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

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

January 31, 1997
StID # 3407

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. William Taylor
A & B Auto Co.
8717 G St.
Oakland CA 94621

Re: Former A & B Auto Company, 8451 San Leandro, Oakland 94621

Dear Mr. Taylor:

This letter confirms the completion of site investigation and remedial action for the three underground fuel tanks; 1-5,000 gallon gasoline and two 7,500 diesel 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 tanks is greatly appreciated.

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

This notice is issued pursuant to the regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations.

Please contact Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

c: B. Chan, Hazardous Materials Division-files
Kevin Graves, RWQCB
L. Casias, SWRCB (with attachment)

RACC8451

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: October 31, 1996

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Barney Chan** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **A & B Auto Co**
Site facility address: **8451 San Leandro St, Oakland 94621**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3407**
URF filing date: **9/12/91** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Mr. William Taylor A & B Auto Co.	8451 San Leandro Street Oakland, CA 94621	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	5,000	Gasoline	Removed	7/31/91
2	7,500	Diesel	Removed	7/31/91
3	7,500	Diesel	Removed	7/31/91

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **9/25/96**
Monitoring Wells installed? **Yes** Number: **3**
Proper screened interval? **Yes, 15' to 25' bgs**
Highest GW depth below ground surface: **5.67'** Lowest depth: **9.68'**
Flow direction: **Unknown, wells not installed in similar geologic formation. Regional groundwater flows to west/southwest.**
Most sensitive current use: **Commercial**
Are drinking water wells affected? **No** Aquifer name: **Unknown**
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) filed? **Alameda County**
1131 Harbor Bay Pkwy
Alameda, CA 94502

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	3 USTs	H & H, in San Francisco	7/31/91
Piping			
Rinsate	2,700 gallons	H & H, in San Francisco	7/31/91
Soil	380 cy	Treated and reused at nearby site at 8717 G Street, also owned by William Taylor 7/22/92	

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before[1]	After	Before[2]	After[3]
TPH (Gas)	10	10	22,000	ND
TPH (Diesel)	8.6	8.6	35,000	ND
Benzene	0.83	0.83	860	ND
Toluene	0.026	0.026	ND	ND
Ethylbenzene	0.40	0.40	8,300	ND
Xylenes	0.093	0.093	1,700	ND
Other				

NOTE:
1 soil sample from tank excavation at time of UST removal at ~14' to 15' bgs
2 grab groundwater sample collected from pit at time of UST removal
3 from onsite groundwater monitoring wells (MW-1 through MW-3)

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **Undetermined**
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **Undetermined**
Does corrective action protect public health for current land use? **YES**
Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **None, pending site closure**
Number Decommissioned: **0** Number Retained: **3**
List enforcement actions taken: **None**
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: [signature] Date: 10/31/96

Reviewed by

Name: **Barney Chan** Title: **Haz Mat Specialist**

Signature: Barney Chan Date: 10/3/96

Name: **Thomas Peacock** Title: **Supervisor**

Signature: [signature] Date: 10-28-96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 11/1/96 RB Response: Approved

RWQCB Staff Name: **Kevin Graves** Title: **AWRCE**

Signature: [signature] Date: 11/14/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site operated an auto towing/dismantling & reconstruction yard. When three USTs (1-5K gallon gasoline, 2-7,500 gallon diesel tanks) were removed on 7/31/91 soil samples (sample #2 through #6) collected from the sidewalls at 14' to 15' bgs did not contain remarkable levels of petroleum hydrocarbons. However, a grab groundwater sample (sample #1) exhibited elevated levels of TPHg, TPHd, and benzene. (See Figs 1 and 2, Tables 1 and 2).

Approximately 380 cy of stockpiled soil, which contained elevated levels of petroleum hydrocarbons, were bio-treated by applying a cultured-compost misted with water and a biodegradable surfactant. When hydrocarbons were reduced to acceptable levels, and with the approval of this agency and the RWQCB, the soil was re-used at an adjacent site (former Owens-Brockway facility at 8717 G Street, in Oakland) as fill material for a sunken concrete bunker.

In October 1992 a limited environmental investigation was conducted to determine if groundwater contamination was entering the site from an offsite source and to determine the depth and inferred direction of subsurface aquifer(s). Six soil borings (B-1 through B-6) were advanced and grab groundwater samples collected. (See Fig 3). Laboratory analytical results did not indicate the groundwater was impacted with petroleum hydrocarbons from any offsite and upgradient sources. Boring B2

and B6 identified medium gravels with sand at 13' to 19.5' bgs, suggesting an old streambed may have flowed northwest across the site. (See Boring Logs)

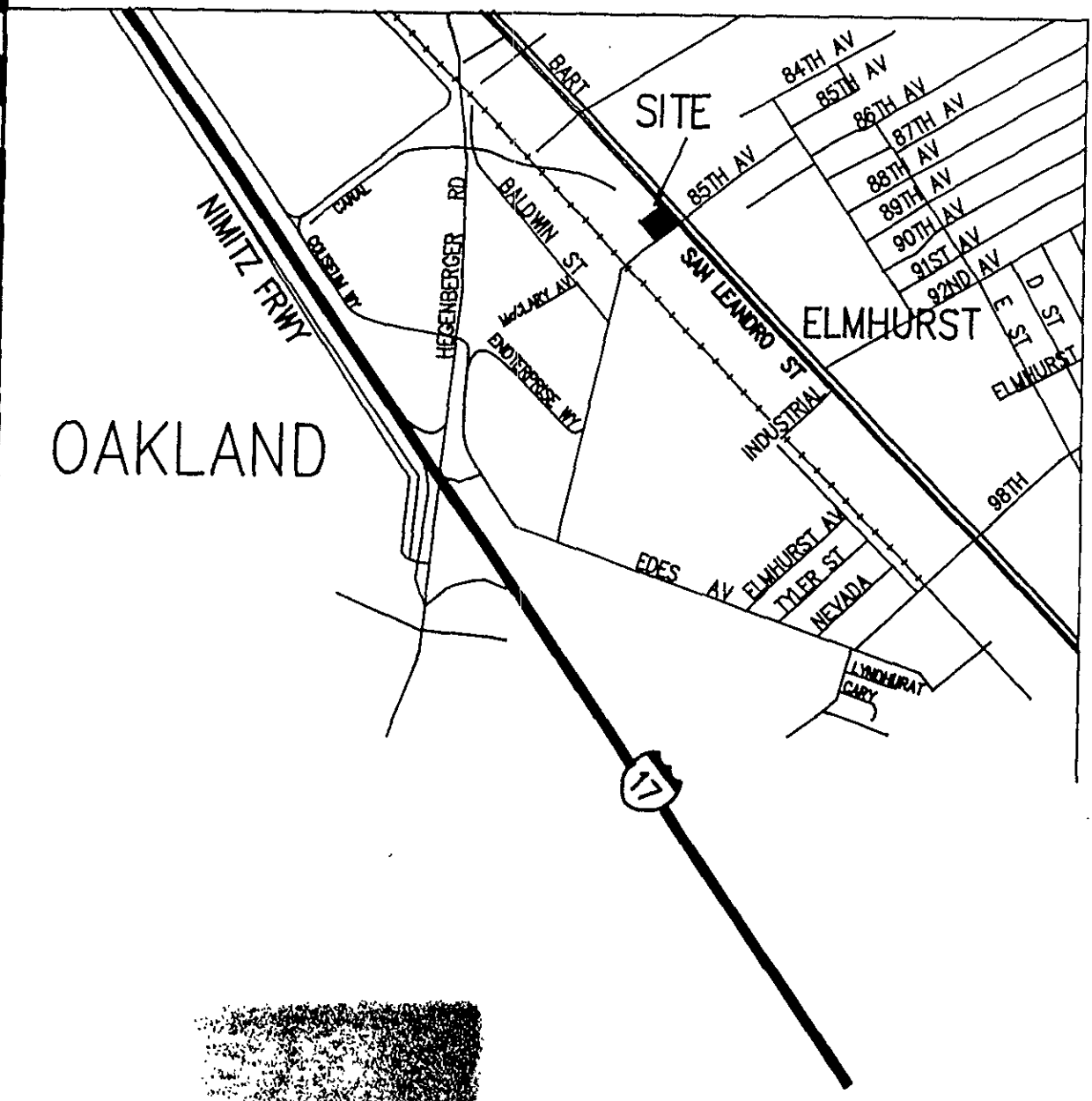
In September 1993 three monitoring wells (MW-1 through MW-3) were installed around the immediate vicinity of the former UST pit. Well MW-3 encountered river gravels at 5' to 15' bgs. Wells MW-1 encountered clayey silts to a depth of 18' bgs, while well MW-2 encountered sandy silts to a depth of 25' bgs. Groundwater appeared to be under confined conditions in well MW-1 and MW-2. Groundwater gradient could not be determined since well MW-3 was not constructed in similar geologic formation as wells MW-1 and MW-2. (See Fig 4 and Well logs)

Groundwater has been sampled six times (5, 6, and 11/1994, 8/1995, 1 and 9/1996) without identifying remarkable levels of hydrocarbon contamination, with the exception of the sampling event in January 1996 which identified up to 43,000 ppb TPHg, 530 ppb MTBE, and 530, 260, 1,100, and 7,200 ppb BTEX, respectively, in well MW-3. These results are anomalous since the sampling event in September 1996 did not identify hydrocarbons in groundwater in well MW-3. (See Table 3).

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- little or no groundwater impact currently exists;
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

a&bauto.1



Scale is approximate

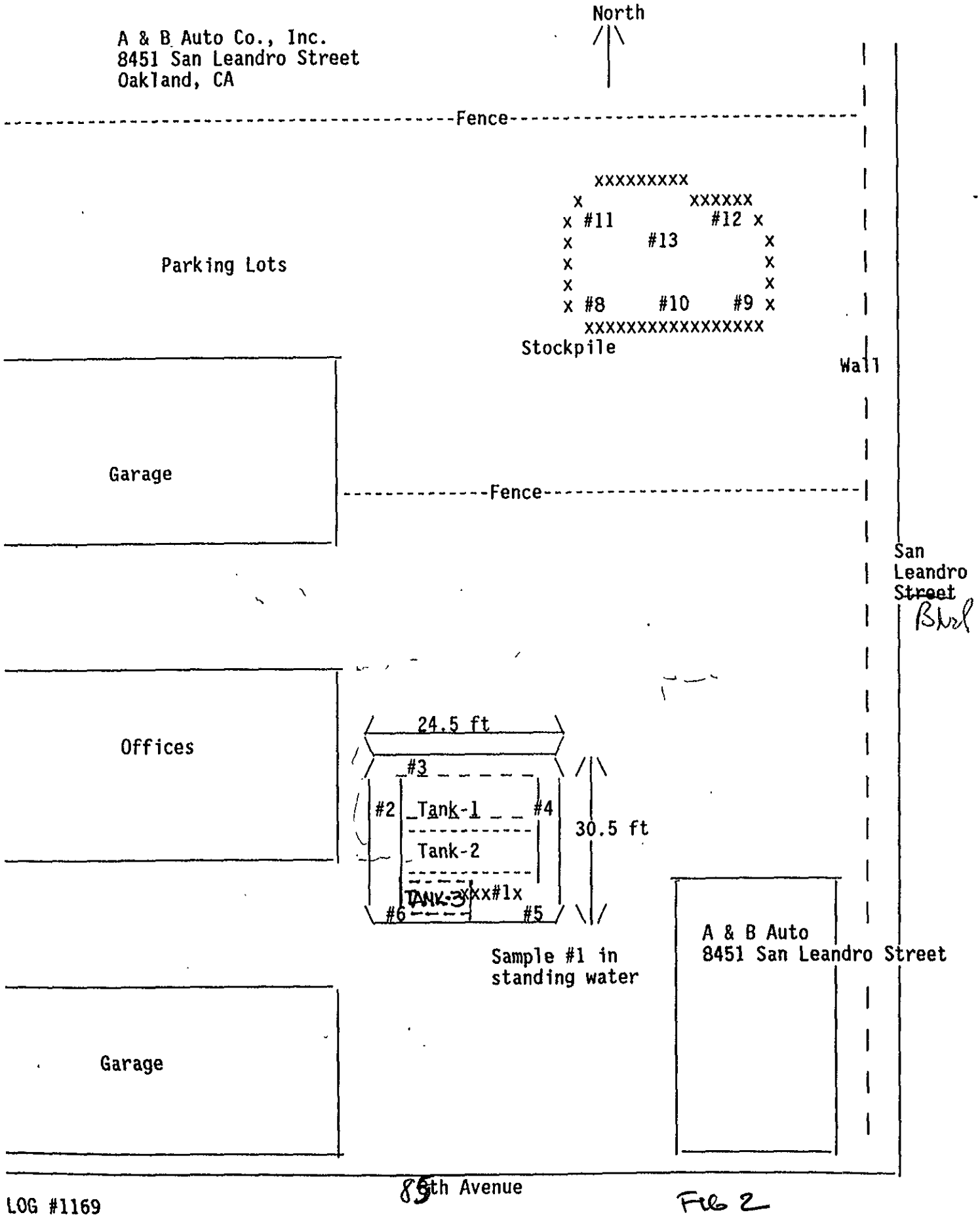
TITLE: SITE LOCATION MAP	SCALE: AS SHOWN
SITE A & B AUTO	PROJECT # 92002
ADDRESS: 8451 SAN LEANDRO STREET, OAKLAND, CA. 94621	DATE: MAY 24, 1994

DENNIS BATES ASSOCIATES, INC.

494 Alvarado Street, Suite B Monterey, CA. 93940
1020 Railroad Ave. Suite E, Novato, CA.94945

FIGURE: 1

TAL Trace Analysis Laboratory, Inc.



LOG #1169

Fig 2

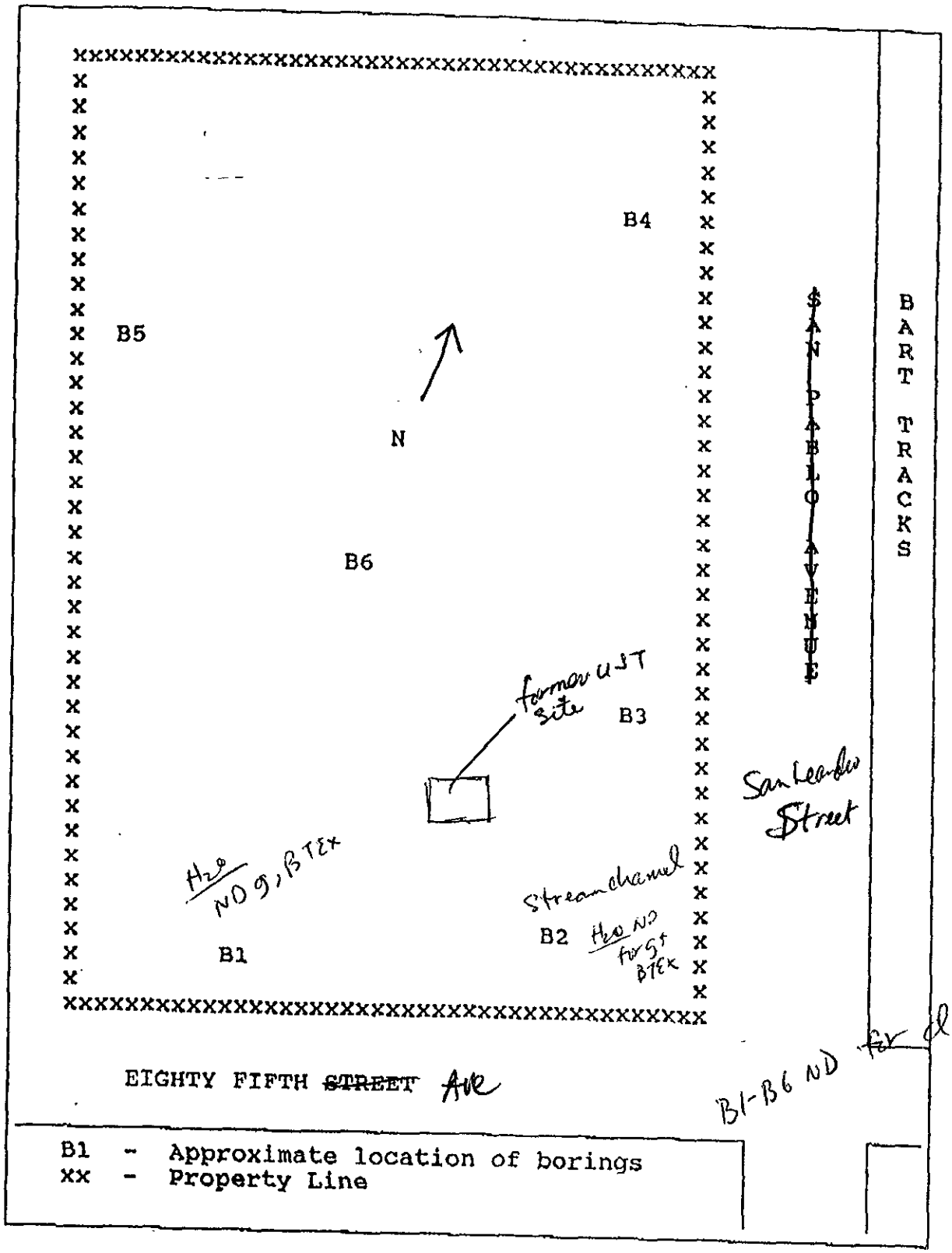
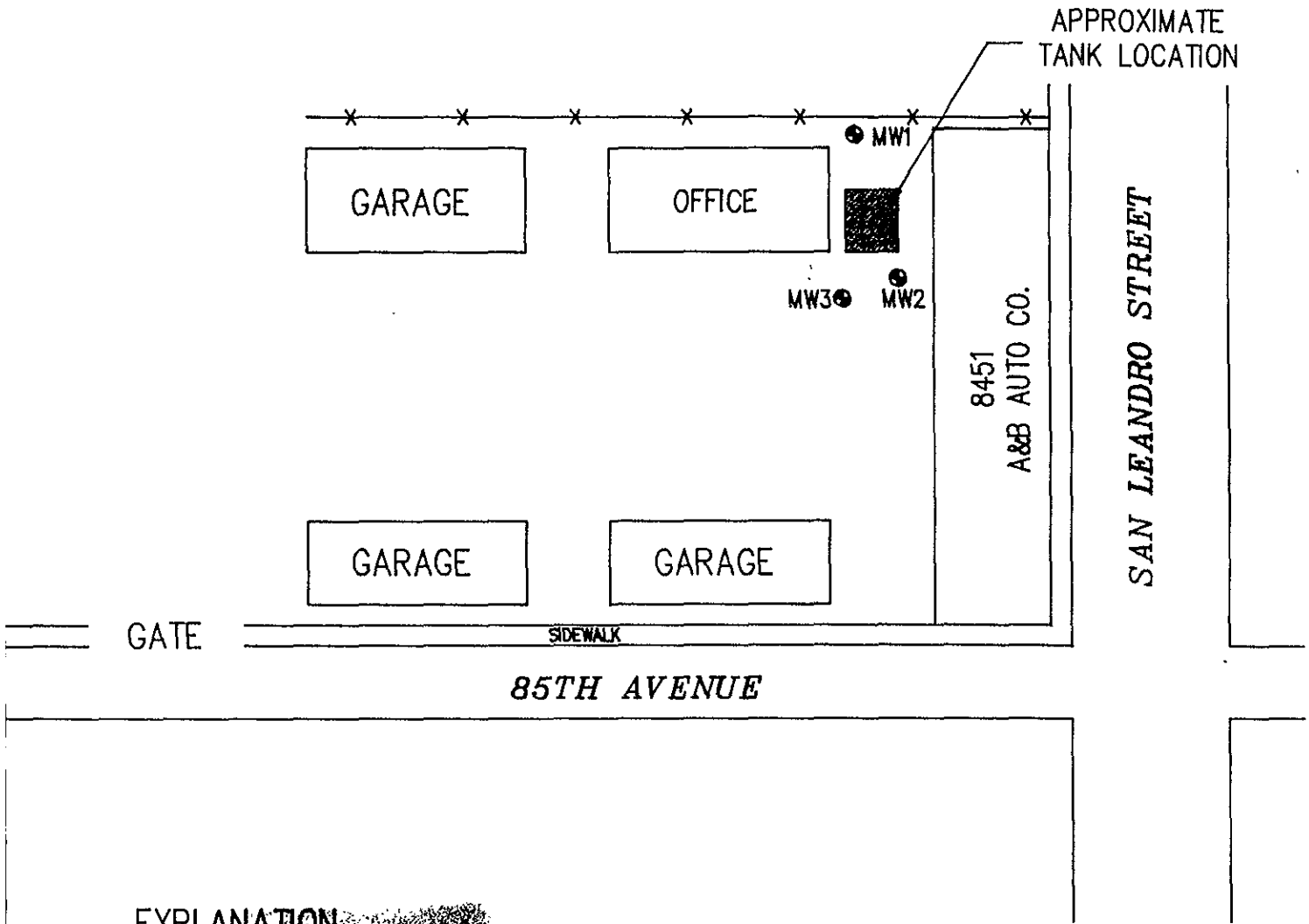


PLATE 1

LOCATION OF TEST BORINGS
A & B AUTO

(not to scale)

FIG 3



EXPLANATION

MW1 ● MONITORING WELL

REFERENCE: DBA FIELD SKETCH, SEPTEMBER 1993

N

TITLE: SITE PLAN SHOWING MONITORING WELL LOCATIONS SITE A & B AUTO ADDRESS: 8451 SAN LEANDRO STREET, OAKLAND, CA. 94621	SCALE: NOT TO SCALE PROJECT # 92002 DATE: MAY 24, 1994

DENNIS BATES ASSOCIATES, INC.
494 Alvarado Street, Suite B Monterey, CA. 93940
1020 Railroad Ave. Suite E, Novato, CA.94945

FIGURE 4

tanks was performed by Trace Analysis Laboratory, Inc. (TAL) and submitted to TAL for certified laboratory analyses. The results of these analyses are summarized in Tables I and Ia.

Table I- Results of Soil Sample Analyses

Sample #	TPH-D (ppm)	TPH-G (ppm)	B	T	X	E
			(ppm)			
(B) 2	8.6	10	.83	.026	.40	.093
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4	2.7	N.D.	N.D.	N.D.	N.D.	N.D.
5	2.3	1.7	N.D.	N.D.	.047	.0062
6	3.1	3.6	.036	.0069	.14	.065
7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
8*	4,100	980	N.D.	3.8	130	26
9*	870	13	N.D.	.018	.25	N.D.
10*	1,300	93	N.D.	N.D.	2.2	N.D.
11*	6,200	1,100	N.D.	2.9	150	14
12*	170	5.6	N.D.	.0086	.14	N.D.
13*	1,400	1,000	N.D.	N.D.	160	13

* Samples (8-13) acquired from the stockpile of excavated soil. All other soil samples acquired from the boundaries of the tank pit excavation

TPH-D...Total Petroleum Hydrocarbons as Diesel
TPH-G...Total Petroleum Hydrocarbons as Gasoline
BTX&E...Benzene, toluene, total xylenes, and ethylbenzene
N.D....Not detected at or above the reporting limit (please see laboratory reports attached as Appendix "A" for detection limits appropriate to the referenced sampling event)
N.A....No reference to Sample #7 appears in sampling or analytical data
ppm...Parts per million

TABLE 2

TAL Trace Analysis Laboratory, Inc.

LOG NUMBER: 1169
DATE SAMPLED: 7/31/91
DATE RECEIVED: 7/31/91
DATE ANALYZED: 8/14/91
DATE REPORTED: 8/16/91
PAGE: Four

TANK PIT GRAB WATER SAMPLE

Sample Type: Water

Method and Constituent:	Units	#1 Concentration	#1 Reporting Limit	Method Blank Concentration	Method Blank Reporting Limit
DHS Method:					
Total Petroleum Hydrocarbons as Gasoline	ug/l	22,000	520	ND	50
Modified EPA Method 8020:					
Benzene	ug/l	860	190	ND	0.50
Toluene	ug/l	ND	200	ND	0.50
Xylenes	ug/l	8,300	620	ND	1.5
Ethylbenzene	ug/l	1,700	190	ND	0.50

QC Summary:

% Recovery: 100
% RPD: 11

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

Sample Type: Water

Method and Constituent:	Units	#1 Concentration	#1 Reporting Limit	Method Blank Concentration	Method Blank Reporting Limit
DHS Method:					
Total Petroleum Hydrocarbons as Diesel	ug/l	35,000	50	ND	50

QC Summary:

% Recovery: 90
% RPD: 3.4

TABLE 3

Well MW-1	DTW	TPHg	B	T	E	X	TPHd
5/4/94	6.90	ND	ND	ND	ND	ND	NA
6/24/94	6.45	ND	ND	ND	ND	ND	90
11/21/94	5.75	ND	ND	ND	ND	ND	60
8/10/95	6.47	ND	ND	ND	ND	ND	ND
1/18/96	5.67	ND	ND	ND	ND	ND	ND
8/29/96	6.27	ND	ND	ND	ND	ND	ND
Well MW-2							
5/4/94	7.05	ND	ND	ND	ND	ND	NA
6/24/94	7.39	ND	ND	ND	ND	ND	90
11/21/94	6.86	ND	ND	ND	ND	ND	NA
8/10/95	9.68	ND	ND	ND	ND	ND	ND
1/18/96	8.71	ND	ND	ND	ND	ND	ND
8/29/96	9.46	ND	ND	ND	ND	ND	ND
Well MW-3							
5/4/94	6.58	ND	ND	ND	ND	ND	NA
6/24/94	6.86	ND	ND	ND	ND	ND	90
11/21/94	5.77	ND	ND	ND	ND	ND	60
8/10/95	6.61	ND	ND	ND	ND	ND	ND
1/18/96	5.83	43,000	260	3,000	1,100	7,200	ND
8/29/96	6.40	ND	ND	ND	ND	ND	ND

EXPLORATORY BORING LOG

PROJECT NAME: A&B AUTO
ADDRESS :8451 SAN LEANDRO, OAKLAND
DENNIS BATES ASSOCIATES

BORING NUMBER: B1
DATE DRILLED : 10/20/92
LOGGED BY : WH

DEPTH	SAMPLE	DESCRIPTION OF SOIL EOB: 17.5 FEET BLS HOLE GROUTED TO SURFACE WITH NEAT CEMENT
1	X	6 INCHES ASPHALT OVER 6 INCHES ROAD BASE
2	X	SOIL SAMPLE - B1S
3		
4		DARK GREY TO BLACK BAY MUD
5		1 TO 15 FEET BLS
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		STIFF SILTY SAND
17		WATER AT 15.5 FEET BLS
18		EOB 17.5 FEET BLS
19		
20		
21		
22		

EXPLORATORY BORING LOG

PROJECT NAME: A&B AUTO
ADDRESS :8451 SAN LEANDRO, OAKLAND
DENNIS BATES ASSOCIATES

BORING NUMBER: B2
DATE DRILLED : 10/20/92
LOGGED BY : WH

DEPTH	SAMPLE	DESCRIPTION OF SOIL
		EOB: 22 FEET BLS HOLE GROUTED TO SURFACE WITH NEAT CEMENT
1	X	FILL/CLAY SOIL TO 2.5 FEET
2	X	SOIL SAMPLE - B2S
3		ALLUVIUM , VALLEY FILL, GRAY GREEN TO BROWN SILTY CLAY
4		2.5 TO 4 FEET BLS
5		SILTY BROWN CLAY, BROWN MOIST WITH ANGULAR TO
6		SUB ANGULAR PEBBLES
7		4 TO 14.5 FEET BLS
8		POSSIBLE FIRST WATER AT 8.5 FEET BLS
9		
10		
11		
12		
13		
14		STREAM TERRRACE GRAVELS
15		GRAVEL IS COARSE, ROUNDED TO SUB ROUNDED TO ANGULAR
16		14.5 TO 20 FEET BLS
17		
18		SATURATED/ WATER IN GRAVEL
19		
20		
21		GRAY/GREEN SAND OR SANDY SILT AT BASE EOB 22 FEET BLS
22		

EXPLORATORY BORING LOG

PROJECT NAME: A&B AUTO
ADDRESS :8451 SAN LEANDRO, OAKLAND
DENNIS BATES ASSOCIATES

BORING NUMBER: B3
DATE DRILLED : 10/20/92
LOGGED BY : WH

DEPTH	SAMPLE	DESCRIPTION OF SOIL EOB: 22 FEET BLS HOLE GROUTED TO SURFACE WITH NEAT CEMENT
1	X	3 INCHES ASPHALT OVER 4 INCHES ROAD BASE
2	X	SOIL SAMPLE - B3S SILTY CLAY, BROWN TO DARK BROWN - SURFACE/VALLEY FILL
3		
4		BAY MUD DARK GREY TO BLACK CLAYEY SILT 2.5 TO 9 FEET BLS
5		
6		
7		
8		
9		BASE OF BAY MUD AT 9 FEET BLS
10		TOP OF LIGHT TAN/GREY/SLIGHTLY SILTY CLAY
11		SOFT/PLIABLE
12		
13		..BEDDING LIGHT TAN/GRAY/GREEN CLAY POSSIBLE GYPSUM LAYERS...
14		
15		CLAY AS DESCRIBED ABOVE SOFT AND MOIST BUT NO WATER
16		
17		
18		
19		WATER AT 19.5 FEET BLS
20		CLEAN, GREY QUARTZ SAND, FINE TO VERY FINE TO SILTY ROUNDED TO SUB ROUNDED ANGULAR, FRIABLE
21		
22		EOB 22 FEET BLS

EXPLORATORY BORING LOG

ROJECT NAME: A&B AUTO
DDRESS :8451 SAN LEANDRO, OAKLAND
ENNIS BATES ASSOCIATES

BORING NUMBER: B4
DATE DRILLED : 10/20/92
LOGGED BY : WH

DEPTH	SAMPLE	DESCRIPTION OF SOIL EOB: 18.5 FEET BLS HOLE GROUTED TO SURFACE WITH NEAT CEMENT
1	X	5 INCHES ASPHALT OVER 6 INCHES BASE ROCK
2	X	SOIL SAMPLE - B4S FILL ?? TO 2.5 FEET BLS
3		ROAD BASE 2.5 TO 6.5 FEET BLS
7		'BAY MUD' - DARK GRAY WITH ANGULAR INCLUSIONS 6.5 TO 8 FEET BLS
10		DARK GRAY SILTY CLAY WITH ANGULAR PEBBLES THROUGHOUT MASSIVE 8 TO 18.5 FEET BLS
19		AS ABOVE - SILT APPEARS SLIGHTLY SANDY WITH MICACEOUS PARTICLES
21		WATER AT 18.5 FEET BLS

EXPLORATORY BORING LOG

ROJECT NAME: A&B AUTO
DDRESS :8451 SAN LEANDRO, OAKLAND
)ENNIS BATES ASSOCIATES

BORING NUMBER: B5
DATE DRILLED : 10/20/92
LOGGED BY : WH

DEPTH	SAMPLE	DESCRIPTION OF SOIL EOB: 20 FEET BLS HOLE GROUTED TO SURFACE WITH NEAT CEMENT
1	X	FILL - ROAD BASE ROCK TO 2.5 FEET BLS
2	XX	SOIL SAMPLE - B5S
3		.....
4		'BAY MUD' - DARK GREY TO BLACK (ORGANIC) 2.5 TO 5.5 FEET BLS
5		
6		.....
7		CLAY - DARK BROWN TO BROWN - STREAKED, MASSIVE 5.5 TO 10 FEET BLS
8		
9		NOTE: DRY TO 10 FEET BLS
10		.....
11		
12		LIGHT BROWN MASSIVE CLAY - "BALLS" MALLEABLE MOIST
13		
14		10 TO 15.5 FEET BLS
15		
16		.....
17		
18		
19		VERY FINE BLUE/GRAY SILTY CLAY SATURATED
20		.....
21		WATER AT 19.5 FEET BLS
22		

EXPLORATORY BORING LOG

PROJECT NAME: A&B AUTO
ADDRESS :8451 SAN LEANDRO, OAKLAND
DENNIS BATES ASSOCIATES

BORING NUMBER: B6
DATE DRILLED : 10/20/92
LOGGED BY : WH

DEPTH	SAMPLE	DESCRIPTION OF SOIL EOB: 20 FEET BLS HOLE GROUTED TO SURFACE WITH NEAT CEMENT
1	X	FILL/CLAY SOIL TO 2.5 FEET
2	X	SOIL SAMPLE - B6S
3		
4		SILTY SAND - BROWN, FINE, UNIFORM (MOIST) TO 2.5 TO 13 FEET BLS
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		MEDIUM GRAVEL - SANDY (SATURATED) 13 TO 19.5 FEET BLS
15		
16		
17		
18		
19		MEDIUM GRAVEL, COARSE WITH OCCASIONAL LARGE PEBBLES TO 1/2" - 19 TO 20 FEET BLS
20		
21		BLUE/GREEN CLAY AT BASE WATER AT 19.5 FEET BLS
22		

BORING NUMBER:
TOTAL BORING DEPTH: 25'
CASING DIAMETER: 2 inches
SCREEN DIAMETER: 2 inches
DRILLING CONTRACTOR: Hew Drilling Company
METHOD USED: Hollow Stem, CME55

WELL ID: MW1
BORING DIAMETER: 7"
CASING LENGTH: 15 feet
SCREEN LENGTH: 10 feet

DATE DRILLED: 11/11/93
MATERIAL TYPE: PVC
SLOT SIZE: 0.010
LICENSE:

LOGGED BY: Walt Howe, R.G.

REVIEWED BY: J. SAMMONS R.G.

DEPTH	SAMPLE	MEASURED	BLOWS	USCS CODE	DESCRIPTION	WELL CONST DETAIL
-0-					Asphalt – 8" thick Baserock – 1' thick	
-2-						
-4-					DARK GREY to BLACK SILTY CLAY (Bay mud)	Neat Cement
-6-	X					
-8-						
-10	X				LIGHT TAN to GREY SILTY CLAY	Bentonite
-12						
-14						
-16						Lonestar no. 2/12
-18						
-20	X				GREYISH GREEN SILTY SAND, wet	
-22						
-24						
-26					GREY CLAY, stiff	
-28						
-30						
-32						
-34						
-36						
-38						
-40					Water @ 7' after 2 hours	
-42						
-44						

DENNIS BATES ASSOCIATES, INC.

MONITORING WELL/SOIL BORING LOG
[WELL CONSTRUCTION DETAILS]

DBA PROJECT: 92002
PROJECT NAME: A & B Auto Parts
PROJECT ADDRESS: 8451 San Leandro Ave., Oakland

BORING NUMBER: **WELL ID:** MW2
TOTAL BORING DEPTH: 25' **BORING DIAMETER:** 7" **DATE DRILLED:** 11/11/93
CASING DIAMETER: 2 inches **CASING LENGTH:** 15 feet **MATERIAL TYPE:** PVC
SCREEN DIAMETER: 2 inches **SCREEN LENGTH:** 10 feet **SLOT SIZE:** 0.010
DRILLING CONTRACTOR: Hew Drilling Company **LICENSE:**
METHOD USED: Hollow Stem, CME55

LOGGED BY: Walt Howe, R.G. **REVIEWED BY:** J. SAMMONS R.G.

DEPTH	SAMPLE	FIELD MEASURE	BLOWS	USCS CODE	DESCRIPTION	WELL CONST DETAIL
-0-					Asphalt – 2" thick	
-2-					Baserock – 8" thick	
-4-						Neat Cement
-6-	X				BROWN SANDY CLAY, roots	
-8-					● 5 – 10' gradational to tan	
-10						
-12	X					Bentoni
-14					TAN to GREY CLAY, iron staining	
-16	X				● 13' moist	
-18						Lonest no. 2,
-20						
-22					GREY SANDY SILT,	
-24					gradational contact	
-26						
-28					GREY CLAY, stiff	
-30						
-32						
-34						
-36						
-38						
-40					Water ● 7' after 2 hours	
-42						
-44						

DENNIS BATES ASSOCIATES, INC.

MONITORING WELL/SOIL BORING LOG
[WELL CONSTRUCTION DETAILS]

DBA PROJECT: 92002

PROJECT NAME: A & B Auto Parts
PROJECT ADDRESS: 8451 San Leandro Ave., Oakland

BORING NUMBER:
WELL ID: MW3
TOTAL BORING DEPTH: 15'
BORING DIAMETER: 7"
DATE DRILLED: 11/11/93
CASING DIAMETER: 2 inches
CASING LENGTH: 15 feet
MATERIAL TYPE: PVC
SCREEN DIAMETER: 2 inches
SCREEN LENGTH: 10 feet
SLOT SIZE: 0.010
DRILLING CONTRACTOR: Hew Drilling Company
LICENSE:
METHOD USED: Hollow Stem, CME55

LOGGED BY: Walt Howe, R.G.
REVIEWED BY: J. SAMMONS R.G.

DEPTH	SAMPLE	PID/FID MEASURE	BLOWS	USCS CODE	DESCRIPTION	WELL CONST DETAIL
-0-					Asphalt – 2" thick	Neat Cement
-2-					Baserock – 1' thick	
-4-					BROWN SILTY CLAY, moist	
-6-	X					Bentonite
-8-					GRAVEL, coarse, rounded to sub–rounded, to angular	Lonestar no. 2/12
-10						
-12						
-14						
-16					TAN CLAY, fat	
-18						
-20						
-22						
-24						
-26						
-28						
-30						
-32						
-34						
-36						
-38						
-40					Water @ 3' after 1 hour	
-42						
-44						

DENNIS BATES ASSOCIATES, INC.

MONITORING WELL/SOIL BORING LOG
[WELL CONSTRUCTION DETAILS]

DBA PROJECT: 92002
PROJECT NAME: A & B Auto Parts
PROJECT ADDRESS: 8451 San Leandro Ave., Oakland