

R. William Rudolph, Jr., PE
Thomas E. Cundey, PE
Jeriann N. Alexander, PE

June 15, 1995
SCI 469.009

Mr. Robert Mibach
Director, Physical Plant
Peralta Community College District
333 East 8th Street
Oakland, California 94606

**Quarterly Groundwater Monitoring
May 1995 Event
College of Alameda
555 Atlantic Avenue
Alameda, California**

95 JUN 19 PM 2:52
ENVIRONMENTAL
PROTECTION
DIVISION

Dear Mr. Mibach:

This letter presents the results of quarterly groundwater monitoring conducted by Subsurface Consultants, Inc. (SCI) at the referenced site. The monitoring program has been implemented in accordance with Regional Water Quality Control Board and Alameda County Health Care Services Agency (ACHCSA) guidelines due to the presence of petroleum hydrocarbons in the soil beneath previous underground fuel storage tanks. Five wells currently exist at the site. Wells MW-1, MW-3 and MW-5 are being monitored quarterly; wells MW-2 and MW-4 are being monitored semi-annually.

Groundwater Sampling

The sampling event was performed from May 22 to 24, 1995. Initially, the depth to water below the top of casing (TOC) was measured in all the wells using an electric well sounder. Current and previous groundwater elevation data are presented in Table 1.

For this event, wells MW-1, MW-3, MW-4 and MW-5 were sampled. Initially, the wells were checked for free floating product using a steel tape with petroleum product sensitive paste. The slow recharging wells, MW-1, MW-3, and MW-4 were then purged by bailing them dry with a disposable bailer. Well MW-5 was purged by bailing with a disposable bailer until temperature, pH, and conductivity measurements had stabilized. Well sampling forms are attached. Well MW-4 was resampled on June 7, 1995, due to a laboratory problem with the method blank.

■ **Subsurface Consultants, Inc.**

171 12th Street • Suite 201 • Oakland, California 94607 • Telephone 510-268-0461 • FAX 510-268-0137

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The wells were sampled after they had recharged to within 80% of their initial volume. The samples were retained in glass containers pre-cleaned by the supplier in accordance with EPA protocol. The samples were placed in an ice chest and remained refrigerated until transmitted to the analytical laboratory. Chain of Custody records accompanied the samples to the laboratory.

Analytical Testing

Groundwater samples were transmitted to Curtis and Tompkins, Ltd., a State of California Department of Health Services certified analytical laboratory. The testing program included the following analyses:

1. Total extractable hydrocarbons (TEH),
2. Benzene, toluene, ethylbenzene, and xylenes (BTEX), and
3. Total oil and grease (TOG).

The results of all analytical testing events are presented in Table 2. Analytical test reports and Chain-of-Custody records for the current event are attached.

Conclusions

Groundwater level data indicate that groundwater currently flows in a northwest direction at a gradient of about 1 percent. Groundwater flow contours for the current event are presented on Plate 2.

TEH within the diesel range were detected in wells MW3, MW-4 and MW-5. The analytical laboratory has indicated that oil range components contributed to the diesel range quantitation. Oil and grease was detected in well MW-1 and MW-3. TEH was not detected in well MW-1 during this event. BTXE were not detected in the wells sampled during this event.

Ongoing Monitoring

In accordance with the monitoring schedule, the next monitoring event is scheduled for August 1995. During that event, water level readings will be obtained from all the wells and wells MW-1, MW-2, MW-3 and MW-5 will be sampled. The groundwater samples will be analyzed for total extractable hydrocarbons, total oil and grease, and BTXE.

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If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

Marianne Watada

Marianne Watada
Project Engineer

MFW:JNA:sld

2 copies submitted

Attachments: Table 1 - Contaminant Concentrations in Groundwater
Table 2 - Groundwater Elevations
Plate 1 - Site Plan
Plate 2 - Study Area Plan
Analytical Test Report
Chain-of-Custody Form
Well Sampling Forms

cc: ✓ Ms. Juliet Shin
Alameda County Health Care Services Agency
Hazardous Materials Division
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

**Table 1.
Groundwater Elevations**

<u>Well</u>	<u>TOC Elevation</u>	<u>Date</u>	<u>Groundwater Depth (feet)</u>	<u>Groundwater Elevation (feet)</u>
MW-1	12.16	02/24/92	1.64	10.52
		03/09/92	4.28	7.88
		03/24/92	4.33	7.83
		04/28/92	4.54	7.62
		06/29/92	5.92	6.24
		07/27/92	5.74	6.42
		08/27/92	6.04	6.12
		09/24/92	6.16	6.00
		12/16/92	6.19	5.97
		01/21/93	6.83	5.33
		02/07/94	6.01	6.15
		05/03/94	5.03	7.13
		06/02/94	5.14	7.02
		08/23/94	5.20	6.96
		11/03/94	5.51	6.65
		02/13/95	5.30	6.86
05/22/95	5.05	7.11		
MW-2	11.07	02/24/92	4.45	6.62
		01/21/93	6.83	4.24
		03/24/92	3.73	7.34
		04/28/92	4.25	6.82
		06/29/92	4.40	6.67
		07/27/92	4.00	7.07
		08/27/92	4.33	6.74
		09/24/92	4.36	6.71
		12/16/92	4.08	6.99
		01/21/93	4.40	6.67
		02/07/94	3.60	7.47
		05/03/94	4.04	7.03
		06/02/94	4.17	6.90
		08/23/94	4.28	6.79
		11/03/94	4.33	6.74
		02/13/95	5.95	5.12
05/22/95	4.10	6.97		
MW-3	12.65	02/24/92	13.12	-0.47
		03/09/92	8.75	3.90
		03/24/92	6.87	5.78
		04/28/92	6.31	6.34
		06/04/92	7.10	5.55
		06/29/92	10.78	1.87
		07/27/92	6.88	5.77

Table 1
Groundwater Elevations
(continued)

<u>Well</u>	<u>TOC Elevation</u>	<u>Date</u>	<u>Groundwater Depth (feet)</u>	<u>Groundwater Elevation (feet)</u>
		09/24/92	7.38	5.27
		12/16/92	6.50	6.15
		01/21/92	10.25	2.40
		02/07/94	11.44	1.21
		05/03/94	7.02	5.63
		06/02/94	9.15	3.50
		08/23/94	7.13	5.52
		11/03/94	7.54	5.11
		02/13/95	5.80	6.85
		05/22/95	7.87	4.78
MW-4	12.22	02/07/94	5.92	6.30
		05/03/94	5.50	6.72
		06/02/94	5.17	7.05
		08/23/94	5.73	6.49
		11/03/94	6.41	5.81
		02/13/95	4.65	7.57
		05/22/95	4.77	7.45
MW-5	12.69	02/07/94	4.89	7.80
		05/03/94	4.50	8.19
		06/02/94	4.49	8.20
		08/23/94	4.83	7.86
		11/03/94	5.14	7.55
		02/13/95	4.19	8.50
		05/22/95	4.25	8.44

TOC = Top of Casing

Groundwater depth measured below TOC

TOC elevation surveyed relative to mean sea level

Table 2
Contaminant Concentrations in Groundwater

	<u>Sampling Date</u>	<u>TVH (ug/l)</u>	<u>TEH</u>		<u>TOG (mg/l)</u>	<u>Benzene (ug/l)</u>	<u>Toluene (ug/l)</u>	<u>Ethyl-Benzene (ug/l)</u>	<u>Total Xylenes (ug/l)</u>	<u>EPA 8010 Chemicals</u>
			<u>Kerosene Range (ug/l)</u>	<u>Diesel Range (ug/l)</u>						
<u>Fuel Oil Tank Area</u>										
MW-1	02/19/92	--	<50	94	--	<0.5	<0.5	<0.5	<0.5	--
	06/29/92	--	<50	110	--	<0.5	<0.5	<0.5	<0.5	--
	09/29/92	--	<50	<50	--	<0.5	<0.5	<0.5	<0.5	--
	12/22/92	--	<50	180	--	<0.5	<0.5	<0.5	<0.5	--
	01/26/94	--	60	<50	<5	<0.5	<0.5	<0.5	<0.5	--
	05/04/94	--	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--
	08/25/94	--	*	480	<5	<0.5	<0.5	<0.5	<0.5	--
	11/07/94	--	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--
	02/13/95	--	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--
	05/24/95	--	--	<50	9.7	<0.5	<0.5	<0.5	<0.5	--
MW-4	01/26/94	--	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--
	08/25/94	--	*	530	<5	<0.5	<0.5	<0.5	<0.5	--
	05/27/95	--	--	240	<5	<0.5	<0.5	<0.5	<0.5	--
<u>Gasoline Tank Area</u>										
Tank Excavation	08/15/91	800	--	--	--	78	99	10	52	--
MW-2	02/19/92	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--
	06/29/92	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--
	09/29/92	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--
	12/22/92	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--
	01/25/94	--	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--
	05/04/94	--	*	50	<5	<0.5	<0.5	<0.5	<0.5	--
	11/04/94	--	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--
	02/13/95	--	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--

Table 2.
(continued)
Contaminant Concentrations in Groundwater

	<u>Sampling Date</u>	<u>TVH (ug/l)</u>	<u>TEH</u>		<u>TOG (mg/l)</u>	<u>Benzene (ug/l)</u>	<u>Toluene (ug/l)</u>	<u>Ethyl-Benzene (ug/l)</u>	<u>Total Xylenes (ug/l)</u>	<u>EPA 8010 Chemicals</u>
			<u>Kerosene Range (ug/l)</u>	<u>Diesel Range (ug/l)</u>						
<u>Waste Oil Tank Area</u>										
MW-3	02/19/92	<5000+	680	<50	<5	<50	<50	<50	84	ND
	06/29/92	<50	*	190	<5	<0.5	<0.5	<0.5	<0.5	ND
	09/29/92	<50	*	410	<5	<0.5	<0.5	<0.5	<0.5	ND
	12/21/92	<500	*	400	<5	<5	<5	<5	<5	ND
	01/26/94	--	70	<50	<5	<0.5	<0.5	<0.5	0.8	--
	05/05/94	--	<50	140	<5	<0.5	<0.5	<0.5	<0.5	--
	08/25/94	--	*	900	<5	14.5	5.1	<0.5	<0.5	--
	11/07/94	--	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--
	02/13/95	--	*	310	5.9	<0.5	<0.5	<0.5	<0.5	--
	05/24/95	--	--	390	14	<0.5	<0.5	<0.5	<0.5	--
MW-5	01/25/94	--	*	5,200++	<5	<0.5	<0.5	<0.5	<0.5	--
	05/04/94	--	*	3,500++	<5	<0.5	<0.5	<0.5	<0.5	--
	08/25/94	--	*	5,000++	<5	<0.5	<0.5	<0.5	<0.5	--
	11/04/94	--	*	4,600++	<5	<0.5	<0.5	<0.5	<0.5	--
	02/13/95	--	*	3,000++	<5	<0.5	<0.5	<0.5	<0.5	--
	05/22/95	--	--	3,100++	<5	<0.5	<0.5	<0.5	<0.5	--

TVH = Total volatile hydrocarbons as gasoline, EPA 8015/5030 modified

TEH = Total extractable hydrocarbons, EPA 3550/8015 modified

TOG = Total oil and grease, EPA 3550 and SMWW 17:5520 B&F

ug/l = Micrograms per liter or parts per billion (ppb)

mg/l = Milligrams per liter or parts per million (ppm)

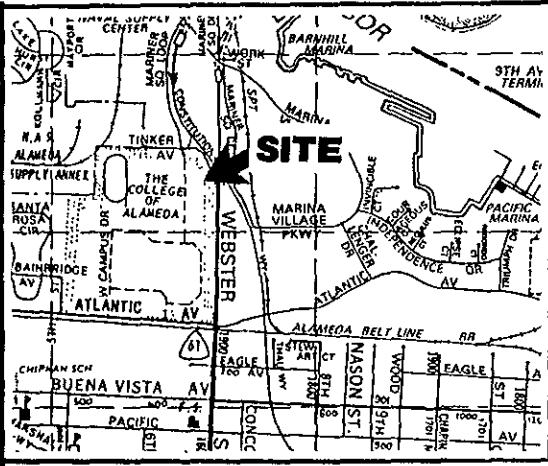
-- = Test not requested

+ = Sample diluted due to foaming during purge and trap extraction

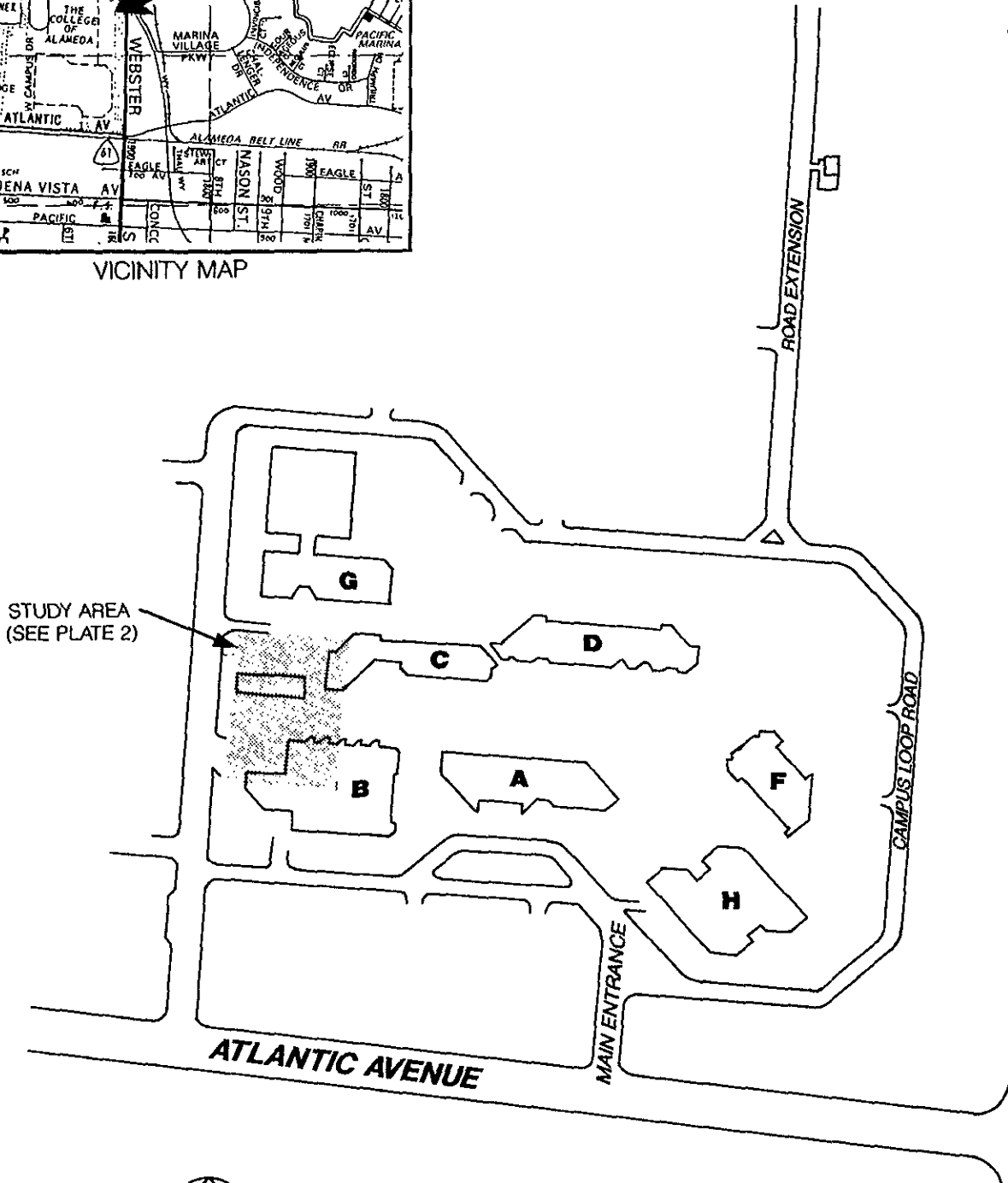
ND = Not detected at or above reporting limits. Reporting limits vary from 1.0 to 20 ug/l. See test reports for individual reporting limits.

* = Quantitated as diesel range

++ = Laboratory indicates that the sample chromatogram resembles a light weight oil.



VICINITY MAP



APPROXIMATE SCALE (feet)



SITE PLAN

Subsurface Consultants

COLLEGE OF ALAMEDA - ALAMEDA, CA





JOB NUMBER
469.009

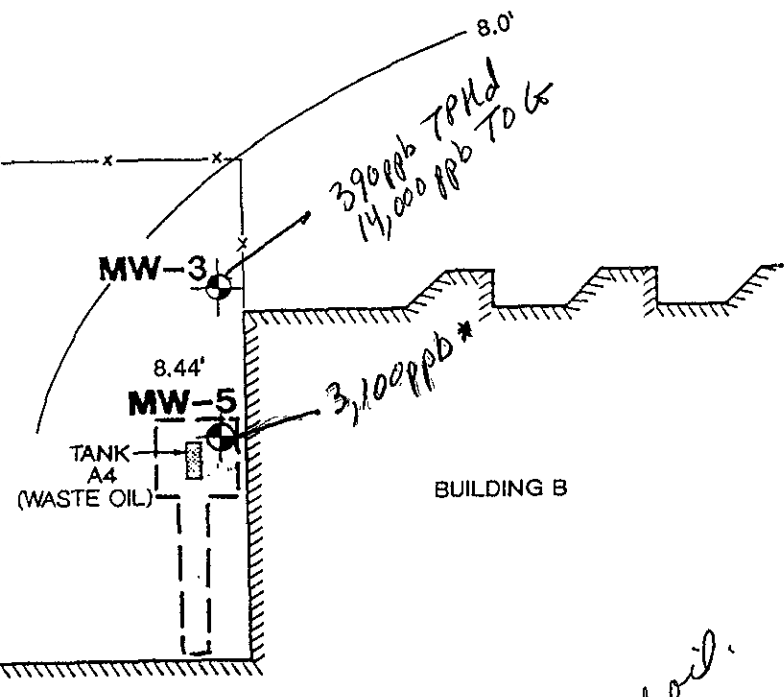
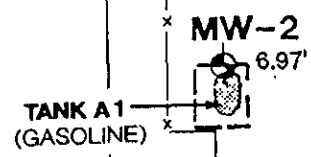
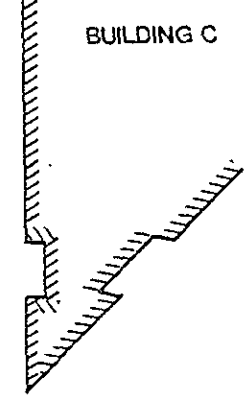
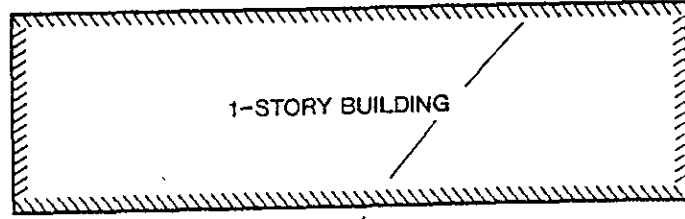
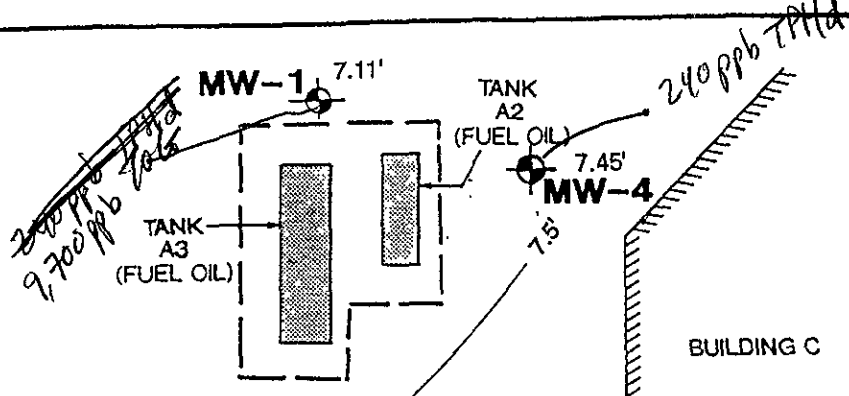
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3/12/92

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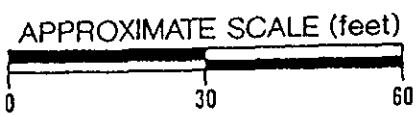
PLATE

1

 MONITORING WELL
 LIMITS OF PREVIOUS EXCAVATION
 FORMER TANK LOCATION
 6.15' GROUNDWATER ELEVATIONS 5/22/95
 GROUNDWATER ELEVATION CONTOURS (FEET) 5/22/95



BUILDING B



555 Atlantic Ave. *light cut-oil.

STUDY AREA PLAN

Subsurface Consultants

COLLEGE OF ALAMEDA - ALAMEDA, CA			PLATE
JOB NUMBER	DATE	APPROVED	2
469.009	6/1/95	MW	

WELL SAMPLING FORM

Project Name: College of Alameda Well Number: MW-3
 Job No.: 469.009 Well Casing Diameter: 2 inch
 Sampled By: COB Date: 5/22/95
 TOC Elevation: _____ Weather: _____

Depth to Casing Bottom (below TOC) _____ feet
 Depth to Groundwater (below TOC) 7.87 feet
 Feet of Water in Well _____ feet
 Depth to Groundwater When 80% Recovered _____ feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) _____ gallons
 Depth Measurement Method Tape & Paste Electronic Sounder / Other _____
 Free Product none
 Purge Method teflon bailer

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>1</u>	<u>6.39</u>	<u>57.1</u>	<u>1220</u>	_____	_____
<u>2</u>	<u>6.41</u>	<u>57.3</u>	<u>1330</u>	_____	_____
<u>3</u>	<u>6.44</u>	<u>57.8</u>	<u>1310</u>	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Total Gallons Purged 3 emptied gallons
 Depth to Groundwater Before Sampling (below TOC) _____ feet
 Sampling Method teflon bailer
 Containers Used 3 40 ml 2 liter _____ pint

Subsurface Consultants	JOB NUMBER	DATE	APPROVED	PLATE

WELL SAMPLING FORM

Project Name: College of Alameda Well Number: MW-4
 Job No.: 469-009 Well Casing Diameter: 2 inch
 Sampled By: COB Date: 5/24/95
 TOC Elevation: _____ Weather: _____

Depth to Casing Bottom (below TOC) _____ feet
 Depth to Groundwater (below TOC) 4.77 feet
 Feet of Water in Well _____ feet
 Depth to Groundwater When 80% Recovered _____ feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) _____ gallons
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other _____
 Free Product NONE
 Purge Method Teflon Bailor

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>1</u>	<u>6.34</u>	<u>58.1</u>	<u>1000</u>	_____	_____
<u>2</u>	<u>6.45</u>	<u>57.9</u>	<u>980</u>	_____	_____
<u>3</u>	<u>6.48</u>	<u>57.8</u>	<u>950</u>	_____	_____
<u>4</u>	<u>6.49</u>	<u>57.9</u>	<u>990</u>	_____	_____

Total Gallons Purged 4 water level dropped signif. gallons
 Depth to Groundwater Before Sampling (below TOC) _____ feet
 Sampling Method Teflon Bailor
 Containers Used 3 40 ml 2 liter _____ pint

Subsurface Consultants	JOB NUMBER		DATE	APPROVED	PLATE

WELL SAMPLING FORM

Project Name: College of Alameda Well Number: MWD-4
 Job No.: 469.009 Well Casing Diameter: 2 inch
 re Sampled By: CODea Date: 6/7/95
 TOC Elevation: _____ Weather: clear Sunny

Depth to Casing Bottom (below TOC) _____ feet
 Depth to Groundwater (below TOC) 4.89 feet
 Feet of Water in Well _____ feet
 Depth to Groundwater When 80% Recovered _____ feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) _____ gallons
 Depth Measurement Method Tape & Paste Electronic Sounder Other _____
 Free Product _____
 Purge Method _____

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>1</u>	<u>6.48</u>	<u>68.6</u>	<u>1158</u>	_____	_____
<u>2</u>	<u>6.36</u>	<u>68.4</u>	<u>1195</u>	_____	_____
<u>3</u>	<u>6.38</u>	<u>66.9</u>	<u>1159</u>	_____	_____
<u>4</u>	<u>6.40</u>	<u>67.3</u>	<u>1201</u>	_____	_____

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

Subsurface Consultants			PLATE
	JOB NUMBER	DATE	APPROVED

WELL SAMPLING FORM

Project Name: College of Alameda Well Number: MW-5
 Job No.: 469.009 Well Casing Diameter: 2 inch
 Sampled By: RODIN Date: 5/22/95
 TOC Elevation: _____ Weather: _____

Depth to Casing Bottom (below TOC) _____ feet
 Depth to Groundwater (below TOC) 4.25 feet
 Feet of Water in Well _____ feet
 Depth to Groundwater When 80% Recovered _____ feet
 Casing Volume (feet of water x Casing DIA² x 0.0408) _____ gallons
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other _____
 Free Product none
 Purge Method teflon bailer

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>2</u>	<u>6.19</u>	<u>60.3</u>	<u>4460</u>	_____	_____
<u>4</u>	<u>6.28</u>	<u>58.4</u>	<u>4500</u>	_____	_____
<u>6</u>	<u>6.30</u>	<u>58.3</u>	<u>4570</u>	_____	_____
<u>8</u>	<u>6.29</u>	<u>58.4</u>	<u>4490</u>	_____	_____

Total Gallons Purged 8 gallons
 Depth to Groundwater Before Sampling (below TOC) _____ feet
 Sampling Method teflon bailer
 Containers Used 3 2
 40 ml liter pint

Subsurface Consultants	JOB NUMBER _____		DATE _____	APPROVED _____	PLATE



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 13-JUN-95
Lab Job Number: 121142
Project ID: 469.009
Location: College of Alameda

Reviewed by: _____

Reviewed by: _____

This package may be reproduced only in its entirety.



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 121142
 CLIENT: SUBSURFACE CONSULTANTS
 PROJECT ID: 469.009
 LOCATION: COLLEGE OF ALAMEDA

DATE SAMPLED: 05/22,24/95
 DATE RECEIVED: 05/24/95
 DATE ANALYZED: 05/25/95
 DATE REPORTED: 06/13/95
 BATCH NO: 20824

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)	REPORTING LIMIT (ug/L)
121142-001	MW-1	ND	ND	ND	ND	0.5
121142-002	MW-3	ND	ND	ND	ND	0.5
121142-003	MW-4	ND	ND	ND	ND	0.5
121142-004	MW-5	ND	ND	ND	ND	0.5
METHOD BLANK	N/A	ND	ND	ND	ND	0.5

ND = Not detected at or above reporting limit.

Reporting Limit applies to all analytes.

QA/QC SUMMARY: BS/BSD

RPD, %	8
RECOVERY, %	103



Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 121142

Project Name: College of Alameda

Report Date: 13 June 95

Project Number: 469.009

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric)

METHOD: SMWW 17:5520BF

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
121142-001	MW-1	Water	24-MAY-95	24-MAY-95	31-MAY-95	9.7	mg/L	5	TR	20922
121142-002	MW-3	Water	24-MAY-95	24-MAY-95	31-MAY-95	14	mg/L	5	TR	20922
121142-003	MW-4	Water	24-MAY-95	24-MAY-95	31-MAY-95	ND	mg/L	5	TR	20922
121142-004	MW-5	Water	22-MAY-95	24-MAY-95	31-MAY-95	ND	mg/L	5	TR	20922

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



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Q C B a t c h R e p o r t

Client: Subsurface Consultants
 Project Name: College of Alameda
 Project Number: 469.009

Laboratory Login Number: 121142
 Report Date: 13 June 95

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric)

QC Batch Number: 20922

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	31-MAY-95

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	87%	SMWW 17:5520BF	31-MAY-95
BSD	83%	SMWW 17:5520BF	31-MAY-95

Average Spike Recovery
 Relative Percent Difference

85%
 5.2%

Control Limits
 80% - 120%
 < 20%



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LABORATORY NUMBER: 121142
 CLIENT: SUBSURFACE CONSULTANTS
 PROJECT ID: 469.009
 LOCATION: COLLEGE OF ALAMEDA

DATE SAMPLED: 05/22, 24/95
 DATE RECEIVED: 05/24/95
 DATE EXTRACTED: 06/06/95
 DATE ANALYZED: 06/08/95
 DATE REPORTED: 06/13/95
 BATCH NO: 21057

Extractable Petroleum Hydrocarbons in Aqueous Solutions
 California DOHS Method
 LUFT Manual October 1989

LAB ID	CLIENT ID	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
121142-001	MW-1	ND	50
121142-002	MW-3	390*	50
121142-004	MW-5	3,100*+	50
METHOD BLANK	N/A	ND	50

ND = Not detected at or above reporting limit. Reporting limit applies to all analytes.

* Sample chromatogram does not resemble Diesel standard.

+ Sample chromatogram does resemble Hydraulic Fluid.

QA/QC SUMMARY: BS/BSD

RPD, %	10
RECOVERY, %	102



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 13-JUN-95
Lab Job Number: 121290
Project ID: 469.009
Location: College of Alameda

Reviewed by:

A handwritten signature in black ink, appearing to be 'J. G.', written over a horizontal line.

Reviewed by:

A handwritten signature in black ink, appearing to be 'Mary Plesner', written over a horizontal line.

This package may be reproduced only in its entirety.



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 121290
 CLIENT: SUBSURFACE CONSULTANTS
 PROJECT ID: 469.009
 LOCATION: COLLEGE OF ALAMEDA

DATE SAMPLED: 06/07/95
 DATE RECEIVED: 06/07/95
 DATE EXTRACTED: 06/07/95
 DATE ANALYZED: 06/09/95
 DATE REPORTED: 06/13/95
 BATCH NO: 21089

Extractable Petroleum Hydrocarbons in Aqueous Solutions
 California DOHS Method
 LUFT Manual October 1989

LAB ID	CLIENT ID	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
121290-001	MW-4	240*	50
METHOD BLANK	N/A	ND	50

ND = Not detected at or above reporting limit. Reporting limit applies to all analytes.

* Sample chromatogram does not resemble Diesel standard.

QA/QC SUMMARY: BS/BSD

RPD, %	<1
RECOVERY, %	115

