 ug/l benzene and 160,00 ug/l TPH-G were identified in samples collected from well MW-1.

The initial HP phase of the SWI was performed between November 28 and December 1, 1995. This work revealed that the plume had migrated off-site most substantially towards the northwest. Up to 12,000 ug/l benzene and 1,200,000 ug/l TPH-G were detected in water sampled from HP point ETM-4 located across Garcia Avenue from the subject site. HP point ETM-14, emplaced in the backyard of a Garcia Avenue residence, approximately 150' northwest of the subject site, revealed the presence 930 ug/l benzene and 120,000 TPH-G in sampled GW.

Since completion of the initial HP phase of the SWI, additional potential HP point sites were located, property access acquired, and sampling completed. The first subsequent phase included the advancement of HP points on properties, both public and private, along the south side of West Broadmoor. Subjective evidence indicated gasoline compounds were still being encountered on the south side of W. Broadmoor, and apparent product emulsion ("froth") was observed on at least one HP probe upon removal from the formation. Consequently, work proceeded to properties on the north side of W. Broadmoor. It was during this subsequent phase that 6" of free-phase product was encountered on Friday, March 29, in a single HP sample point emplaced through the driveway of an apartment building.

Because the consultant (formerly known as Chemist Enterprises, now renamed Environmental Testing and Management [ETM]) had already anticipated the need to expand the investigation to Farrelly Drive, that neighborhood was reportedly canvassed the previous evening, Thursday, March 28. I understand that the presence of an irrigation well was identified in the backyard of a residence along the south side of Farrelly Drive. When free-phase product was discovered in the HP point approximately 100' feet from this irrigation well the following evening, this office was contacted by ETM out of concern that gasoline may be, or already had been, drawn towards this well. Juliet Shin of this office responded to this request (as I was already in southern California to attend the SWRCB UST conference) at 5:30 PM, meeting the ETM project manager, Tom Price, and a consulting hydrogeologist, Paul King, at the project site. I understand that the owner of the noted home and subject well, Mr. Mitch Ramirez, allowed the assembled group to observe and gauge his well.

GW appeared to be stabilized at a depth of approximately 20.5' BG, consistent with GW encountered during the course of the SWI. Total well depth was reported to be approximately 60' BG. No gasoline odors were reportedly emanating from the well. ETM arranged to sample the irrigation well on April 6, 1996, which I understand occurred. ETM has also arranged to videocam this well on Saturday, April 13, to determine where the well's screen interval is located. Mr. Ramirez was asked to avoid his use of this well until the extent of the plume, free product, well construction, and contaminant source has been more fully evaluated.

Currently, only subjective evidence is available from the subsequent phases of the HP SWI. Laboratory data are expected at the end of this week. I additionally understand that a sample of the product recovered from the cited HP point has also been submitted for analysis to determine whether it contains either MTBE or alcohols. This information may prove useful in determining whether the nearby (former) Beacon station, located at Farrelly Drive and E. 14th Street, may be the source of the noted product, or contributor to the plume as currently mapped.

Attached are several maps showing German Autocraft well locations, GW flow directions, and HP points with subjective plume outlines. Also attached are the laboratory datasets representing the initial HP phase of the SWI and overall well sampling.

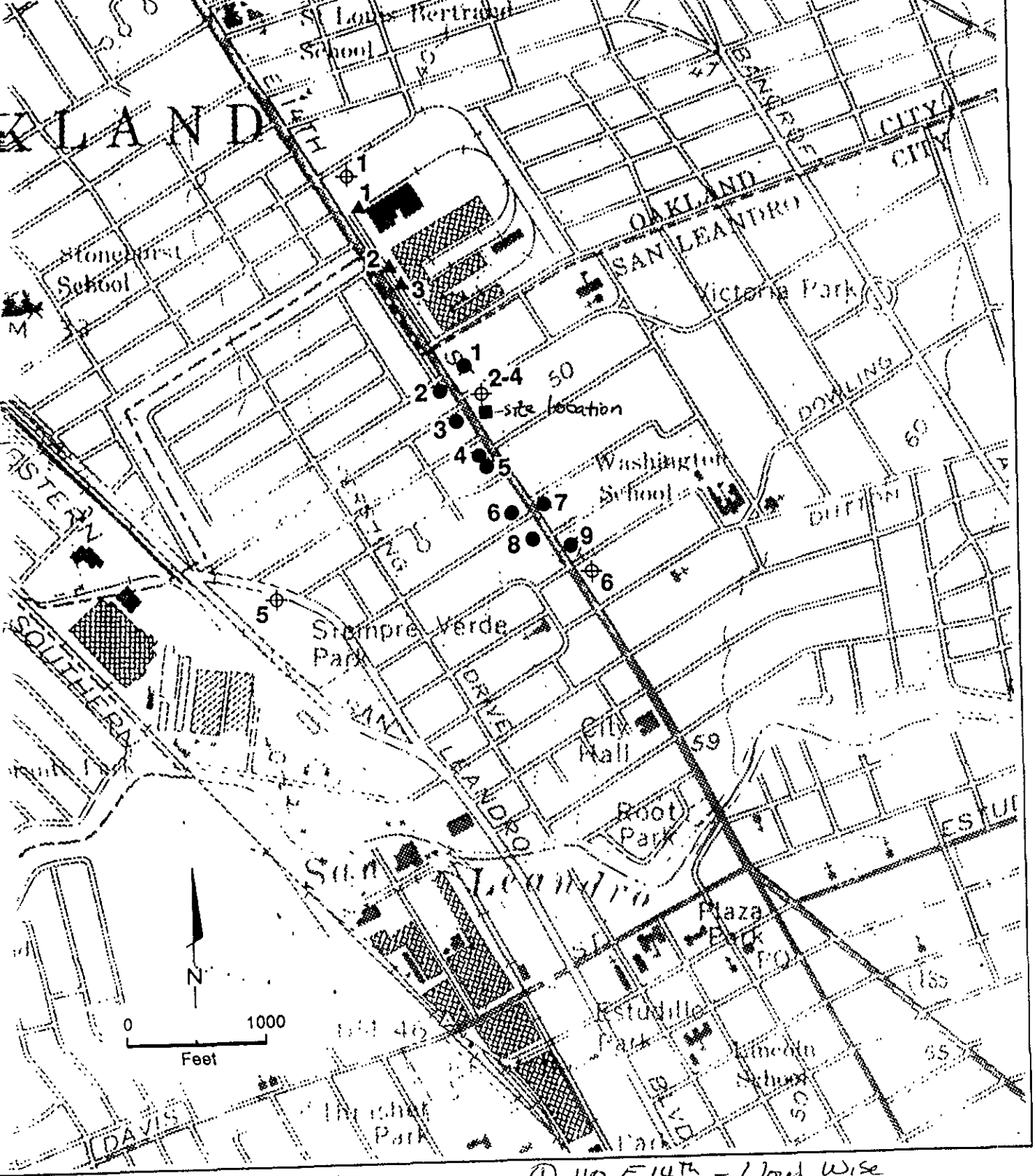
enclosures

c: JM
GC
TP

TABLE 3
SUMMARY OF GROUNDWATER WELLS

MAP NUMBER[1]	LOCATION	DATE	WELL USE	TOTAL DEPTH (ft.)	DEPTH TO GROUNDWATER (ft.)
1	1500 15th Ave., Oakland	6/77	Industrial	74	20
2	-	-	Industrial	99	-
3	91 Broadmoor Blvd., San Leandro	5/77	Irrigation	32	31
4	93 Broadmoor Blvd, San Leandro	8/82	Irrigation	100	25
5	299 Park St., San Leandro	7/86	Test	30	17
6	74 Euclid Ave., San Leandro	8/77	Irrigation	45	-

[1] Refers to numbers presented on Plate 2.



① 110 E. 14th – Lloyd Wise
② 111 " " – Hans European
③ 139 " " – Beacon

KEY

- ■ Site: 232 E. 14th, San Leandro
- ▲ Regular generator of hazardous waste
- ● Present or former underground tank locations
- ⊕ Wells

*For explanation, see Tables 2 and 3

SITE MAP

San Leandro Chrysler-Plymouth
Evaluation of Potential Contamination
San Leandro, California

March 1991
21840-001-043

DAMES & MOORE

PLATE 2