

**Trace Analysis Laboratory, Inc.**

3423 Investment Boulevard, #8 • Hayward, California 94545

Telephone (510) 783-6960  
Facsimile (510) 783-1512



LOG NUMBER: 1978  
DATE SAMPLED: 04/08/92  
DATE RECEIVED: 04/08/92  
DATE EXTRACTED: 04/23/92  
DATE ANALYZED: 04/29/92 and 04/30/92  
DATE REPORTED: 05/04/92

CUSTOMER: Joseph Zatkan  
REQUESTER: Joseph Zatkan  
PROJECT: 900 Doolittle Drive

Sample Type: Water

Method and Constituent:	Units	DLT-1, 5053		DLT-3, 5050		Method Blank	
		Concentration	Reporting Limit	Concentration	Reporting Limit	Concentration	Reporting Limit
DHS Method: Total Petroleum Hydrocarbons as Diesel	ug/l	ND	50	ND	50	ND	50

QC Summary:

% Recovery: 74  
% RPD: 1.4

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

These samples were extracted 1 day beyond the 14-day holding time for this extraction.

LOG NUMBER: 1978  
 DATE SAMPLED: 04/08/92  
 DATE RECEIVED: 04/08/92  
 DATE ANALYZED: 04/21/92  
 DATE REPORTED: 05/04/92  
 PAGE: Two

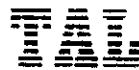
Sample Type: Water

Method and Constituent:	Units	DLT-2, 5049		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
DHS Method:					
Total Petroleum Hydro- carbons as Gasoline	ug/l	ND	50	ND	50
EPA Method 8020 for:					
Benzene	ug/l	ND	0.50	ND	0.50
Toluene	ug/l	ND	0.50	ND	0.50
Ethylbenzene	ug/l	ND	0.50	ND	0.50
Xylenes	ug/l	ND	1.5	ND	1.5

QC Summary:

% Recovery: 114  
 % RPD: 13

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



LOG NUMBER: 1978  
 DATE SAMPLED: 04/08/92  
 DATE RECEIVED: 04/08/92  
 DATE EXTRACTED: 04/27/92  
 DATE ANALYZED: 04/30/92  
 DATE REPORTED: 05/04/92  
 PAGE: Three

Sample Type: Water

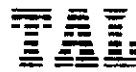
Method and Constituent:	Units	DLT-1, 5053		DLT-3, 5050		DLT-4, 5052	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
Standard Method 5520F Hydrocarbons:							
Oil and Grease	ug/l	7,500	1,000	ND	1,000	2,000	1,000

Method and Constituent:	Units	Method Blank	
		Concen- tration	Reporting Limit
Standard Method 5520F Hydrocarbons:			
Oil and Grease	ug/l	ND	1,000

QC Summary:

% Recovery: 64  
 % RPD: 11

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



LOG NUMBER: 1978  
DATE SAMPLED: 04/08/92  
DATE RECEIVED: 04/08/92  
DATE ANALYZED: 04/11/92  
DATE REPORTED: 05/04/92  
PAGE: Four

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>DLT-1, 5053</u>		<u>DLT-2, 5049</u>		<u>DLT-3, 5050</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 8010:							
Benzyl Chloride	ug/l	ND	0.50	ND	0.50	ND	0.50
Bis (2-Chloroethoxy) Methane	ug/l	ND	0.50	ND	0.50	ND	0.50
Bis (2-Chloroisopropyl) Ether	ug/l	ND	0.50	ND	0.50	ND	0.50
Bromobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Bromodichloromethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Bromoform	ug/l	ND	0.50	ND	0.50	ND	0.50
Bromomethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Carbon Tetrachloride	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloracetaldehyde	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloral	ug/l	ND	0.50	ND	0.50	ND	0.50
Chlorobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloroform	ug/l	ND	0.50	ND	0.50	ND	0.50
1-Chlorohexane	ug/l	ND	0.50	ND	0.50	ND	0.50
2-Chloroethyl Vinyl Ether	ug/l	ND	0.50	ND	0.50	ND	0.50

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



LOG NUMBER: 1978  
DATE SAMPLED: 04/08/92  
DATE RECEIVED: 04/08/92  
DATE ANALYZED: 04/11/92  
DATE REPORTED: 05/04/92  
PAGE: Five

Sample Type: Water

Method and Constituent	Units	DLT-1, 5053		DLT-2, 5049		DLT-3, 5050	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8010 (Continued):							
Chloromethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloromethyl Methyl Ether	ug/l	ND	0.50	ND	0.50	ND	0.50
Chlorotoluene	ug/l	ND	0.50	ND	0.50	ND	0.50
Dibromochloromethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Dibromomethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,2-Dichlorobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
1,3-Dichlorobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
1,4-Dichlorobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Dichlorodifluoromethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1-Dichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,2-Dichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1-Dichloroethylene	ug/l	ND	0.50	1.5	0.50	ND	0.50
Trans-1,2-Dichloro- ethylene	ug/l	ND	0.50	ND	0.50	ND	0.50
Dichloromethane	ug/l	ND	3.5	ND	3.5	ND	3.5
1,2-Dichloropropane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,3-Dichloropropylene	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1,2,2-Tetrachloro- ethane	ug/l	ND	0.50	ND	0.50	ND	0.50

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

LOG NUMBER: 1978  
 DATE SAMPLED: 04/08/92  
 DATE RECEIVED: 04/08/92  
 DATE ANALYZED: 04/11/92  
 DATE REPORTED: 05/04/92  
 PAGE: Six

Sample Type: Water

Method and Constituent	Units	DLT-1, 5053		DLT-2, 5049		DLT-3, 5050	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8010 (Continued):							
1,1,1,2-Tetrachloro- ethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Tetrachloroethylene	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1,1-Trichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1,2-Trichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Trichloroethylene	ug/l	0.91	0.50	12	0.50	190	0.50
Trichlorofluoro- methane	ug/l	ND	0.50	ND	0.50	ND	0.50
Trichloropropane	ug/l	ND	0.50	ND	0.50	ND	0.50
Vinyl Chloride	ug/l	ND	1.5	11	1.5	ND	1.5

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

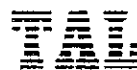


LOG NUMBER: 1978  
DATE SAMPLED: 04/08/92  
DATE RECEIVED: 04/08/92  
DATE ANALYZED: 04/11/92  
DATE REPORTED: 05/04/92  
PAGE: Seven

Sample Type: Water

Method and Constituent	Units	DLT-4, 5052		DLT-5, 5051		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8010:							
Benzyl Chloride	ug/l	ND	0.50	ND	0.50	ND	0.50
Bis (2-Chloroethoxy) Methane	ug/l	ND	0.50	ND	0.50	ND	0.50
Bis (2-Chloroisopropyl) Ether	ug/l	ND	0.50	ND	0.50	ND	0.50
Bromobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Bromodichloromethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Bromoform	ug/l	ND	0.50	ND	0.50	ND	0.50
Bromomethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Carbon Tetrachloride	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloracetaldehyde	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloral	ug/l	ND	0.50	ND	0.50	ND	0.50
Chlorobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloroform	ug/l	ND	0.50	ND	0.50	ND	0.50
1-Chlorohexane	ug/l	ND	0.50	ND	0.50	ND	0.50
2-Chloroethyl Vinyl Ether	ug/l	ND	0.50	ND	0.50	ND	0.50

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



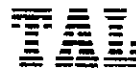
LOG NUMBER: 1978  
DATE SAMPLED: 04/08/92  
DATE RECEIVED: 04/08/92  
DATE ANALYZED: 04/11/92  
DATE REPORTED: 05/04/92  
PAGE: Eight

Sample Type: Water

Method and Constituent	Units	DLT-4, 5052		DLT-5, 5051		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8010 (Continued):							
Chloromethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Chloromethyl Methyl Ether	ug/l	ND	0.50	ND	0.50	ND	0.50
Chlorotoluene	ug/l	ND	0.50	ND	0.50	ND	0.50
Dibromochloromethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Dibromomethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,2-Dichlorobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
1,3-Dichlorobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
1,4-Dichlorobenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Dichlorodifluoromethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1-Dichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,2-Dichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1-Dichloroethylene	ug/l	ND	0.50	ND	0.50	ND	0.50
Trans-1,2-Dichloro- ethylene	ug/l	ND	0.50	ND	0.50	ND	0.50
Dichloromethane	ug/l	ND	3.5	ND	3.5	5.5	3.5
1,2-Dichloropropane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,3-Dichloropropylene	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1,2,2-Tetrachloro- ethane	ug/l	ND	0.50	ND	0.50	ND	0.50

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





LOG NUMBER: 1978  
DATE SAMPLED: 04/08/92  
DATE RECEIVED: 04/08/92  
DATE ANALYZED: 04/11/92  
DATE REPORTED: 05/04/92  
PAGE: Nine

Sample Type: Water

Method and Constituent	Units	DLT-4, 5052		DLT-5, 5051		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8010 (Continued):							
1,1,1,2-Tetrachloro- ethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Tetrachloroethylene	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1,1-Trichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1,2-Trichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
Trichloroethylene	ug/l	13	0.50	6.2	0.50	ND	0.50
Trichlorofluoro- methane	ug/l	ND	0.50	ND	0.50	ND	0.50
Trichloropropane	ug/l	ND	0.50	ND	0.50	ND	0.50
Vinyl Chloride	ug/l	ND	1.5	ND	1.5	ND	1.5

QC Summary:

% Recovery: 95  
% RPD: 15

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



LOG NUMBER: 1978  
DATE SAMPLED: 04/08/92  
DATE RECEIVED: 04/08/92  
DATE EXTRACTED: 04/13/92  
DATE ANALYZED: 04/19/92  
DATE REPORTED: 05/04/92  
PAGE: Ten

Sample Type: Water

Method and Constituent:	Units	DLT-2, 5049		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7520:							
Nickel	ug/l	ND	300	ND	300	85	*

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

\* The RPD is not reportable since the sample prepared in duplicate was not detectable.

LOG NUMBER: 1978  
 DATE SAMPLED: 04/08/92  
 DATE RECEIVED: 04/08/92  
 DATE EXTRACTED: 04/13/92  
 DATE ANALYZED: 04/19/92  
 DATE REPORTED: 05/04/92  
 PAGE: Eleven

Sample Type: Water

Method and Constituent:	Units	DLT-1, 5053		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7950:							
Zinc	ug/l	ND	50	ND	50	77	0.21

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

*Louis W. DuPuis*  
 \_\_\_\_\_  
 Louis W. DuPuis  
 Quality Assurance/Quality Control Manager

**CHAIN OF CUSTODY**

project #		project name		project site address		sample type		analysis	
QU-300 -0492		ZATKW		900 DOW LITTLE R. SAN LEANDRO, CA		gas bag - A water - W soil - S		NORMAL TAT  1978	
sampler B.D. McEVARS									
date	time	grab	comp						remarks
4-8-92	12:00	X		005049	W	X	X	X	DLT-2 1-500ml 2.40ml HCL, 2.40ml UN, HNO <sub>3</sub>
	12:30	X		005050	W	X	X		DLT-3 1L HCL, 1L UN, 2.40ml UN.
	1:15	X		005051	W		X		DLT-5 2.40ml UN.
	2:00	X		005052	W	X	X		DLT-4 1L HCL, 2.40ml UN
4-8-92	3:00	X		005053	W	X	X	X	DLT-1 1-500ml 1L HCL, 1L UN, 2.40ml UN, HNO <sub>3</sub>
									walk-in water white Bag TAT
relinquished by: B.D. McEVARS 4-8-92 3:30				received by: TAL Joanette 4/8/92 3:30		relinquished by:		received by:	
								page _____	

TOTAL OIL + GREASE  
 TPH DIESEL  
 TPH GAS OIL  
 EPA 0010  
 EN  
 NI

Plan **B** Environmental

124 N. 6th Street, San Jose, CA 95112  
Ph. (408) 294 - 7221

March 15, 1992

Mr. Joseph Zatkan

900 Doolittle Drive, Suite 1B

San Leandro, CA 94577

RE: Groundwater elevations at 900 Doolittle Drive, San Leandro, CA

Dear Mr. Zatkan,

The following are the groundwater depths and well elevations for the five groundwater monitoring wells located on the subject facility. Also included are the subsequent groundwater elevations :

	<u>Depth*</u>	<u>Elevation of Well**</u>	<u>Elevation of Groundwater</u>
DLT-1	5.46'	8.92	3.46
DLT-2	5.28'	8.37	3.09
DLT-3	4.16'	9.30	5.14
DLT-4	4.65'	9.77	5.12
DLT-5	5.74	9.80	4.06

If you have any questions regarding this groundwater data, or any other matter, please do not hesitate to contact me at your convenience.

Sincerely,

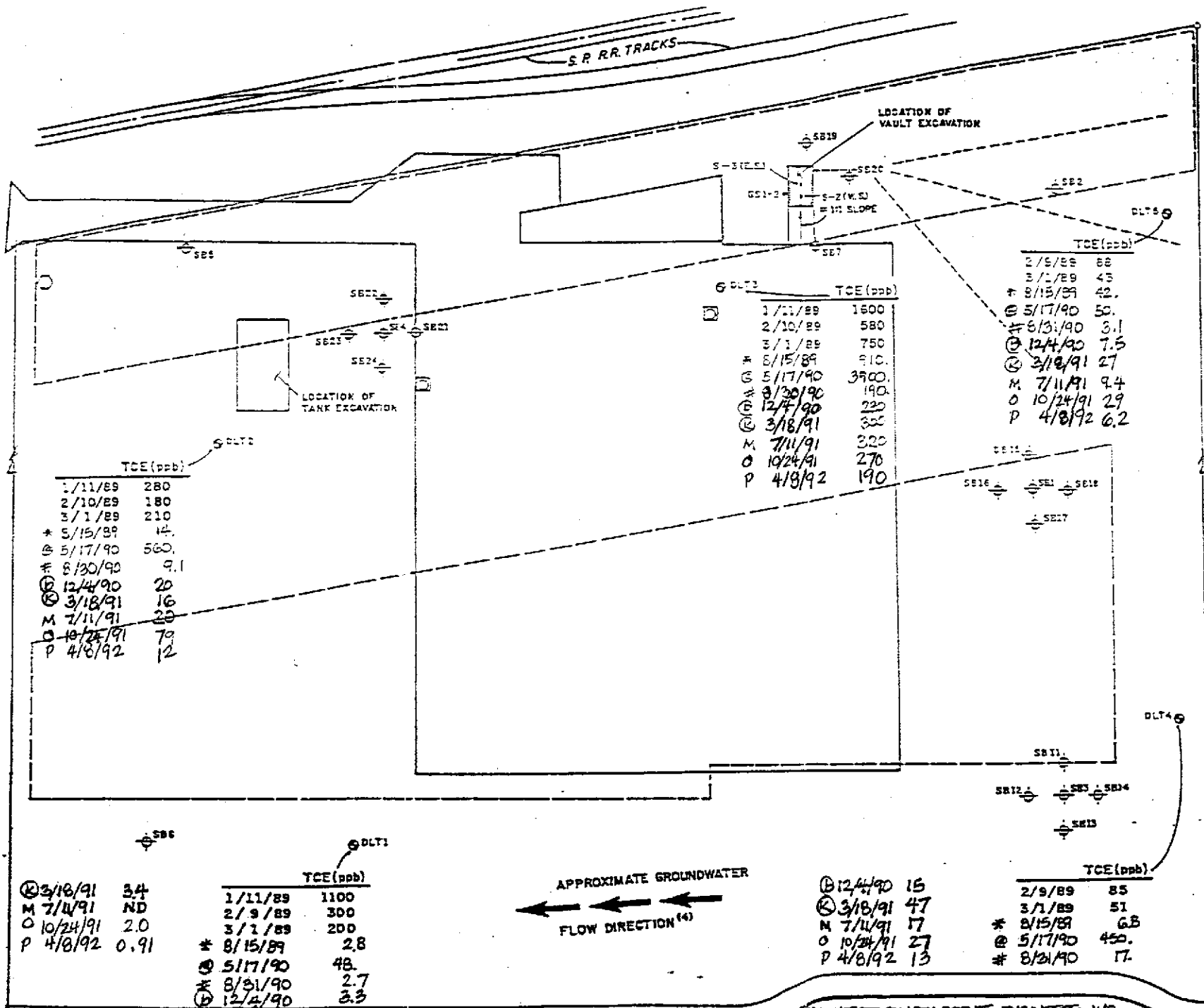


Bruce McEvers

Plan B Environmental

\* Measured from top of well casing.

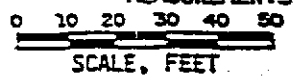
\*\* According to Bissel & Karn, Inc. survey report dated 2-7-92.



**EXPLANATION**

- GRAB SAMPLE
- ⊕ EXPLORATORY SOIL BORING
- ⊕ MONITORING WELL
- ⊕ CYLINDRICAL HOLE, CONCRETE LINED (SIDES AND BOTTOM)
- SUSPECTED WELL LOCATION
- LIMITS OF EXISTING CONCRETE SLAB, DRIVEWAY, ETC.
- - - LIMITS OF PROPOSED BUILDING
- - - - APPROXIMATE LOCATION OF VITRIFIED CLAY LEACHLINE
- PROPERTY LINE

- NOTES:**
- (1) BASE MAP: PROPERTY AT 900 DOOLITTLE DRIVE, SAN LEANDRO, CALIFORNIA; BATES AND BAILY LAND SURVEYORS, AUGUST 1987, 1"=20'
  - (2) ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
  - (3) LEACH LINE LOCATION PROVIDED BY CF and B BUILDERS
  - (4) BASED ON WATER LEVEL MEASUREMENTS OF 13 MARCH 1989



TCE (ppb)

1/11/89	280
2/10/89	180
3/1/89	210
* 5/15/89	14.
⊕ 5/17/90	560.
* 8/30/90	9.1
⊕ 12/4/90	20
⊕ 3/18/91	16
M 7/11/91	20
○ 10/24/91	70
P 4/8/92	12

TCE (ppb)

1/21/89	1600
2/10/89	580
3/1/89	750
* 5/15/89	910
⊕ 5/17/90	3900.
* 8/30/90	190.
⊕ 12/4/90	220
⊕ 3/18/91	350
M 7/11/91	320
○ 10/24/91	270
P 4/8/92	190

TCE (ppb)

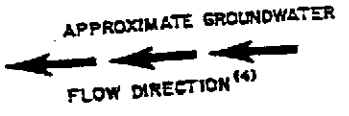
2/5/89	88
3/1/89	43
* 8/15/89	42.
⊕ 5/17/90	50.
* 8/30/90	3.1
⊕ 12/4/90	7.5
⊕ 3/18/91	27
M 7/11/91	9.4
○ 10/24/91	29
P 4/8/92	6.2

TCE (ppb)

⊕ 3/18/91	34
M 7/11/91	ND
○ 10/24/91	2.0
P 4/8/92	0.91

TCE (ppb)

1/11/89	1100
2/9/89	300
3/1/89	200
* 8/15/89	2.8
⊕ 5/17/90	48.
* 8/31/90	2.7
⊕ 12/4/90	2.3



TCE (ppb)

⊕ 12/4/90	15
⊕ 3/18/91	47
M 7/11/91	17
○ 10/24/91	27
P 4/8/92	13

TCE (ppb)

2/9/89	85
3/1/89	51
* 8/15/89	6.8
⊕ 5/17/90	450.
* 8/31/90	17.

\* MONITORED BY AQUA SCIENCE ENGINEERS, INC.  
 ⊕ MONITORED BY ENVIRON SAMPLE ANALYSIS, INC.  
 \* MONITORED BY CHIPS ENVIRONMENTAL CONSULTANTS, INC.

**APPLIED GEOSCIENCES INC.**  
 Engineering, Geology and Hydrologic Assessment Consultants

**DISTRIBUTION OF TCE IN MONITORING WELLS**  
**DOOLITTLE ASSOCIATES**  
 San Leandro, California

PROJECT NO. A881388      FIGURE 7