

Noted E. P. SO.
NINE HUNDRED DOOLITTLE ASSOCIATES
900 Doolittle Drive, Unit 1B
San Leandro, CA 94577
(415) 569-1099

DEC 30 1991

COPY

2012

K BAY COUNTY'S PROPERTIES

talked to Joseph on Jan 4, 1992 to include the determination of low flow direction & gradient in TCE subsurface

December 26, 1991

copy report
DEC 29 1991
QUALITY CONTROL BOARD

Alameda County Health Care Services
Hazardous Wastes Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Attention: Rafat A. Shahid & Larry Seto

Subject: 900 Doolittle Drive, San Leandro, CA 94577

Gentlemen:

Attached are reports from Trace Analysis Laboratory in Hayward indicating the results of their analyses of samples taken by K & B Enviromental, on July 11, 1991 from the five wells existing on our property at the above address. Attached also are copies of the Chain of Custody Field Report which includes Log Book entries.

These are the quarterly reports required from us.

You will note that the tests taken conform to those requested by you in your January 24, 1990 letter to us.

We have updated in ink the original maps from Applied Geosciences, Inc. showing not only their tests for TCE, in the wells, but the results of all tests of that type to date. A copy of that updated map is attached.

In addition we enclose a chart showing the results of well sampling on the property for the past six quarters beginning May 17, 1990. Please note that TOG has not appeared in tests from DLT 3 & DLT 4. ZN tests for DLT 1 are also negative except for small amounts on the 5/17/90 test, which would appear to be below action levels. The same can be said for DICHLOROMETHANE in DLT 1, DLT 3 & DLT 5.

After you review the test results well as this letter, we would appreciate your approval to eliminating required future testing for the elements in those wells named in the previous paragraph.

Thank you for your consideration of this request and for your cooperation in these matters.

Very truly yours

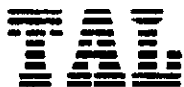
Joseph Zarkin
General Partner

cc: State Regional Water Quality Control Board
Applied Geosciences, Inc.
Bay County Properties

Trace Analysis Laboratory, Inc.

3423 Investment Boulevard, #8 • Hayward, California 94545

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



November 14, 1991

Mr. Joseph Zatkan
900 Doolittle Dr., No. 1B
San Leandro, California 94577

Dear Mr. Zatkan:

Trace Analysis Laboratory received five water samples on October 24, 1991 for your project, No. 00300-1091, 900 Doolittle Drive, San Leandro, CA (our custody log number 1449).

These samples were analyzed for Total Petroleum Hydrocarbons as Diesel, Gasoline, Benzene, Toluene, Ethylbenzene, Xylenes, Oil and Grease, EPA Method 8010, Nickel and Zinc. Our analytical report and a copy of the completed chain of custody form are enclosed for your review.

Trace Analysis Laboratory is certified under the California Environmental Laboratory Accreditation Program. Our certification number is 1199.

If you should have any questions or require additional information, please call me.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Jennifer Pekol', written in a cursive style.

Jennifer Pekol
Project Specialist

Enclosures

Trace Analysis Laboratory, Inc.

3423 Investment Boulevard, #8 • Hayward, California 94545

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

 LOG NUMBER: 1449
 DATE SAMPLED: 10/24/91
 DATE RECEIVED: 10/24/91
 DATE EXTRACTED: 11/01/91
 DATE ANALYZED: 11/02/91
 DATE REPORTED: 11/14/91

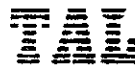
 CUSTOMER: Joseph Zatkan
 REQUESTER: Joseph Zatkan
 PROJECT: No. 00300-1091, 900 Doolittle Drive, San Leandro, CA

 Sample Type: Water

Method and Constituent:	Units	DLT-1		DLT-3		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
DHS Method:							
Total Petroleum Hydro- carbons as Diesel	ug/l	ND	50	ND	50	ND	50

QC Summary:
 % Recovery: 130
 % RPD: 15

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



LOG NUMBER: 1449
DATE SAMPLED: 10/24/91
DATE RECEIVED: 10/24/91
DATE ANALYZED: 10/30/91
DATE REPORTED: 11/14/91
PAGE: Two

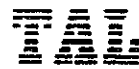
Sample Type: Water

Method and Constituent:	Units	DLT-2		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
DHS Method:					
Total Petroleum Hydro- carbons as Gasoline	ug/l	69	50	ND	50
EPA Method 8020 for:					
Benzene	ug/l	55	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: 71
% RPD: 8.5

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



LOG NUMBER: 1449
 DATE SAMPLED: 10/24/91
 DATE RECEIVED: 10/24/91
 DATE EXTRACTED: 10/29/91
 DATE ANALYZED: 10/30/91
 DATE REPORTED: 11/14/91
 PAGE: Three

Sample Type: Water

Method and Constituent:	Units	DLT-1		DLT-3		DLT-4	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
Standard Method 5520F Hydrocarbons:							
Oil and Grease	ug/l	2,800	1,000	ND	1,000	ND	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: 7.3

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

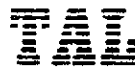


LOG NUMBER: 1449
DATE SAMPLED: 10/24/91
DATE RECEIVED: 10/24/91
DATE ANALYZED: 10/30/91 and 10/31/91
DATE REPORTED: 11/14/91
PAGE: Four

Sample Type: Water

Method and Constituent	Units	DLT-1		DLT-2		DLT-3	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8010:							
Benzyl Chloride	ug/l	ND	0.89	ND	0.89	ND	0.89
Bis (2-Chloroethoxy) Methane	ug/l	ND	0.89	ND	0.89	ND	0.89
Bis (2-Chloroisopropyl) Ether	ug/l	ND	0.89	ND	0.89	ND	0.89
Bromobenzene	ug/l	ND	0.89	ND	0.89	ND	0.89
Bromodichloromethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Bromoform	ug/l	ND	0.89	ND	0.89	ND	0.89
Bromomethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Carbon Tetrachloride	ug/l	ND	0.89	ND	0.89	ND	0.89
Chloracetaldehyde	ug/l	ND	0.89	ND	0.89	ND	0.89
Chloral	ug/l	ND	0.89	ND	0.89	ND	0.89
Chlorobenzene	ug/l	ND	0.89	ND	0.89	ND	0.89
Chloroethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Chloroform	ug/l	ND	0.89	ND	0.89	ND	0.89
1-Chlorohexane	ug/l	ND	0.89	ND	0.89	ND	0.89
2-Chloroethyl Vinyl Ether	ug/l	ND	0.89	ND	0.89	ND	0.89

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

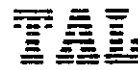


LOG NUMBER: 1449
DATE SAMPLED: 10/24/91
DATE RECEIVED: 10/24/91
DATE ANALYZED: 10/30/91 and 10/31/91
DATE REPORTED: 11/14/91
PAGE: Five

Sample Type: Water

Table with 8 columns: Method and Constituent, Units, DLT-1 Concentration, DLT-1 Reporting Limit, DLT-2 Concentration, DLT-2 Reporting Limit, DLT-3 Concentration, DLT-3 Reporting Limit. Rows include various chemical compounds like Chloromethane, Chloromethyl Methyl Ether, etc.

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

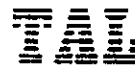


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 DATE ANALYZED: 10/30/91 and 10/31/91
 DATE REPORTED: 11/14/91
 PAGE: Six

Sample Type: Water

Method and Constituent	Units	DLT-1		DLT-2		DLT-3	
		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	0.89	ND	0.89	ND	0.89
Tetrachloroethylene	ug/l	ND	0.89	ND	0.89	ND	0.89
1,1,1-Trichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1,2-Trichloroethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Trichloroethylene	ug/l	2.0	0.50	79	0.50	270	0.50
Trichlorofluoro- methane	ug/l	ND	0.89	ND	0.89	ND	0.89
Trichloropropane	ug/l	ND	0.89	ND	0.89	ND	0.89
Vinyl Chloride	ug/l	ND	0.73	51	0.73	ND	0.73

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

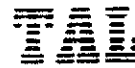


LOG NUMBER: 1449
DATE SAMPLED: 10/24/91
DATE RECEIVED: 10/24/91
DATE ANALYZED: 10/30/91 and 10/31/91
DATE REPORTED: 11/14/91
PAGE: Seven

Sample Type: Water

Method and Constituent	Units	DLT-4		DLT-5		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8010:							
Benzyl Chloride	ug/l	ND	0.89	ND	0.89	ND	0.89
Bis (2-Chloroethoxy) Methane	ug/l	ND	0.89	ND	0.89	ND	0.89
Bis (2-Chloroisopropyl) Ether	ug/l	ND	0.89	ND	0.89	ND	0.89
Bromobenzene	ug/l	ND	0.89	ND	0.89	ND	0.89
Bromodichloromethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Bromoform	ug/l	ND	0.89	ND	0.89	ND	0.89
Bromomethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Carbon Tetrachloride	ug/l	ND	0.89	ND	0.89	ND	0.89
Chloroacetaldehyde	ug/l	ND	0.89	ND	0.89	ND	0.89
Chloral	ug/l	ND	0.89	ND	0.89	ND	0.89
Chlorobenzene	ug/l	ND	0.89	ND	0.89	ND	0.89
Chloroethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Chloroform	ug/l	ND	0.89	ND	0.89	ND	0.89
1-Chlorohexane	ug/l	ND	0.89	ND	0.89	ND	0.89
2-Chloroethyl Vinyl Ether	ug/l	ND	0.89	ND	0.89	ND	0.89

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



LOG NUMBER: 1449
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 DATE ANALYZED: 10/30/91 and 10/31/91
 DATE REPORTED: 11/14/91
 PAGE: Eight

Sample Type: Water

Method and Constituent	Units	DLT-4		DLT-5		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8010 (Continued):							
Chloromethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Chloromethyl Methyl Ether	ug/l	ND	0.89	ND	0.89	ND	0.89
Chlorotoluene	ug/l	ND	0.89	ND	0.89	ND	0.89
Dibromochloromethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Dibromomethane	ug/l	ND	0.89	ND	0.89	ND	0.89
1,2-Dichlorobenzene	ug/l	ND	0.89	ND	0.89	ND	0.89
1,3-Dichlorobenzene	ug/l	ND	0.89	ND	0.89	ND	0.89
1,4-Dichlorobenzene	ug/l	ND	0.89	ND	0.89	ND	0.89
Dichlorodifluoromethane	ug/l	ND	0.89	ND	0.89	ND	0.89
1,1-Dichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,2-Dichloroethane	ug/l	ND	0.89	ND	0.89	ND	0.89
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	1.2	ND	1.2	ND	1.2
1,2-Dichloropropane	ug/l	ND	0.89	ND	0.89	ND	0.89
1,3-Dichloropropylene	ug/l	ND	0.89	ND	0.89	ND	0.89
1,1,2,2-Tetrachloro- ethane	ug/l	ND	0.89	ND	0.89	ND	0.89

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



LOG NUMBER: 1449
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DATE ANALYZED: 10/30/91 and 10/31/91
DATE REPORTED: 11/14/91
PAGE: Nine

Sample Type: Water

Method and Constituent	Units	DLT-4		DLT-5		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	0.89	ND	0.89	ND	0.89
Tetrachloroethylene	ug/l	ND	0.89	ND	0.89	ND	0.89
1,1,1-Trichloroethane	ug/l	ND	0.50	ND	0.50	ND	0.50
1,1,2-Trichloroethane	ug/l	ND	0.89	ND	0.89	ND	0.89
Trichloroethylene	ug/l	27	0.50	29	0.50	ND	0.50
Trichlorofluoro- methane	ug/l	ND	0.89	ND	0.89	ND	0.89
Trichloropropane	ug/l	ND	0.89	ND	0.89	ND	0.89
Vinyl Chloride	ug/l	ND	0.73	ND	0.73	ND	0.73

QC Summary:

% Recovery: 110
% RPD: 10

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



LOG NUMBER: 1449
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 DATE EXTRACTED: 11/01/91
 DATE ANALYZED: 11/05/91
 DATE REPORTED: 11/14/91
 PAGE: Ten

Sample Type: Water

Method and Constituent:	Units	DLT-2		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7520:							
Nickel	ug/l	ND	300	ND	300	96*	**

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

- * The Recovery is for the Laboratory Control Sample, due to interference in the spiked sample.
- ** The RPD is not reportable since the sample prepared in duplicate was not detectable.




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 DATE EXTRACTED: 11/01/91
 DATE ANALYZED: 11/05/91
 DATE REPORTED: 11/14/91
 PAGE: Eleven

Sample Type: Water

Method and Constituent:	Units	DLT-1		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7950:							
Zinc	ug/l	ND	50	ND	50	76	1.9

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


 Louis W. DuPuis
 Quality Assurance/Quality Control Manager



CHAIN OF CUSTODY

1449

718 E. Evelyn Ave.
Sunnyvale, CA 94086
(408)736-1380

project # 00300 -1091	project name ZATKAN	project site address 900 DOLITTLE DR. SAN LEANDRO, CA	sample type gas bag - A water - W soil - S	analysis Pb Cu Zn Mn Ni V Cd Co Cr Fe Mg K Na Ca Mg P S Cl F NO ₃ NH ₄ H ₂ O H ₂ S H ₂ SO ₄ H ₂ PO ₄ H ₂ CO ₃ H ₂ SiO ₃ H ₂ SiO ₄ H ₂ SiO ₆ H ₂ SiO ₈ H ₂ SiO ₁₀ H ₂ SiO ₁₂ H ₂ SiO ₁₄ H ₂ SiO ₁₆ H ₂ SiO ₁₈ H ₂ SiO ₂₀ H ₂ SiO ₂₂ H ₂ SiO ₂₄ H ₂ SiO ₂₆ H ₂ SiO ₂₈ H ₂ SiO ₃₀ H ₂ SiO ₃₂ H ₂ SiO ₃₄ H ₂ SiO ₃₆ H ₂ SiO ₃₈ H ₂ SiO ₄₀ H ₂ SiO ₄₂ H ₂ SiO ₄₄ H ₂ SiO ₄₆ H ₂ SiO ₄₈ H ₂ SiO ₅₀ H ₂ SiO ₅₂ H ₂ SiO ₅₄ H ₂ SiO ₅₆ H ₂ SiO ₅₈ H ₂ SiO ₆₀ H ₂ SiO ₆₂ H ₂ SiO ₆₄ H ₂ SiO ₆₆ H ₂ SiO ₆₈ H ₂ SiO ₇₀ H ₂ SiO ₇₂ H ₂ SiO ₇₄ H ₂ SiO ₇₆ H ₂ SiO ₇₈ H ₂ SiO ₈₀ H ₂ SiO ₈₂ H ₂ SiO ₈₄ H ₂ SiO ₈₆ H ₂ SiO ₈₈ H ₂ SiO ₉₀ H ₂ SiO ₉₂ H ₂ SiO ₉₄ H ₂ SiO ₉₆ H ₂ SiO ₉₈ H ₂ SiO ₁₀₀
sampler B.D. McEVARS				Normal TAT per Kip Porter 10/29 5:20 JK

date	time	grab	comp	sample ID number						remarks
10-24-91		X		4912	DLT-2	X	X	X	X	2-40ml HCL, 2-40ml un., 1-50ml HNO ₃
		X		4913	DLT-3	X	X	X		1L HCL, 1L un., 2-40ml un.
		X		4914	DLT-5			X		2-40ml un.
		X		4915	DLT-4	X		X		1L HCL, 2-40ml un.
10-24-91		X		4916	DLT-1	X	X	X	X	1L HCL, 1L un., 2-40ml un., 1-50ml HNO ₃
										reg-TAT walk-in water on ice JK

relinquished by: JK (BRUCE McEVARS) 10-24-91 5:50	received by: TAL 10/24/91 3:50 pm	relinquished by:	received by:	page _____
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SCHEDULE OF RESULTS OF TEST WELL SAMPLES
 900 DOOLITTLE DRIVE, SAN LEANDRO, CA. 94577

All tests taken in PPB (Parts per billion)

SUBSTANCE SOUGHT	5/17/90	8/31/90	12/4/90	3/18/91	7/11/91	10/24/91
TEST WELL #						
DLT 1						
TOG	8000.00	*	*	*	*	2800.00
TPH (D)	*	*	*	*	4900.00	*
TCE	48.00	27.00	3.30	3.40	*	2.00
ZN	80.00	*	*	*	*	*
DICHLOROMETHANE @	*	*	*	*	*	*
DLT 2						
TPH (G)	14.00	28.00	*	*	*	69.00
BTX & E	6.60	17.00	22.00	3.30	6.50	55.00
TCE	560.00	9.10	20.00	16.00	20.00	79.00
1,1-DICHLOROETHANE	*	*	6.80	1.70	*	21.00
1,1-DICHLOROETHYLENE	*	*	0.45	*	*	7.30
VINYL CHLORIDE	*	*	40.00	2.30	21.00	51.00
DLT 3						
TOG	*	*	*	*	*	*
TCE	3900.00	190.00	230.00	300.00	320.00	270.00
TPH (D)	*	110.00	*	*	180.00	*
DICHLOROMETHANE @	*	*	*	2.90	*	*
DLT 4						
TCE	450.00	17.00	15.00	47.00	17.00	27.00
TOG	*	*	*	*	*	*
DLT 5						
TCE	50.00	3.10	7.50	27.00	9.40	29.00
DICHLOROMETHANE @	*	*	*	2.70	*	*

* Where astericks appear, readings are below those concentration limits available to the laboratory.
 @ Dichloromethane AKA Methylene Chloride

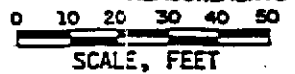
S. R. R.R. TRACKS



EXPLANATION

- S-2(W.S.) GRAB SAMPLE
- CS1-2
- SB 1 EXPLORATORY SOIL BORING
- DLT 1 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

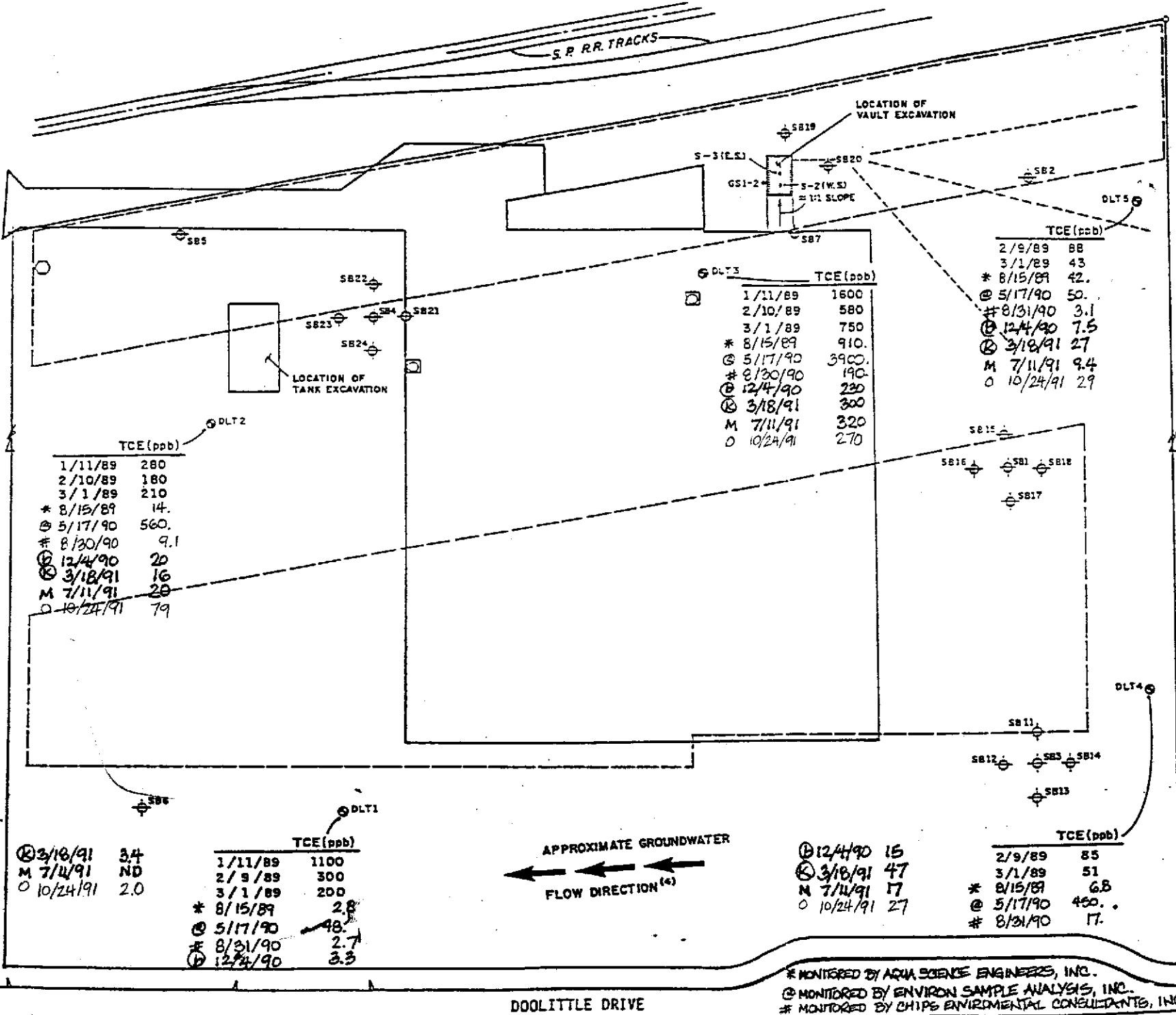
- NOTES: (1) BASE MAP: PROPERTY AT 900 DOOLITTLE DRIVE, SAN LEANDRO, CALIFORNIA; BATES AND BAILY LAND SURVEYORS, AUGUST 1987, 1"=20'
- (2) ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
- (3) LEACH LINE LOCATION PROVIDED BY CF and B BUILDERS
- (4) BASED ON WATER LEVEL MEASUREMENTS OF 13 MARCH 1989



APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Material Consultants

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

PROJECT NO. A881388 FIGURE 7



DLT 3 TCE (ppb)

1/11/89	1600
2/10/89	580
3/1/89	750
* 8/15/89	910.
⊙ 5/17/90	3900.
* 8/30/90	190.
⊙ 12/4/90	230
⊙ 3/18/91	300
M 7/11/91	320
○ 10/24/91	270

TCE (ppb)

2/9/89	88
3/1/89	43
* 8/15/89	42.
⊙ 5/17/90	50.
* 8/31/90	3.1
⊙ 12/4/90	7.5
⊙ 3/18/91	27
M 7/11/91	9.4
○ 10/24/91	29

DLT 2 TCE (ppb)

1/11/89	280
2/10/89	180
3/1/89	210
* 8/15/89	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	79

⊙ 3/18/91	3.4
M 7/11/91	ND
○ 10/24/91	2.0

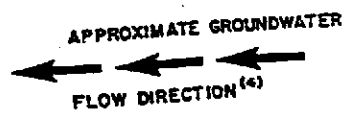
DLT 1 TCE (ppb)

1/11/89	1100
2/9/89	300
3/1/89	200
* 8/15/89	28
⊙ 5/17/90	48.
* 8/31/90	2.7
⊙ 12/4/90	3.3

⊙ 12/4/90	15
⊙ 3/18/91	47
M 7/11/91	17
○ 10/24/91	27

TCE (ppb)

2/9/89	85
3/1/89	51
* 8/15/89	68
⊙ 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.

DOOLITTLE DRIVE