

FILED
HAKZMAT

July 25, 1994
SCI 609.001

94 JUL 26 PM 3:51

Ms. Marianne Robison
Buttner Properties
600 West Grand Avenue
Oakland, California 94612

**Quarterly Groundwater Monitoring
June 1994 Event
2250 Telegraph Avenue
Oakland, California**

Dear Ms. Robison:

This letter records the results of the June 1994 groundwater monitoring event for the referenced site. A groundwater monitoring program has been implemented in accordance with Regional Water Quality Control Board and the Alameda County Health Care Services Agency guidelines due to the presence of petroleum hydrocarbons and solvents in the soil beneath previous underground storage tanks. The program requires that the existing four wells be monitored on a quarterly basis. The locations of the wells and former tanks are presented on the Site Plan, Plate 1.

Groundwater Sampling

On June 6, 1994, the four existing wells (MW-1, MW-2, MW-3 and MW-4) were sampled. In general, the event consisted of (1) measuring groundwater levels using an electric well sounder, (2) checking for free product, (3) purging water from each well until pH, conductivity and temperature had stabilized (approximately 3 well volumes), and (4) after the wells had recovered to at least 80 percent of their initial level, sampling the wells with new disposable bailers. The samples were retained in glass containers pre-cleaned by the supplier in accordance with EPA protocol. The containers were placed in an ice filled cooler and remained iced until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory, copies of which are attached.

Analytical testing was performed by ChromaLab, Inc., a laboratory certified by the State of California Department of Health Services for hazardous waste and water testing. A sample from each well was analyzed for the following:

■ **Subsurface Consultants, Inc.**

Ms. Marianne Robison
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1. Total volatile hydrocarbons (TVH), EPA Methods 5030/8015,
2. Total extractable hydrocarbons (TEH), EPA Methods 3550/8015, and
3. Volatile organic compounds (VOC), EPA Methods 8010/8020.

The sample from well MW-4 adjacent to the former waste oil tank was also analyzed for total oil and grease (TOG), SMWW 17:5520.

A summary of the current and previous analytical test results are presented in Table 1. The groundwater level data are presented in Table 2. Analytical test report and Chain-of-Custody documents are attached.

Conclusions

Based on the groundwater data presented in Table 2, the groundwater gradient remains generally consistent with previous measurements. The gradient is relatively flat (1.3%) and tends toward the east. The groundwater gradient and flow contours for this event are shown on Plate 1.

Concentrations of volatile and extractable range hydrocarbons are present in all four wells. The highest concentrations of hydrocarbons and benzene detected during this event were found in well MW-4 adjacent to the former waste oil tank. 111 TCA, 11 DCA and PCE were detected at relatively low concentrations in well MW-3 only. No free product was observed during this event.

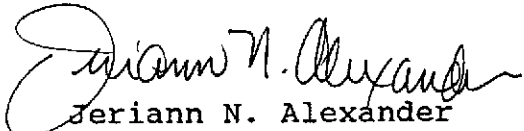
Ongoing Monitoring

In accordance with the monitoring program, the existing wells are to be monitored on a quarterly basis. As such, the next sampling event will occur in September 1994.

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.



Jeriann N. Alexander
Civil Engineer 40469 (expires 3/31/95)

JNA:RWR:jmw

Ms. Marianne Robison
Buttner Properties
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Attachments: Table 1 - Summary of Contaminants in Groundwater
Table 2 - Groundwater Elevation Data
Plate 1 - Site Plan
Analytical Test Report
Chain-of-Custody Form
Well Sampling Forms

Distribution:

1 copy: Ms. Marianne Robison
Buttner Properties
600 West Grand Avenue
Oakland, California 94612

1 copy: Ms. Jennifer Eberle
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Table 1
Summary of Contaminants in Groundwater

Well	Date	Petroleum Hydrocarbons					Volatile Organics							Metals	
		Gasoline µg/l	Kerosene µg/l	Diesel µg/l	Motor Oil mg/l	Oil & Grease mg/l	Benzene µg/l	Toluene µg/l	Ethyl- Benzene µg/l	Xylenes µg/l	1,1,1-TCA	1,1-DCA µg/l	PCE	Chloro- Benzene µg/l	Lead mg/l
MW-1	3/03/94	300	<50	<50	<0.5	<1	1.3	<0.5	2.7	3.1	<0.5	5.5	<0.5	<0.5	<0.01
	6/06/94	450 ✓	180+ ✓	<50 ✓	0.5 ✓	-	10 ✓	2.2	6.1	7.6	<0.5 ✓	<0.5 ✓	<0.5 ✓	<0.5 ✓	-
MW-2	3/03/94	110	<50	<50	<0.5	<1	<0.5	1.7	0.58	2.7	<0.5	<0.5	<0.5	<0.5	<0.01
	6/06/94	100 ✓	<50 ✓	<50 ✓	<0.5 ✓	-	11 ✓	<0.5	0.7	1.1	<0.5 ✓	<0.5 ✓	<0.5 ✓	<0.5 ✓	-
MW-3	3/03/94	85	<50	<50	<0.5	<1	<0.5	0.77	<0.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.01
	6/06/94	100 ✓	110+ ✓	<50 ✓	<0.5 ✓	-	<0.5 ✓	<0.5	<0.5	<0.5	25 ✓	0.8 ✓	21 ✓	<0.5	-
MW-4	3/03/94	4300	<50	240	<0.5	1.3	220	20	7.5	17	<0.5	5.9	<0.5	4.4	<0.01
	6/06/94	4400 ✓	<50 ✓	800+ ✓	<0.5 ✓	1.7 ✓	140 ✓	<0.5	<0.5	<0.5	<0.5 ✓	<0.5 ✓	<0.5 ✓	<0.5 ✓	-

1,2
DCA

5.5

0.8

by
SS20
B4F

+ = Uncategorized hydrocarbons quantified in ranges specified

mg/l = milligrams per liter = parts per million

µg/l = micrograms per liter = parts per billion

<1 = Chemical not present at a concentration greater than the laboratory detection limit shown or stated on test reports.

DCA = Dichloroethane

- = Chemical not tested for

TCA = Trichloroethane

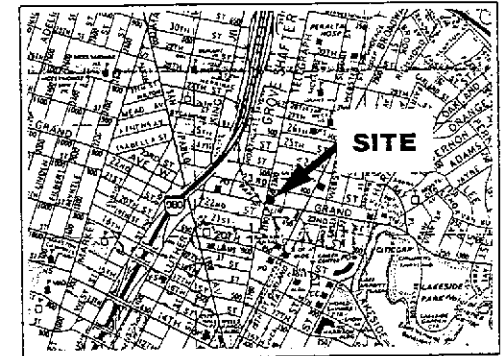
PCE = Tetrachloroethene

**Table 2
Groundwater Elevation Data**

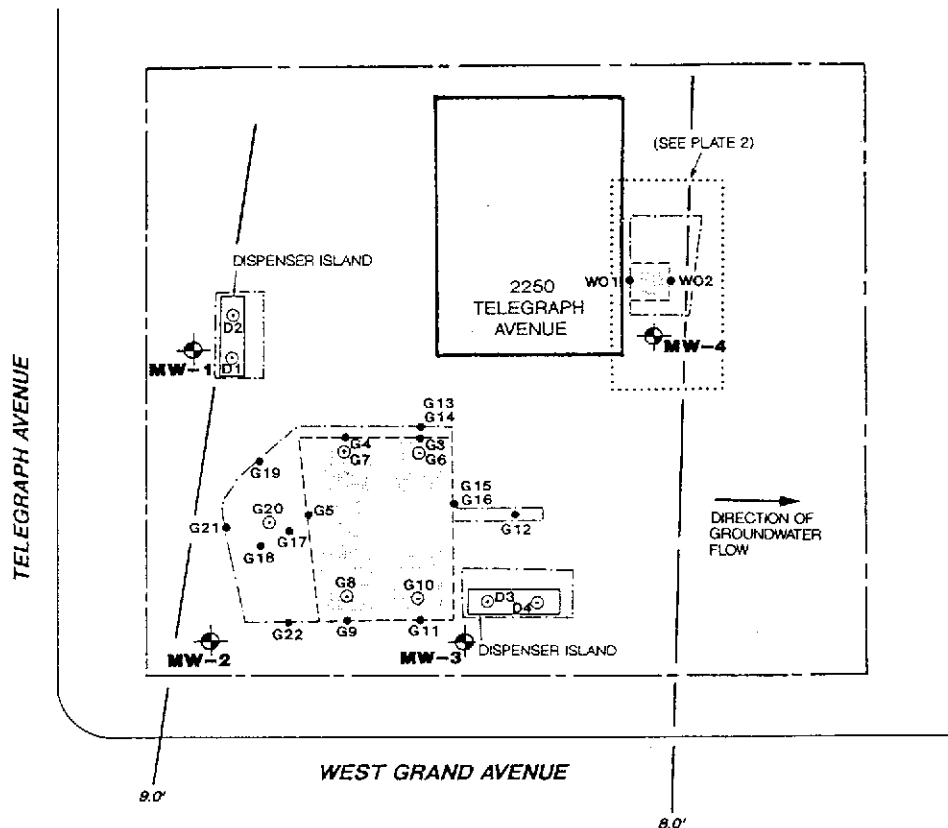
Well	Date	TOC Elevation (feet)	Depth (feet)	Elevation (feet)
1	3/03/94	20.55	10.39	10.16
	3/10/94		10.54	10.01
	6/06/94		11.36	9.19
2	3/03/94	20.03	10.37	9.66
	3/10/94		10.53	9.50
	6/06/94		11.15	8.88
3	3/03/94	18.97	9.50	9.47
	3/10/94		9.51	9.26
	6/06/94		10.28	8.69
4	3/03/94	19.88	10.89	8.99
	3/10/94		11.19	8.69
	6/06/94		11.85	8.03

TOC = Top of Casing

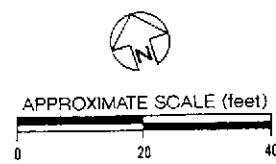
Elevation Reference: USCGS benchmark W1197, 1969 with a reported elevatin of +21.06 feet MSL datum.



VICINITY MAP



- x — FENCE
- STRUCTURE
- - - - - EXTENDED EXCAVATION
- - - - - ORIGINAL EXCAVATION
- ⊙ BOTTOM SAMPLE
- SIDEWALL SAMPLE
- PREVIOUS TANKS
- ⊕ MONITORING WELL
- GROUNDWATER ELEVATION CONTOURS (FEET) 6/6/94



SITE PLAN		
2250 TELEGRAPH AVENUE - OAKLAND, CA		PLATE
JOB NUMBER	DATE	APPROVED
609.002	7/25/94	
		1

Subsurface Consultants

CHROMALAB, INC.

Environmental Services (SDB)

June 13, 1994

ChromaLab File No.: 9406094

SUBSURFACE CONSULTANTS, INC.

Attn: Charles Pearson

RE: One water samples for Oil & Grease analysis

Project Name: 2250 TELEGRAPH AVE

Project Number: 609.002

Date Sampled: June 6, 1994 ✓


Date Submitted: June 7, 1994

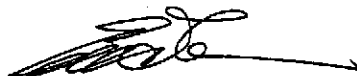
Date Analyzed: June 10, 1994

RESULTS:

<u>Sample</u> <u>I.D.</u>	<u>Oil & Grease</u> <u>(mg/L)</u>
MW-4	1.7 ✓
BLANK	N.D.
DETECTION LIMIT	1.0
METHOD OF ANALYSIS	STD METHOD 5520 B & F

ChromaLab, Inc.


Carolyn M. House
Analyst



Eric Tam
Laboratory Director

gg

CHROMALAB, INC.

Environmental Services (SDB)

June 14, 1994

ChromaLab File No.: 9406094

Revised: July 5, 1994

SUBSURFACE CONSULTANTS, INC.

Attn: Charles Pearson

RE: Four water samples for TEPH analysis

Project Name: 2250 TELEGRAPH AVE

Project Number: 609.002

Date Sampled: June 6, 1994

Date Submitted: June 7, 1994

Date Extracted: June 13, 1994

Date Analyzed: June 14, 1994

RESULTS:

Sample I.D.	Kerosene ($\mu\text{g/L}$)	Diesel ($\mu\text{g/L}$)	Motor Oil (mg/L)
MW-1	180* ✓	N.D. ✓	N.D. ✓
MW-2	N.D. ✓	N.D. ✓	N.D. ✓
MW-3	110* ✓	N.D. ✓	N.D. ✓
MW-4	N.D. ✓	800** ✓	N.D. ✓

* Uncategorized hydrocarbon in kerosene range quantified as kerosene.

** Uncategorized hydrocarbon in diesel range quantified as diesel.

BLANK	N.D.	N.D.	N.D.
SPIKE RECOVERY	--	90%	--
DUP SPIKE RECOVERY	--	92%	--
DETECTION LIMIT	50	50	0.5
METHOD OF ANALYSIS	3510/8015	3510/8015	3510/8015

ChromaLab, Inc.

Sirirat Chullakorn

Sirirat Chullakorn
Analytical Chemist

Ali Kharrazi

Ali Kharrazi
Organic Manager

99

CHROMALAB, INC.

Environmental Services (SDB)

July 5, 1994

Submission #: 9406094
Revised 7/5/94

SUBSURFACE CONSULTANTS, INC.

Atten: Charles Pearson

Project: 2250 TELEGRAPH AVE
Received: June 7, 1994

Project#: 609.002

re: 4 samples for Gasoline and BTEX analysis.

Matrix: WATER

Sampled: June 6, 1994

Lab Run#: 3061

Analyzed: June 9, 1994

Method: EPA 5030/8015M/602

Lab #	SAMPLE ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
54104	MW-1	0.43 ✓	10 ✓	2.2	6.1	7.6
54105	MW-2	0.10 ✓	11 ✓	N.D.	0.70	1.1
54106	MW-3	0.10 ✓	N.D. ✓	N.D.	N.D.	N.D.
Note: Detection limit = 0.6 ug/l for xylenes						
54107	MW-4	4.4 ✓	140 ✓	N.D.	N.D.	N.D.
DETECTION LIMITS		0.05	0.5	0.5	0.5	0.5
BLANK		N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)		101	106	106	109	107

ChromaLab, Inc.



Billy Thach
Chemist



Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

June 17, 1994

Submission #: 9406094

SUBSURFACE CONSULTANTS, INC.

Atten: Charles Pearson

Project: 2250 TELEGRAPH AVE
Received: June 7, 1994

Project#: 609.002

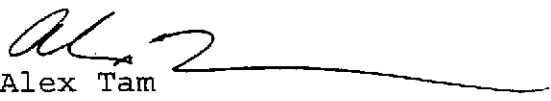
re: One sample for Volatile Halogenated Organics analysis.

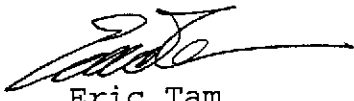
Sample: MW-1 ✓
Sampled: June 6, 1994
Method: EPA 8010

Matrix: WATER
Lab#: 54104 Run: 3108 Analyzed: June 16, 1994

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
BROMOMETHANE	N.D.	0.5	N.D.	--
CHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	118
METHYLENE CHLORIDE	N.D.	5	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	N.D.	0.5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE ✓	5.5 ✓	0.5	N.D.	--
TRICHLOROETHENE	N.D.	0.5	N.D.	103
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	0.5	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	N.D.	0.5	N.D.	101
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	--
CHLOROBENZENE	N.D.	0.5	N.D.	99
BROMOFORM	N.D.	0.5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	--
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
FREON 113	N.D.	0.5	N.D.	--
1,2-DIBROMOETHANE	N.D.	0.5	N.D.	--

ChromaLab, Inc.


Alex Tam
Chemist


Eric Tam
Laboratory Director

ERIC 17-12-42

CHROMALAB, INC.

Environmental Services (SDB)

June 17, 1994

Submission #: 9406094

SUBSURFACE CONSULTANTS, INC.

Atten: Charles Pearson

Project: 2250 TELEGRAPH AVE

Project#: 609.002

Received: June 7, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample: MW-2

Matrix: WATER

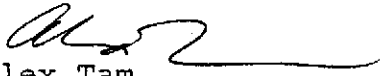
Sampled: June 6, 1994

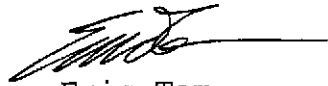
Lab#: 54105 Run: 3108 Analyzed: June 16, 1994

Method: EPA 8010

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
BROMOMETHANE	N.D.	0.5	N.D.	--
CHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	118
METHYLENE CHLORIDE	N.D.	5	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	N.D.	0.5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROETHENE	N.D.	0.5	N.D.	103
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	0.5	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	N.D.	0.5	N.D.	101
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	--
CHLOROBENZENE	N.D.	0.5	N.D.	99
BROMOFORM	N.D.	0.5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	--
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
FREON 113	N.D.	0.5	N.D.	--
1,2-DIBROMOETHANE	N.D.	0.5	N.D.	--

ChromaLab, Inc.


Alex Tam
Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Services (SDB)

June 17, 1994

Submission #: 9406094

SUBSURFACE CONSULTANTS, INC.

Atten: Charles Pearson

Project: 2250 TELEGRAPH AVE

Project#: 609.002

Received: June 7, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample: MW-3

Matrix: WATER


Sampled: June 6, 1994

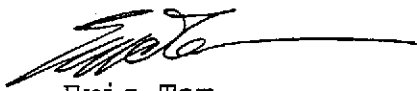
Lab#: 54106 Run: 3108 Analyzed: June 16, 1994

Method: EPA 8010

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
BROMOMETHANE	N.D.	0.5	N.D.	--
CHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	118
METHYLENE CHLORIDE	N.D.	5	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	N.D.	0.5	N.D.	--
1,1,1-TRICHLOROETHANE	2.5	0.5	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	0.80	0.5	N.D.	--
TRICHLOROETHENE	N.D.	0.5	N.D.	103
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	2.1	0.5	N.D.	101
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	--
CHLOROBENZENE	N.D.	0.5	N.D.	99
BROMOFORM	N.D.	0.5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	--
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
FREON 113	N.D.	0.5	N.D.	--
1,2-DIBROMOETHANE	N.D.	0.5	N.D.	--

ChromaLab, Inc.


Alex Tam
Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Services (SDB)

June 17, 1994

Submission #: 9406094

SUBSURFACE CONSULTANTS, INC.

Atten: Charles Pearson

Project: 2250 TELEGRAPH AVE
Received: June 7, 1994

Project#: 609.002

re: One sample for Volatile Halogenated Organics analysis.

Sample: MW-4

Matrix: WATER


Sampled: June 6, 1994

Lab#: 54107 Run: 3108 Analyzed: June 16, 1994

Method: EPA 8010

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
BROMOMETHANE	N.D.	0.5	N.D.	--
CHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	118
METHYLENE CHLORIDE	N.D.	5	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	N.D.	0.5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROETHENE	N.D.	0.5	N.D.	103
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	0.5	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	N.D.	0.5	N.D.	101
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	--
CHLOROBENZENE	N.D.	0.5	N.D.	99
BROMOFORM	N.D.	0.5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	--
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
FREON 113	N.D.	0.5	N.D.	--
1,2-DIBROMOETHANE	N.D.	0.5	N.D.	--

ChromaLab, Inc.


Alex Tam
Chemist


Eric Tam
Laboratory Director

ERIC 17:08:23

WELL SAMPLING FORM

Project Name: 2250 Telegraph Well Number: MW-1
 Job No.: 609.002 Well Casing Diameter: 2 inch
 Sampled By: Charles Pearson Date: 6-6-94
 TOC Elevation: _____ Weather: high clouds/cool

Depth to Casing Bottom (below TOC) 18 feet
 Depth to Groundwater (below TOC) 11.36 feet
 Feet of Water in Well 6.64 feet
 Depth to Groundwater When 80% Recovered 12.69 feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) 1.08 gallons
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other
 Free Product None
 Purge Method Boiler

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
0	7.6	—	112 x 10		T° gauge malfunction
3	8		114		
3½	8		110		
4	8		114		dry

Total Gallons Purged 4 gallons
 Depth to Groundwater Before Sampling (below TOC) 12.69 feet
 Sampling Method Boiler
 Containers Used 6 40 ml 1 liter _____ pint

Subsurface Consultants

		PLATE
JOB NUMBER	DATE	APPROVED

WELL SAMPLING FORM

Project Name: 2250 Telegraph Well Number: MW-2
 Job No.: 609.002 Well Casing Diameter: 2 inch
 Sampled By: Charles Pearson Date: 6-6-94
 TOC Elevation: _____ Weather: high clouds / cool

Depth to Casing Bottom (below TOC) 18 feet
 Depth to Groundwater (below TOC) 11.15 feet
 Feet of Water in Well 6.85 feet
 Depth to Groundwater When 80% Recovered 12.52 feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) 1.12 gallons
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other
 Free Product None
 Purge Method Bailer

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>0</u>	<u>8</u>	<u>22.5</u>	<u>109 x 10</u>		
<u>3 1/2</u>	<u>7.9</u>	<u>20.6</u>	<u>99 x 10</u>		
<u>4</u>	<u>7.9</u>	<u>21</u>	<u>105</u>		
<u>4 1/2</u>	<u>8</u>	<u>20.8</u>	<u>110</u>		

Total Gallons Purged 4 1/2 gallons
 Depth to Groundwater Before Sampling (below TOC) 12 feet
 Sampling Method Bailer
 Containers Used 6 40 ml 1 liter _____ pint

Subsurface Consultants

		PLATE
JOB NUMBER	DATE	APPROVED

WELL SAMPLING FORM

Project Name: 2250 Telegraph Well Number: MW-3
 Job No.: 609.002 Well Casing Diameter: 2 inch
 Sampled By: Charles Pearson Date: 6-6-94
 TOC Elevation: _____ Weather: high clouds/cool

Depth to Casing Bottom (below TOC) 18 feet
 Depth to Groundwater (below TOC) 10.28 feet
 Feet of Water in Well 7.72 feet
 Depth to Groundwater When 80% Recovered 11.82 feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) 1.26 gallons
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other
 Free Product None
 Purge Method Boiler

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>0</u>	<u>7.4</u>	<u>15.7</u>	<u>109 x 10</u>		
<u>2</u>	<u>7.6</u>	<u>20.6</u>	<u>123</u>		
<u>3</u>	<u>7.7</u>	<u>20.3</u>	<u>111</u>		<u>dry</u>

Total Gallons Purged 3 gallons
 Depth to Groundwater Before Sampling (below TOC) 11 feet
 Sampling Method Boiler
 Containers Used 6 40 ml 1 liter _____ pint

Subsurface Consultants

			PLATE
JOB NUMBER	DATE	APPROVED	

WELL SAMPLING FORM

Project Name: 2250 Telegraph Well Number: MW-4
 Job No.: 609.002 Well Casing Diameter: 2 inch
 Sampled By: Charles Pearson Date: 6-6-94
 TOC Elevation: _____ Weather: high clouds / cool

Depth to Casing Bottom (below TOC) 18 feet
 Depth to Groundwater (below TOC) 11.85 feet
 Feet of Water in Well 6.15 feet
 Depth to Groundwater When 80% Recovered 13.08 feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) 1.00 gallons
 Depth Measurement Method Tape & Paste / **Electronic Sounder** / Other
 Free Product None
 Purge Method Boiler

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
0	7.4	21.0	117 x 10		Slight sheen
3	7.6	20.6	119		
3 1/2	7.6	20.7	119		
4	7.6	20.7	119		

Total Gallons Purged 4 gallons
 Depth to Groundwater Before Sampling (below TOC) 12 feet
 Sampling Method Boiler
 Containers Used 6 40 ml 2 liter _____ pint

Subsurface Consultants

			PLATE
JOB NUMBER	DATE	APPROVED	