

Mr. Brian Oliva Alameda County Health Care Services Agency Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

Quarterly Groundwater Monitoring and Treatment System Decommissioning 6707 Bay Street Emeryville, California

Dear Mr. Oliva:

This letter records the results of a groundwater monitoring event and treatment system decommissioning performed by Subsurface Consultants, Inc. (SCI) at the referenced site in May 1993. Three underground tanks used to store methyl isobutyl ketone and possibly methyl ethyl ketone were removed from the site in October 1989 by others. Soil and groundwater adjacent to the previous tanks were shown, through studies by others, to have been impacted by past organic chemical releases. Soil vapor extraction and groundwater treatment systems were subsequently installed in 1990 to remediate contaminated soil and groundwater. The treatment systems were in operation till early 1991. Since 1991, no remediation has been performed. Treatment system and monitoring well locations are shown on the attached Site Plan, Plate 1.

Quarterly Monitoring Event

In accordance with the workplan dated April 22, 1993, groundwater monitoring has been implemented at the site. During our site reconnaissance, we were able to locate four existing wells. Initially, groundwater levels in these wells were measured. The groundwater level measurements are presented in Table 1. Groundwater surface contours are shown on Plate 1.

For this event, Wells 1, 3 and 8 were sampled. Prior to sampling, these wells were purged with a clean disposable bailer until measurements of water pH, conductivity and temperature stabilized. A minimum of 4 well volumes were removed from each well. The purged water was placed in 55 gallon drums and left on-site.

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Mr. Brian Oliva Alameda County Health Care Services Agency SCI 820.001 June 14, 1993 Page 2

After the wells had recharged to within 80 percent of the initial volume they were sampled using a pre-cleaned sampling device. The water samples were retained in precleaned containers, placed in an iced cooler, and kept refrigerated until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory.

Analytical testing was performed by Curtis & Tompkins, Ltd., a California Department of Health Services certified analytical laboratory for the test performed. The samples were analytically tested for the following:

- Volatile organic chemicals EPA 8240, and
- 2. Oil & grease SMWW 17:5520 E&F

A summary of the current and previous analytical test results are presented in Table 2. Analytical test reports and Chain-of-Custody documents are attached.

Treatment System Decommissioning

In accordance with the workplan, the surface piping and four soil vapor wells were removed. The surface piping was disconnected and stockpiled on-site. The vapor wells were abandoned by pulling out the 2-inch PVC well casing, over drilling the wells with hollow stem augers and backfilling the borings with cement grout. The PVC piping was disposed of at an appropriate landfill.

Conclusions

The groundwater level data indicates that the groundwater flow direction is toward the northwest at a gradient of approximately 2 percent. The flow direction is consistent with past studies by others. Groundwater contours for the May 1993 event are presented on Plate 1.

Methyl isobutyl ketone, MIBK (4-methyl-2 pentanone) was detected in Well 8 at a concentration of 100,000 ug/l. No other volatile organic chemicals (EPA 8240) nor oil and grease were detected at concentrations in excess of the analytical detection limits in the wells being monitored. For this reason, it appears that the MIBK contaminant plume is limited to the area immediately adjacent to the previous tanks.

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If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

R. William Rudolph

Geotechnical Engineer 741 (expires 12/31/96)

MK:RWR:egh

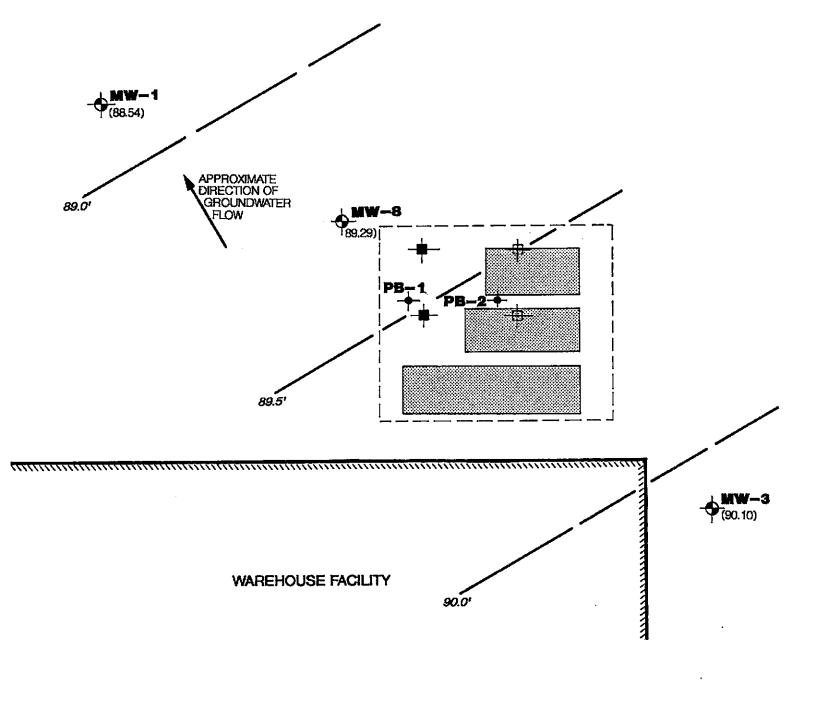
Attachments: Plate 1 - Site Plan

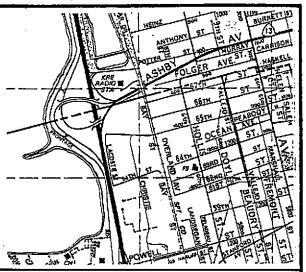
P. Willi - Rudope

Table 1 - Groundwater Elevation Data
Table 2 - Contaminant Concentrations in

Groundwater
ustody Records

Chain-of-Custody Records Analytical Test Reports





VICINITY MAP



- MONITORING WELL



VAPOR EXTRACTION WELL



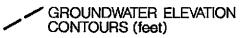
PASSIVE VAPOR RECHARGE WELL



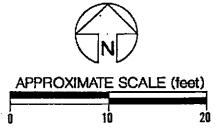
APPROXIMATE LOCATION OF PREVIOUS UNDERGROUND STORAGE TANK



--- PROPERTY LINE



(89.10) GROUNDWATER ELEVATION (feet)



SITE PLAN

6707 BAY STREET - EMERYVILLE, CA

PLATE

Subsurface Consultants

JOB NUMBER

DATE 820.001 6/14/93 APPROVED

Table 1.
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to groundwater (feet)	Groundwater Elevation (feet)
MW-1	05/20/93	99.99	10.25	89.74
	06/04/93		11.45	88.54
	,,			
MW-3	05/20/93	99.46	8.55	90.91
1111 5	06/04/93	33.40	9.36	90.10
	00/04/33		9.30	90.10
M1 7	06/04/00	00.74	10.67	67 67
MW-7	06/04/93	99.74	12.67	87.07
MT 0	05 (00 (00	100 10	0.55	00 55
8-WM	05/20/93	100.10	9.55	90.55
	06/04/93		10.81	89.29
	· •			

Elevation reference: Building corner is assumed to be at elevation 100.00 feet

Table 2 Contaminant Concentrations in Groundwater

Well	<u>Date</u>	Oil & Grease (mq/l) ¹	4-Methyl- 2 Pentanone (uq/1) ²	Vinyl Chloride (uq/l)	Acetone (ug/1)	2-Butanone (ug/1)	4- Methyl-2 Pentanol (ug/1)	Benzene (ug/l)	Toluene (ug/l)	Bis (2-Ethyl Hexyl) Phthalate (ug/l)	Other Organic Chemicals (ug/1)
MW1	07/06/89	3	NR ⁴	<0.3	NR	NR	NR	<0.3	<0.3	4	ND ⁵
	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	40	ND
	01/10/90		NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91		<10	<10	<20	<20	NR	7	8		ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5		ND
MW3	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	80	ND
	01/10/90		NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91		<10	<10	<20	<20	40	<5	<5	HH.	ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5		ND
8WM	01/10/90		160,000	<6,000	NR	NR	NR	2,100	<1,000	<100	ND
	12/10/90		47,000	<150	3,200	10,000	130,000	160	<25		ND
	09/05/91		150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000		ND
	05/20/93	<5	100,000	<5,000	<10,000	<5,000	NR	<3,000	<3,000		ND

Milligrams per liter Micrograms per liter Test not requested Not reported

Not detected above reporting limits



2323 Fifth Street, Berkeley, CA 9471O, Phone (51O) 486-0900

DATE RECEIVED: 05/20/93 DATE REPORTED: 05/26/93

LABORATORY NUMBER: 110974

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 820.001

LOCATION: 6707 BAY ST

RESULTS: SEE ATTACHED

Reviewed by

Reviewed by

This report may be reproduced only in its entirety.



Client: Subsurface Consultants Laboratory Login Number: 110974

Project Name: 6707 Bay St. Report Date: 26 May 93

Project Number: 820.001

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) METHOD: SMWW 17:5520BF

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batc
110974-002	MW 3	Water	20-MAY-93	20-MAY-93	25-MAY-93	ND	mg/L	5	TR	934
110974-003	MW 1	Water	20-MAY-93	20-MAY-93	25-MAY-93	ND	mg/L	5	TR	934
110974-004	MW 8	Water	20-MAY-93	20-MAY-93	25-MAY-93	ND	mg/L	5	TR	934
					ü					

ND = Not Detected at or above Reporting Limit (RL).



QC Batch Report

Client:

Subsurface Consultants

Laboratory Login Number: 110974

Project Name: 6707 Bay St.

Project Number: 820.001

Report Date:

26 May 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) QC Batch

Number:

9343

Blank Results

Sample ID Result

MDL Units Method Date Analyzed

BLANK

ND

mg/L 5

SMWW 17:5520BF

25-MAY-93

Spike/Duplicate Results

Sample ID Recovery

Method

Date Analyzed

BS

888

SMWW 17:5520BF

25-MAY-93

BSD

85%

SMWW 17:5520BF

25-MAY-93

Control Limits 80% - 120%

Average Spike Recovery Relative Percent Difference 86% 3.5%

< 20%



LABORATORY NUMBER: 110974-2 DAT CLIENT: SUBSURFACE CONSULTANTS DAT

PROJECT ID: 820.001 LOCATION: 6707 BAY ST

SAMPLE ID: MW 3

DATE SAMPLED: 05/20/93 DATE RECEIVED: 05/20/93 DATE ANALYZED: 05/25/93 DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5
rear il raiion	11 W	3

ND = Not detected at or above reporting limit QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	111 %
Toluene-d8	98 %

Bromofluorobenzene 98 %



LABORATORY NUMBER: 110974-3 CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 820.001 LOCATION: 6707 BAY ST

SAMPLE ID: MW 1

DATE SAMPLED: 05/20/93 DATE RECEIVED: 05/20/93 DATE ANALYZED: 05/25/93 DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ЙD	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	- 5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	110	ક્ર
Toluene-d8	99	%
Bromofluorobenzene	100	%



DATE SAMPLED: 05/20/93

DATE RECEIVED: 05/20/93 DATE ANALYZED: 05/24/93 DATE REPORTED: 05/26/93

LABORATORY NUMBER: 110974-4 CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 820.001 LOCATION: 6707 BAY ST

SAMPLE ID: MW 8

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	5,000
Bromomethane	ND	5,000
Vinyl chloride	ND	5,000
Chloroethane	ND	5,000
Methylene chloride	ND	10,000
Acetone	ND	10,000
Carbon disulfide	ND	3,000
Trichlorofluoromethane	ND	3,000
1,1-Dichloroethene	ND	3,000
1,1-Dichloroethane	ND	3,000
cis-1,2-Dichloroethene	ND	3,000
trans-1,2-Dichloroethene	ND .	3,000
Chloroform	ND	3,000
Freon 113	ND	3,000
1,2-Dichloroethane	ND	3,000
2-Butanone	ND	5,000
1,1,1-Trichloroethane	ND	3,000
Carbon tetrachloride	NĎ	3,000
Vinyl acetate	ND	5,000
Bromodichloromethane	ND	3,000
1,2-Dichloropropane	ND	3,000
cis-1,3-Dichloropropene	ND	3,000
Trichloroethene	ND	3,000
Dibromochloromethane	ND	3,000
1,1,2-Trichloroethane	ND	3,000
Benzene	ND	3,000
trans-1,3-Dichloropropene	ND	3,000
Bromoform	ND	3,000
2-Hexanone	ND	5,000
4-Methyl-2-pentanone	100,000	5,000
1,1,2,2-Tetrachloroethane	ND	3,000
Tetrachloroethene	ND	3,000
Toluene	ND	3,000
Chlorobenzene	ND	3,000
Ethyl benzene	ND	3,000
Styrene	ND	3,000
Total xylenes	ND	3,000
-		

ND = Not detected at or above reporting limit QA/QC SUMMARY: SURROGATE RECOVERIES

			•
1,2-Dichloroethane-d4	105	왕	
Toluene-d8	98	%	
Bromofluorobenzene	95	ક	



LABORATORY NUMBER: 110974-METHOD BLANK DATE ANALYZED: 05/24/93

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 820.001 LOCATION: 6707 BAY ST

DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	105	ક
Toluene-d8	97	ક્ર
Bromofluorobenzene	91	૪



LABORATORY NUMBER: 110974-METHOD BLANK DATE ANALYZED: 05/25/93 CLIENT: SUBSURFACE CONSULTANTS DATE REPORTED: 05/26/93

PROJECT ID: 820.001 LOCATION: 6707 BAY ST

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ЙD	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ИĎ	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	113 %	į.
Toluene-d8	99 %	ŝ
Bromofluorobenzene	98 %	į.

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CHAIN OF CUSTODY RECORD								
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME					
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME	-				
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COMMENTS & NOTES:

ADD NETHYLETHYLKETONE AND METHYL ISOSUTYLKETONE TO 16240 Manysis

Subsurface Consultants, Inc.

171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607 (510) 268-0461 • FAX: 510-268-0137



QC SUMMARY SHEET FOR EPA 8240

Laboratory Number:

110974

Client:

Subsurface Consultants Spike file: ceo21 05/25/93 Spike dup file: ceo22

Analysis date:

Sample type:

Water

SPIKE DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	50.76	102 %	OK	61 - 145
Trichloroethene	49.41	99 %	OK	71 - 120
Benzene	52.37	105 %	OK	76 - 127
Toluene	50.47	101 %	OK	76 - 125
Chlorobenzene	51.20	102 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	53.28	107 %	OK	76 - 114
Toluene-d8	49.26	99 %	OK	88 - 110
Bromofluorobenzene	48.66	97 %	OK	86 - 115

SPIKE DUP DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	47.01	94 %	OK	61 - 145
Trichloroethene	47.96	96 %	OK	71 - 120
Benzene	50.19	100 %	OK	76 - 127
Toluene	50.02	100 %	OK	76 - 125
Chlorobenzene	50.90	102 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	53.20	106 %	OK	76 - 114
Toluene-d8	49.70	99 %	OK	88 - 110
Bromofluorobenzene	50.19	100 %	OK	86 - 115
MATRIX RESULTS				
1,1-Dichloroethene	0	*		
Trichloroethene	0			
Benzene	0			
Toluene	0			
Chlorobenzene	0			
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RPD DATA

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SPIKE COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	50.76	47.01	8 %	OK	< 14
Trichloroethene	49.41	47.96	3 %	OK	< 14
Benzene	52.37	50.19	4 %	OK	< 11
Toluene	50.47	50.02	1 %	OK	< 13
Chlorobenzene	51.20	50.90	1 %	OK	< 13