aqua science engineers inc.

91 DEC 23 PM 1:28

December 20, 1991

Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Rm 200
Oakland, CA 94621
Attn: Ms. Pam Evans

Re: Fourth Quarter Well Sampling,
Trident Trucking, 23724 Saklan Rd., Hayward, CA.

Ms. Evans,

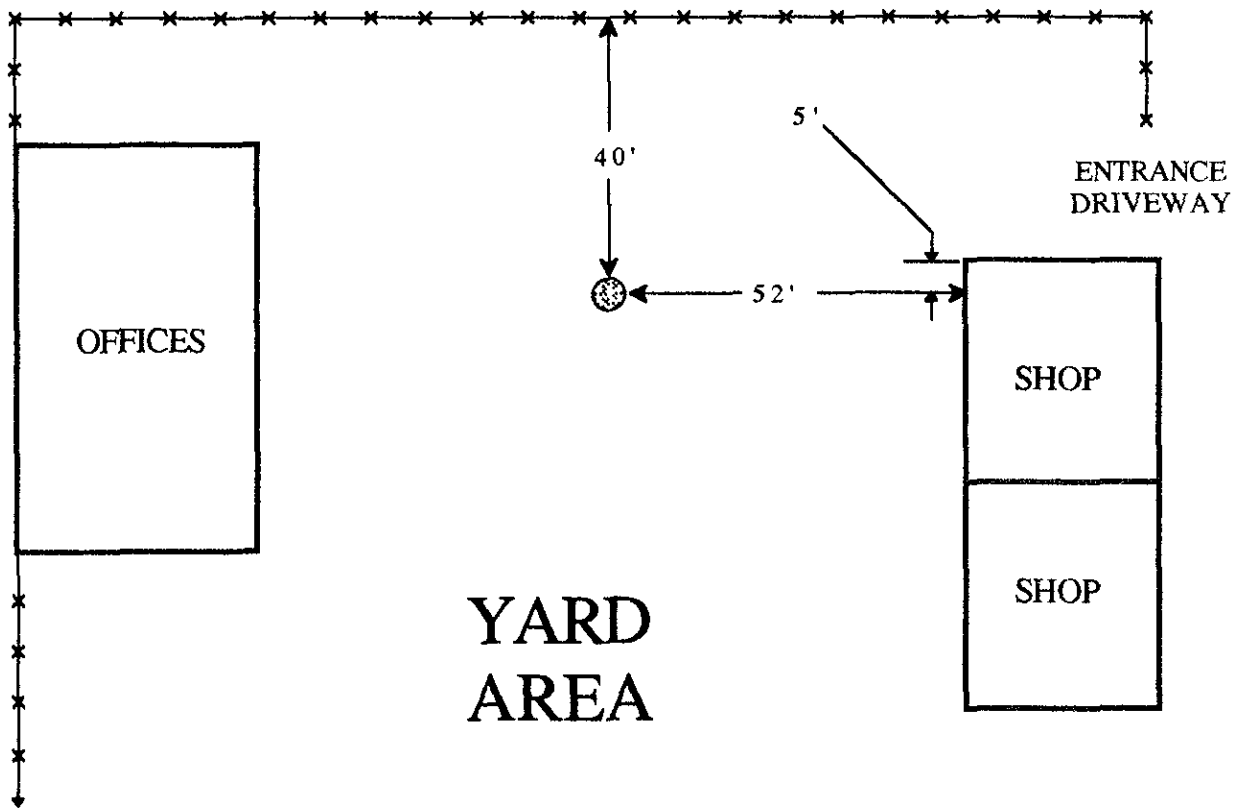
Enclosed please find a groundwater well sampling record analytical results of water samples taken from the monitoring well at the Trident Trucking facility, Hayward, CA. The enclosed site plan shows the location of the monitoring well in relation to site buildings and property lines. This sample routine represents the fourth quarter sampling round of a one year program initiated in August of 1990.

The results of four consecutive sampling routines have yielded non-detectable concentrations of petroleum hydrocarbons and fractions in shallow groundwater at the well location. No further sampling routines are planned. Trident Trucking will be procuring the services of a qualified contractor to properly close the well. Notification of the date of this procedure will be advanced to your office prior to execution of the work.

If you have any questions regarding the enclosed information, please contact me at my offices.

Respectfully,
AQUA SCIENCE ENGINEERS, INC.

David C. Prull
Project Manager
encl. (5)
cc. Bob Senna, Trident Trucking encl. (5)



AQUA SCIENCE ENGINEERS, INC.

Monitoring Well Location
at
Trident Truck Lines

23724 Saklan Road Hayward, CA 94545

figure one

N

= WELL LOCATION

= PROPERTY FENCELINE

TABULATION OF GROUNDWATER MONITORING DATA
SELECT COMPOUNDS, PARTIAL LIST
(PARTS PER BILLION)

SAMPLE DATE	TPH GAS	TPH DIESEL	BENZENE	TOLUENE	XYLENES	ETHYL-BENZENE
08/08/90	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
09/07/90	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
12/12/90	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
12/18/91	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

N.D. = Nondetectable at the analytical test detection limit.

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

December 19, 1991 ChromaLab File No.: 1291139

AQUA SCIENCE ENGINEERS, INC.

Attn: Steve DeHope

RE: One water sample for Gasoline/BTEX analysis

Project Name: TRIDENT TRUCKING
Date Sampled: Dec. 18, 1991 Date Submitted: Dec. 18, 1991
Date Extracted: Dec. 18, 1991 Date Analyzed: Dec. 19, 1991

RESULTS:

Sample I.D.	Gasoline (µg/L)	Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
GWW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE REC.	91.3%	89.6%	102.1%	108.3%	105.7%	99.3%
DET. LIMIT	50	50	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/ 8015	3510/ 8015	602	602	602	602

ChromaLab, Inc.

Charles Woolley
Analytical Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

aqua science engineers inc.

Aqua Science Engineers Inc.

PO Box 535, San Ramon, CA 94583 • 415-820-9391

CHROMALAB FILE # 12911

ORDER # 4538

DATE 12-17

PROJ. Trident trucking

COMPANY ASE

ADDRESS

SAMPLERS (SIGNATURE) (PHONE NO.) (510) 685-6700

ANALYSIS REQUEST

SAMPLE ID.	DATE	TIME	MATRIX	LAB ID.	TPH - Gasoline (EPA 5030)	TPH - Gasoline (5030) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510, 3550)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270)	TOTAL OIL & GREASE (EPA 5030E)	PESTICIDES/PCB (EPA 608, 8080)	PHENOLS (EPA 604, 8040)			METALS: Cd, Cr, Pb, Zn	CAM METALS (18) w/Cr VI	PRIORITY POLLUTANT METALS (13)						NUMBER OF CONTAINERS
TWW-1D	12-17	3:00	W				X																		1
TWW-1-G	12-17	3:00	W			X																			2

PROJECT INFORMATION

PROJECT Trident trucking

PO NO

SHIPPING ID NO

AFE

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	3
CHAIN OF CUSTODY SEALS	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	
LAB NO.	

SPECIAL INSTRUCTIONS/COMMENTS:

24 hr Turn Around

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
Steve DeHop 8:30	Craig Hertz 9:00	
(Signature) (Time)	(Signature) (Time)	(Signature) (Time)
Steve DeHop 12-18	Craig Hertz 12-18	
(Printed Name) (Date)	(Printed Name) (Date)	(Printed Name) (Date)
ASE	ASE	
(Company)	(Company)	(Company)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3.**
Craig Hertz 8:30	Gary Cook 8:00	→
(Signature) (Time)	(Signature) (Time)	(Signature) (Time)
Craig Hertz 12/18	Gary Cook 12-18-91	
(Printed Name) (Date)	(Printed Name) (Date)	(Printed Name) (DATE)
ASE	Chroma Lab	
(Company)	(Company)	(LAB)

WELL SAMPLING FIELD LOG

Project:

ASE
environmental
1041 Shary Circle
Concord, CA 94518
(800) 678-9391

Project Name: TRIDENT TRUCKING
Project Address: 23724 SAKLAN ROAD, HAYWARD 94545
Job # 2462 Date of sampling: 12-17-91 Completed by: S. DEHOPE
Well Number / Designation: #1
Top of casing elevation: -3 FROM GRADE
Total depth of well casing: 24' 2" Well diameter: 4"
Depth to water (before sampling): 15'
Depth of floating product if any: 0"
Depth of well casing in water: 8' 10"
Req'd volume of groundwater to be purged before sampling: 30 GALLONS
Approximate volume of groundwater purged: 30 GALLONS
Type of seal at grade: CEMENT
Type of cap on the casing: LOCKING WELL CAP
Is the seal water tight? YES Is the cap water tight? YES
Number of samples (containers) collected 3
Did 40 ml VOA vials have headspace: NO
Were sample containers chilled after sampling & for delivery ? YES
Are Chain of Custody documents accompanying the samples: YES
Sample temperature: N/A
Sample pH: N/A Test method: N/A
Physical description of water during initial bailing period:
CLOUDY LIGHT BROWN
Physical description of water sample: CLOUDY LIGHT BROWN
Type of analysis requested: TPH-GASOLINE
TPH-DIESEL
BTEX

Type of bailer/sampling equipment used: PVC 3"x3' BAILER

Equipment cleaning procedures: TSP CLEANING

Disposition of bailed water volume:
STORED IN 55 GALLON DRUM PENDING ANALYSIS

TABULATION OF GROUNDWATER MONITORING DATA
SELECT COMPOUNDS, PARTIAL LIST
(PARTS PER BILLION)

SAMPLE DATE	TPH GAS	TPH DIESEL	BENZENE	TOLUENE	XYLENES	ETHYL-BENZENE
08/08/90	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
09/07/90	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
12/12/90	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
12/18/91	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

N.D. = Nondetectable at the analytical test detection limit.

3.2.2. Groundwater Sampling Methods and Procedures

Groundwater sample MW-1 was collected on July 6, 1990 from Monitor Well MW-1 (see Appendix F - "Groundwater Sample Field Log"). Prior to collecting the sample, the static water level was recorded and then the well was purged with a submersible pump of at least four (4) bore volumes. Prior to sampling, the water level was allowed to rise to static.

Sample MW-1 was collected with a triple-rinsed clean PVC bailer after the water level had risen to the static water level of 14.0-feet below the top of the casing. The well elevation or location have not been surveyed.

Water sample MW-1 was collected in two (2) clear glass vials with teflon septums and one (1) amber liter bottle with a screw cap. Sample containers were provided by the laboratory performing the analysis. No headspace was present in the vials once they were capped, which was checked by inverting the vials and looking for bubbles. The vials and bottle were then placed in an ice chest containing 'blu-ice' for delivery to Med-Tox Associates laboratory, DHS Certificate Number 199.

4. LABORATORY TESTING

Chain-of-Custody procedures maintained sample integrity during delivery of soil and groundwater samples to the laboratory. Chain-of-Custody and Request For Analysis Report Numbers 90217390 and 9021790 are included as Appendix D. Laboratory reports are included in Appendix C - "Chemical Laboratory Reports".

4.1. SOIL SAMPLES

4.1.1. Methods of Analysis

Soil samples were analyzed according to analytical procedures outlined in the "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, Tri-Regional Recommendations" by the North Coast, San Francisco Bay, and Central Valley California Regional Water Quality Control Boards (November 9, 1989 edition) as supported by the Leaking Underground Fuel Tank ("LUFT") Field Manual by the state Water Resources Control Board

Gasoline (unleaded)
TPHg - Total Petroleum Hydrocarbons as gasoline including total aliphatic and aromatic hydrocarbons with low boiling points.
Reported also as volatile or purgeable hydrocarbons.
Sample prepared using EPA Method 5030 - Purge & Trap.

Sample analyzed using a GC-FID (gas chromatograph with a flame ionization detector) according to DHS-LUFT recommended procedures which are similar to EPA Method 8020 (Aromatic Volatile Organics) or EPA Method 8015 (Purgeable Non-Halogenated Volatile Organics). Sample may also be analyzed according to EPA Method 8240 (Volatile Organics) using a GC-MS (gas chromatograph/mass spectrometer).
Chromatograph compared to type chromatograph for gasoline.
Required practical detection limit - 1.0 parts per million (ppm).

Diesel

TPHd - Total Petroleum Hydrocarbons as diesel including total aliphatic and aromatic hydrocarbons with high boiling points.
Reported also as semivolatile or extractable hydrocarbons.
Sample prepared using EPA Method 3550 - Sonification.
Sample analyzed using a GC-FID (gas chromatograph with a flame ionization detector) according to DHS-LUFT recommended procedures which are similar to EPA Method 8020 (Aromatic Volatile Organics) or EPA Method 8015 (Purgeable Non-Halogenated Volatile Organics). Sample may also be analyzed according to EPA Method 8240 (Volatile Organics) using a GC-MS (gas chromatograph/mass spectrometer) or EPA Method 418.1 using an infrared spectropy technique.
Chromatograph compared to type chromatograph for diesel.
Required practical detection limit - 1.0 ppm.

BTXE

Benzene, toluene, total xylenes and ethylbenzene (highly mobile, typical gasoline compounds), with 6, 7, 8, and 9 carbons respectively.
Sample prepared using EPA Method 5030 - Purge & Trap.
Sample analyzed using a GC-FID (gas chromatograph with a flame ionization detector) according to EPA Method 8020 (Aromatic Volatile Organics) or EPA Method 8015 (Purgeable Non-Halogenated Volatile Organics). Sample may also be analyzed according to EPA Method 8240 (Volatile Organics) using a GC-MS (gas chromatograph/mass spectrometer).
Required practical detection limit - 5.0 parts per billion (ppb).

4.1.2. Summary of Results

TABLE 2 - SUMMARY OF SOIL ANALYSES

Sample No	Location	Depth (feet)	Constituent	Unit mg/kg=ppm µg/kg=ppb	Result ND=Not Detected	Detection Limit
EX-1	5K diesel west	9-10	TPHd	mg/kg	ND	10
EX-2	5K diesel east	9-10	TPHd	mg/kg	20	10
EX-3	10K diesel south	11-12	TPHd	mg/kg	ND	10
EX-4	dispenser north (during excavation)	9-10	TPHd TPHg B T X E	mg/kg mg/kg µg/kg µg/kg µg/kg µg/kg	50 ND ND ND ND ND	10 0.3 5 5 5 20
EX-5	1K gas north	9-10	TPHg B T X E	mg/kg µg/kg µg/kg µg/kg µg/kg	ND ND ND ND ND	0.2 1 1 1 3
EX-6	dispenser north (after excavation)	6-7	TPHd TPHg B T X E	mg/kg mg/kg µg/kg µg/kg µg/kg µg/kg	ND ND ND ND ND ND	10 0.2 1 1 1 3
S-1	MW-1	9-9.5	TPHd	mg/kg	ND	10
S-2	MW-1	15.5-16	TPHd	mg/kg	ND	10

None of the TPH results exceed the action level of 100 ppm set by the Agency. BTXE was not detected.

4.2. GROUNDWATER SAMPLE

4.2.1. Methods of Analysis

Groundwater samples were analyzed according to analytical procedures outlined in the "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, Tri-Regional Recommendations" by the North Coast, San Francisco Bay, and Central Valley California Regional Water Quality Control Boards (November 9, 1989 edition) as supported by the Leaking Underground Fuel Tank ("LUFT") Field Manual by the state Water Resources Control Board

Gasoline (unleaded)
TPHg - Total Petroleum Hydrocarbons as gasoline including total aliphatic and aromatic hydrocarbons with low boiling points.
Reported also as volatile or purgeable hydrocarbons.
Sample prepared using EPA Method 5030 - Purge & Trap.

Sample analyzed using a GC-MS (gas chromatograph/mass spectrometer) according to DHS-LUFT recommended procedures which are similar to EPA Method 624 - Purgables or GC-PID (gas chromatograph with a photoionization detector) according to EPA Method 602 - Purgable Aromatics.
Chromatograph compared to type chromatograph for gasoline.
Required practical detection limit - 50.0 parts per billion (ppb).

Diesel

TPHd - Total Petroleum Hydrocarbons as diesel including total aliphatic and aromatic hydrocarbons with high boiling points.
Reported also as semivolatile or extractable hydrocarbons.
Sample prepared using EPA Method 3510 - Sonification.
Sample analyzed using a GC-MS (gas chromatograph/mass spectrometer) according to DHS-LUFT recommended procedures which are similar to EPA Method 624 - Purgables or GC-PID (gas chromatograph with a photoionization detector) according to EPA Method 602 - Purgable Aromatics.
Chromatograph compared to type chromatograph for diesel.
Required practical detection limit - 50.0 ppb

BTXE

Benzene, toluene, total xylenes and ethylbenzene (highly mobile, typical gasoline compounds), with 6, 7, 8, and 9 carbons respectively.
Sample prepared using EPA Method 5030 - Purge & Trap.
Sample analyzed using a GC-MS (gas chromatograph/mass spectrometer) according to EPA Method 624 - Purgables or GC-PID (gas chromatograph with a photoionization detector) according to EPA Method 602 - Purgable Aromatics.
Required practical detection limit - 0.5 parts per billion (ppb).

4.2.2. Summary of Results

TABLE 3 - SUMMARY OF GROUNDWATER ANALYSES

July 6, 1990

Sample No.	Location	Static Level	Constituent	Unit mg/L=ppm µg/L=ppb	Result ND=Not Detected	Detection Limit
MW-1	Monitor Well MW-1	14.0	TPHd TPHg B T X E	mg/L mg/L µg/L µg/L µg/L µg/L	ND **0.06** ND **2** **6** **0.9**	0.05 0.05 0.3 0.3 0.3 1
Trip Blank	Monitor Well MW-1	na	TPHd TPHg B T X E	mg/L mg/L µg/L µg/L µg/L µg/L	ND ND ND ND ND ND	10 0.2 1 1 1 3

TPHg exceeds the action level of 0.05 ppm set by the Agency.

Trace Analysis Laboratory, Inc.
3423 Investment Boulevard, #8 • Hayward, California 94545 *(415) 783-6960*

TAL

LOG NO.: 8720
DATE SAMPLED: 5/24/90
DATE RECEIVED: 5/24/90
DATE EXTRACTED: 5/25/90
DATE ANALYZED: 5/26/90
DATE REPORTED: 5/30/90

CUSTOMER: Trident Trucking

REQUESTER: Bob Senna

PROJECT: Trident Trucking, 23724 Saklan, Hayward

Sample Type: Soil

Method and Constituent	Units	No.1 Concentration	No.1 Detection Limit	No.2 Concentration	No.2 Detection Limit	No.3 Concentration	No.3 Detection Limit
DHS Method:							
Total Petroleum Hydrocarbons as Diesel	ug/kg	ppb				< 3,000	3,000
Total Petroleum Hydrocarbons as Gasoline	ug/kg	16,000	4,000	< 700	700		
Modified EPA Method 8020:							
Benzene	ug/kg	< 400	400	< 70	70	< 70	70
Toluene	ug/kg	< 2,000	2,000	< 400	400	< 400	400
Xylenes	ug/kg	< 2,000	2,000	< 300	300	< 300	300
Ethylbenzene	ug/kg	< 600	600	< 100	100	< 100	100

Samples # 1-6 + 13 are native soil from 0 to 1-2 ft bgs
Samples are stockpile grab samples

LOG NO.: 8720
DATE SAMPLED: 5/24/90
DATE RECEIVED: 5/24/90
DATE EXTRACTED: 5/25/90
DATE ANALYZED: 5/26/90
DATE REPORTED: 5/30/90
PAGE: Two

Sample Type: Soil

Method and Constituent	Units	No.4 Concentration	No.4 Detection Limit	No.5 Concentration	No.5 Detection Limit	No.6 Concentration	No.6 Detection Limit
DHS Method:							
Total Petroleum Hydrocarbons as Diesel	ug/kg	< 3,000	3,000	< 3,000	3,000	< 3,000	3,000
Total Petroleum Hydrocarbons as Gasoline	ug/kg						
Modified EPA Method 8020:							
Benzene	ug/kg	< 70	70	< 70	70	< 70	70
Toluene	ug/kg	< 400	400	< 400	400	< 400	400
Xylenes	ug/kg	< 300	300	< 300	300	< 300	300
Ethylbenzene	ug/kg	< 100	100	< 100	100	< 100	100

Sample Type: Soil

Method and Constituent	Units	Composite of No.7, No.8, No.9 Concentration	Composite of No.7, No.8, No.9 Detection Limit	Composite of No.10,No.11,No.12 Concentration	Composite of No.10,No.11,No.12 Detection Limit	No.13 Concentration	No.13 Detection Limit
DHS Method:							
Total Petroleum Hydrocarbons as Diesel	ug/kg	24,000	3,000	250,000	3,000		
Total Petroleum Hydrocarbons as Gasoline	ug/kg					< 700	700
Modified EPA Method 8020:							
Benzene	ug/kg	< 70	70	< 70	70	< 70	70
Toluene	ug/kg	< 400	400	< 400	400	< 400	400
Xylenes	ug/kg	< 300	300	< 300	300	< 300	300
Ethylbenzene	ug/kg	< 100	100	< 100	100	< 100	100

Charles Morrow for
Louis W. DuPuis
Quality Assurance/Quality Control Manager

Trace Analysis Laboratory, Inc.
3423 Investment Boulevard, #8 • Hayward, California 94545 *(415) 783-6960*

5/31/90
check received

CHAIN OF CUSTODY RECORD

No. 2364
amount = $1,968.11

8720
3 -day TAT

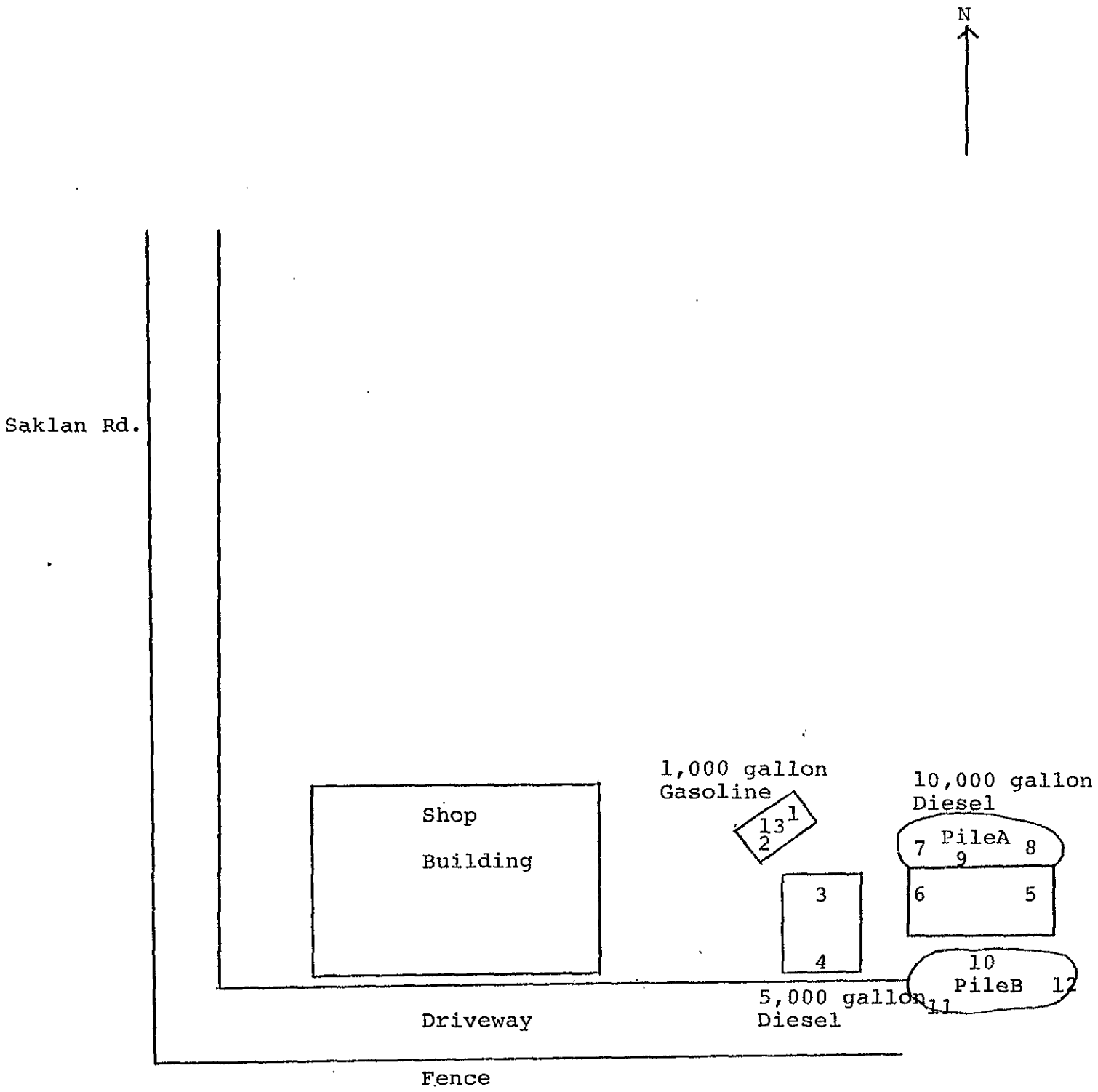
PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	Diesel	Gas/BTXE	
	Trident Trucking 23724 Saklan, Hayward				

SAMPLERS: (Signature)
Louis D. Pais

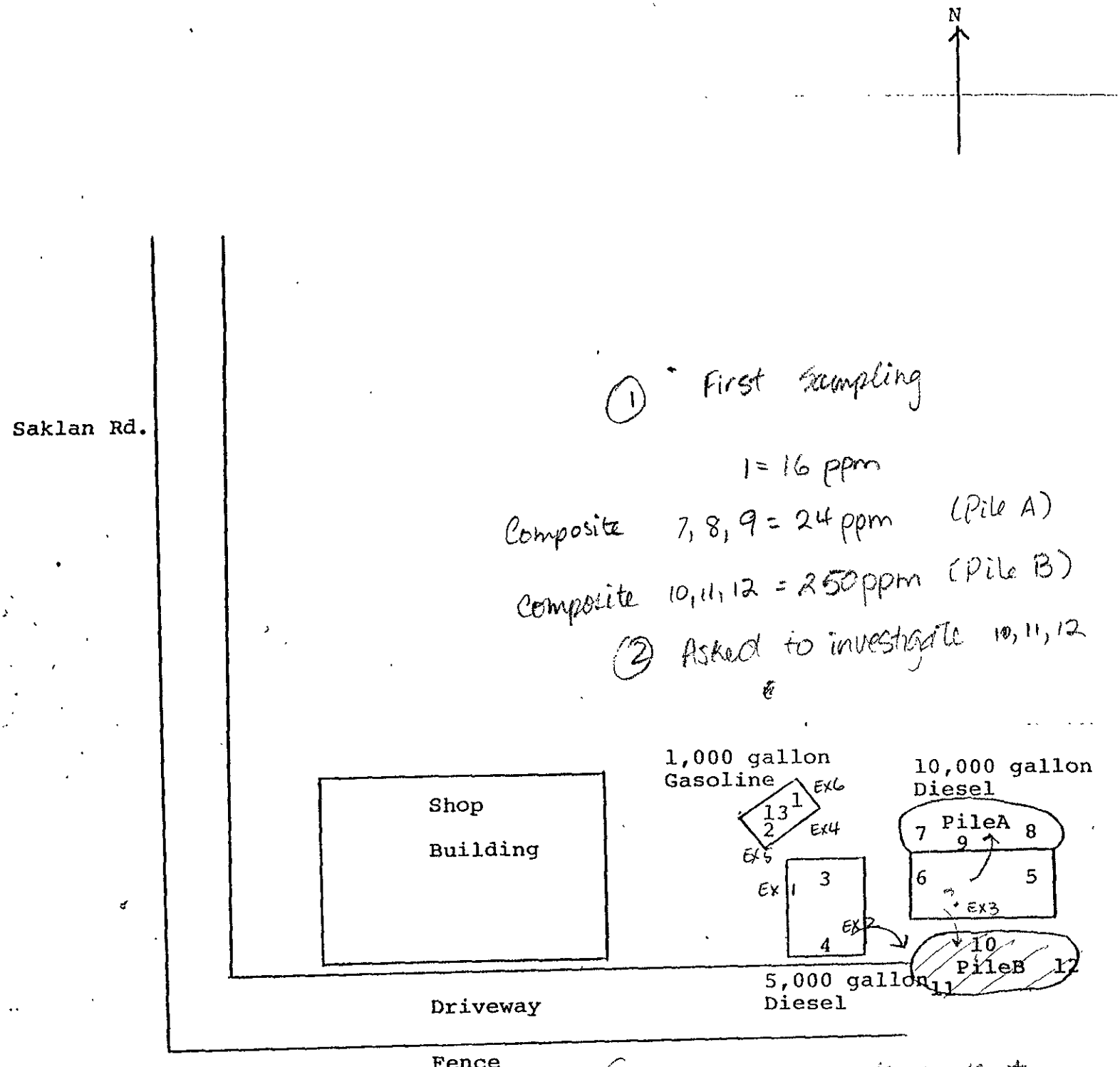
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Diesel	Gas/BTXE	
No. 1	5/24	4:50 pm		X	gas tank	1-PT		X	8' deep
No. 2	"	4:54 pm		X	"	"		X	8' deep
No. 3	"	4:58 pm		X	5000 gal diesel	"	X	X	10' deep
No. 4	"	5:02 pm		X	"	"	X	X	11' deep
No. 5	"	5:07 pm		X	10 000 gal diesel	"	X	X	10' deep
No. 6	"	5:20 pm		X	"	"	X	X	10' deep
No. 7	"	5:30 pm		X	File A	"			
No. 8	"	"		X	"	"	X	X	composite
No. 9	"	"		X	"	"			
No. 10	"	"		X	File B	"			
No. 11	"	"		X	"	"	X	X	composite
No. 12	"	"		X	"	"			
No. 13	"	5:50 pm		X	gas Tank - center	"		X	12' deep
	1990								

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
				B	

Trident Trucking
23724 Saklan Road
Hayward, CA



Trident Trucking
23724 Saklan Road
Hayward, CA



(1) First Sampling

1 = 16 ppm

Composite 7, 8, 9 = 24 ppm (Pile A)

Composite 10, 11, 12 = 250 ppm (Pile B)

(2) Asked to investigate 10, 11, 12

&

(3) Sampling by Kent = Kent

EX-1, EX-3 + EX-2 = ND

in area of Pile B

EX 4 = 50 ppm - No further digging

Excavation → Class II

Pam,
These are sample results from borings we did near the gas tank at Trident Trucking.

W-1-1, W-2-1 on third page are from waste oil tank in far corner of the yard. They have nothing to do w/ the gas tank borings.

Tim Loeb
Excel Tech, Inc.

Rec'd by HazMat on 5/29/91

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Exceltech	Client Project ID:	#6357, Venture, PO #16876	Sampled: Jan 29, 1990
41674 Christy Street	Matrix Descript:	Soil	Received: Jan 30, 1990
Fremont, CA 94538	Analysis Method:	EPA 3550/8015	Extracted: Feb 5, 1990
Attention: Tim Loeb	First Sample #:	001-3718	Analyzed: Feb 12, 1990
			Reported: Feb 13, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
001-3718	TC-1-2	N.D.
001-3719	W-1-1	N.D.
001-3720	W-2-1	1.0

Detection Limits:	**1.0**

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

MTague

Vickie Tague
Project Manager

SEQUOIA ANALYTICAL
680 Cheasapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Excaltech
41674 Christy Street
Fremont, CA 94538
Attention: Tim Loeb

Client Project ID: #9357, Venture, PO #16878
Matrix Descript: Water
Analysis Method: EPA 3510/8015
First Sample #: 001-3719 C

Sampled: Jan 29, 1990
Received: Jan 30, 1990
Extracted: Feb 5, 1990
Analyzed: Feb 12, 1990
Reported: Feb 13, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons µg/L (ppb)
0013719 C	TC-1	120

Detection Limits:	50.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Mickie Tague
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Excelteh	Client Project ID:	#9357, Venture, PO #16878	Sampled: Jan 29, 1990
41674 Christy Street	Matrix Descript:	Soil	Received: Jan 30, 1990
Fremont, CA 94538	Analysis Method:	EPA 5030/8015/8020	Analyzed: Feb 9, 1990
Attention: Tim Loeb	First Sample #:	001-3718	Reported: Feb 13, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
001-3718	TC-1-2	3.3	N.D.	N.D.	N.D.	N.D.
001-3719	W-1-1	3.2	N.D.	N.D.	N.D.	N.D.
001-3720	W-2-1	4.3	N.D.	N.D.	N.D.	N.D.
Detection Limits:		1.0	0.05	0.1	0.1	0.1

* to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
alytes reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL

Mr Tague

ikie Tague
oject Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Exceltech	Client Project ID:	#6357, Venture, PO #16678	Sampled: Jan 29, 1990
41674 Christy Street	Sample Descript.:	Water, TC-1	Received: Jan 30, 1990
Fremont, CA 94538	Analysis Method:	EPA 5030/ 8015/8020	Analyzed: Feb 6, 1990
Attention: Tim Loeb	Lab Number:	001-3719 A	Reported: Feb 13, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Low to Medium Boiling Point Hydrocarbons	30.0	N.D.
Benzene	0.3	N.D.
Toluene	0.3	N.D.
Ethyl Benzene	0.3	N.D.
Xylenes	0.6	N.D.

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Mikkie Tague
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Excaltech	Client Project ID:	#9357, Venture, PO #16676	Sampled: Jan 29, 1990
41674 Christy Street	Matrix Descript:	Soil	Received: Jan 30, 1990
Fremont, CA 94538	Analysis Method:	SM 503 D&E (Gravimetric)	Extracted: Feb 4, 1990
Attention: Tim Loeb	First Sample #:	001-3720	Analyzed: Feb 8, 1990
			Reported: Feb 13, 1990

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
001-3720	W-1-1	69
001-3721	W-2-1	440

Detection Limits:	20.0

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Exceltech	Client Project ID:	#9357, Venture, PO #16878	Sampled:	Jan 29, 1990
1674 Christy Street	Sample Descript:	Soil, W-1-1	Received:	Jan 29, 1990
Fremont, CA 94538	Analysis Method:	EPA 5030/8010	Analyzed:	Feb 6, 1990
Attention: Tim Loeb	Lab Number:	001-3720	Reported:	Feb 13, 1990

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25.0	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10.0	N.D.
1,3-Dichlorobenzene	10.0	N.D.
1,4-Dichlorobenzene	10.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
Total 1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Exceltech	Client Project ID:	#9357, Venture, PO #16875	Sampled:	Jan 29, 1990
41674 Christy Street	Sample Descript:	Soil, W-2-1	Received:	Jan 29, 1990
Fremont, CA 94538	Analysis Method:	EPA 5030/8010	Analyzed:	Feb 6, 1990
Attention: Tim Loeb	Lab Number:	001-3721	Reported:	Feb 13, 1990

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25.0	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10.0	N.D.
1,3-Dichlorobenzene	10.0	N.D.
1,4-Dichlorobenzene	10.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
Total 1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Exceltech	Client Project ID:	#9357, Venture, PO #16676	Sampled: Jan 29, 1990
41674 Christy Street	Matrix Descript:	Water	Received: Jan 30, 1990
Fremont, CA 94538	Analysis Method:	EPA 3510/8015	Extracted: Feb 6, 1990
Attention: Tim Loeb	First Sample #:	001-3719 C	Analyzed: Feb 12, 1990
			Reported: Feb 16, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons µg/L (ppb)
0013719 C	TC-1	120

Detection Limits:	50.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Nickie Teague
Project Manager