

ALCO
HAZMAT

June 13, 1994
SCI 469.009

94 JUN 14 PM 2:40

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

Quarterly Groundwater Monitoring
May 1994 Event
College of Alameda
555 Atlantic Avenue
Alameda, California

Dear Mr. Mibach:

This letter records the results of the May 1994 groundwater monitoring event for the referenced site. Monitoring 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.

Groundwater Level Measurements and Sampling

Groundwater level measurements from all five wells were obtained on May 3, 1994 and June 2, 1994. Groundwater elevation contours from June 2, 1994 are presented on the Site Plan, Plate 1.

The sampling event was performed between May 3 and May 5, 1994. Initially, the slow recharging wells, MW-1 and MW-3, were purged by bailing them dry with a disposable bailer. Wells MW-2 and MW-5 were purged by bailing with a disposable bailer until temperature, pH, and conductivity measurements had stabilized. Well MW-4 is being sampled semi-annually and was not sampled during this event. Well sampling forms are attached.

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 transmitted to Curtis and Tompkins, Ltd., a State of California Department of Health Services certified analytical laboratory. The testing program for this event included analyses for total extractable hydrocarbons (TEH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and oil and grease. The results of all analytical testing events are presented in Table 1.

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Analytical test reports and Chain-of-Custody forms are attached.

Conclusions and Recommendations

A. Groundwater Flow Direction and Gradient

Groundwater level data indicates that groundwater currently flows in a north-northwest direction at a gradient of about 1 percent. Groundwater elevation data is summarized in Table 2.

B. Former Fuel Oil Tank Area

Petroleum hydrocarbons were not detected during this event in the groundwater at well MW-1, near the previous fuel oil tank. Low concentrations of TEH have been detected during previous events. However, it does not appear that groundwater has been significantly impacted by previous tank releases.

C. Former Waste Oil Tank Area

Extractable hydrocarbons reported as diesel were detected in the groundwater samples obtained from wells MW-3 and MW-5, near the former waste oil tank area. However, the analytical laboratory has indicated that the sample chromatograms more closely resemble a hydraulic oil standard rather than a diesel standard.

D. Former Gasoline Tank Area

A 550 gallon fiberglass storage tank used to store gasoline was removed from the site in 1991. The dispenser, which was situated directly over the top of the tank, was also removed. No visible signs of deterioration of the tank nor piping system were observed.

TVH as gasoline and BTXE were not detected in the soil samples obtained following tank removal. Water, which accumulated in the excavation, did contain levels of TVH as gasoline and BTXE. The excavation was purged of water once and the water was manifested to the Alviso Independent Oil Treatment facility.

A monitoring well, MW-2, was subsequently installed near the tank area to evaluate groundwater quality. TVH as gasoline and BTXE were not detected in the soil sample analyzed from the well boring. Groundwater monitoring has been performed for 6 consecutive quarters and TVH as gasoline and BTXE have never been detected in the well.

Very low concentrations of extractable hydrocarbons reported as diesel were detected in a groundwater sample obtained from MW-2.

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Petroleum hydrocarbons were previously undetected in well MW-2. We judge that this result is not associated with a release from the former gasoline tank.

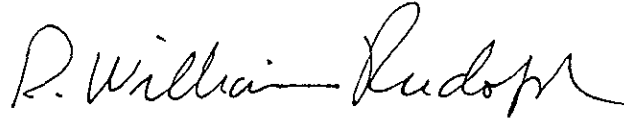
Based on the soil and groundwater data generated to date, we recommend that the gasoline tank area be considered for closure by the ACHCSA. A summary of analytical test data for samples obtained from the former gasoline tank area are presented in Tables 1 and 3.

E. Future Monitoring

In accordance with the monitoring schedule, the next monitoring event will occur in August 1994. During this event, we propose to obtain water level readings from all the wells and samples from wells MW-1, MW-3, MW-4 and MW-5. The groundwater samples will be analyzed for total extractable hydrocarbons, total oil and grease, and BTXE. If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.



R. William Rudolph
Geotechnical Engineer 741 (expires 12/31/96)

MFW:JNA:RWR:jmw

2 copies submitted

Attachments: Table 1 - Contaminant Concentrations in Groundwater
Table 2 - Groundwater Elevations
Table 3 - Contaminant Concentrations in Soil Near
the Former Gasoline Tank Area
Plate 1 - Site Plan
Plate 2 - Study Area Plan
Analytical Test Report
Chain-of-Custody Record
Well Sampling Forms

cc: Ms. Juliet Shin
Alameda County Health Care Services Agency
Hazardous Materials Division
80 Swan Way, Room #200
Oakland, California 94621

Table 1.
Contaminant Concentrations in Groundwater

Sampling Date	TVH (ug/l)	TEH		TOG (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethyl-Benzene (ug/l)	Total Xylenes (ug/l)	EPA 8010 Chemicals	
		Kerosene Range (ug/l)	Diesel Range (ug/l)							
<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	--
MW-4	01/26/94	--	<50	<50	<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	--
<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	--
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	--

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 hydraulic oil.

Table 2.
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
MW-2	11.07	02/24/92	4.45	6.62
		03/09/92	3.70	7.37
		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		
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
		08/27/92	6.75	5.90
		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		
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

Table 2.
Groundwater Elevations
(continued)

<u>Well</u>	<u>TOC Elevation</u>	<u>Date</u>	<u>Groundwater Depth (feet)</u>	<u>Groundwater Elevation (feet)</u>
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

TOC = Top of Casing

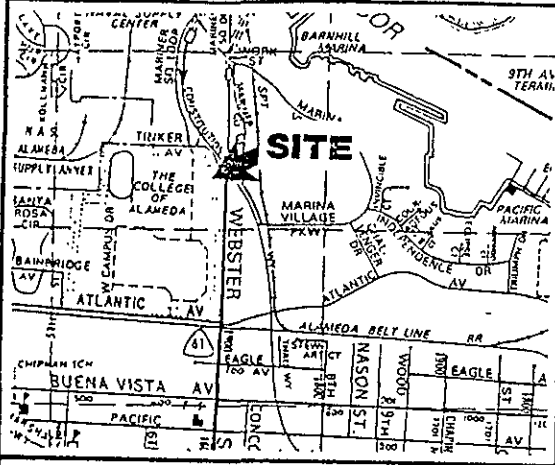
Groundwater depth measured below TOC

TOC elevation surveyed relative to mean sea level

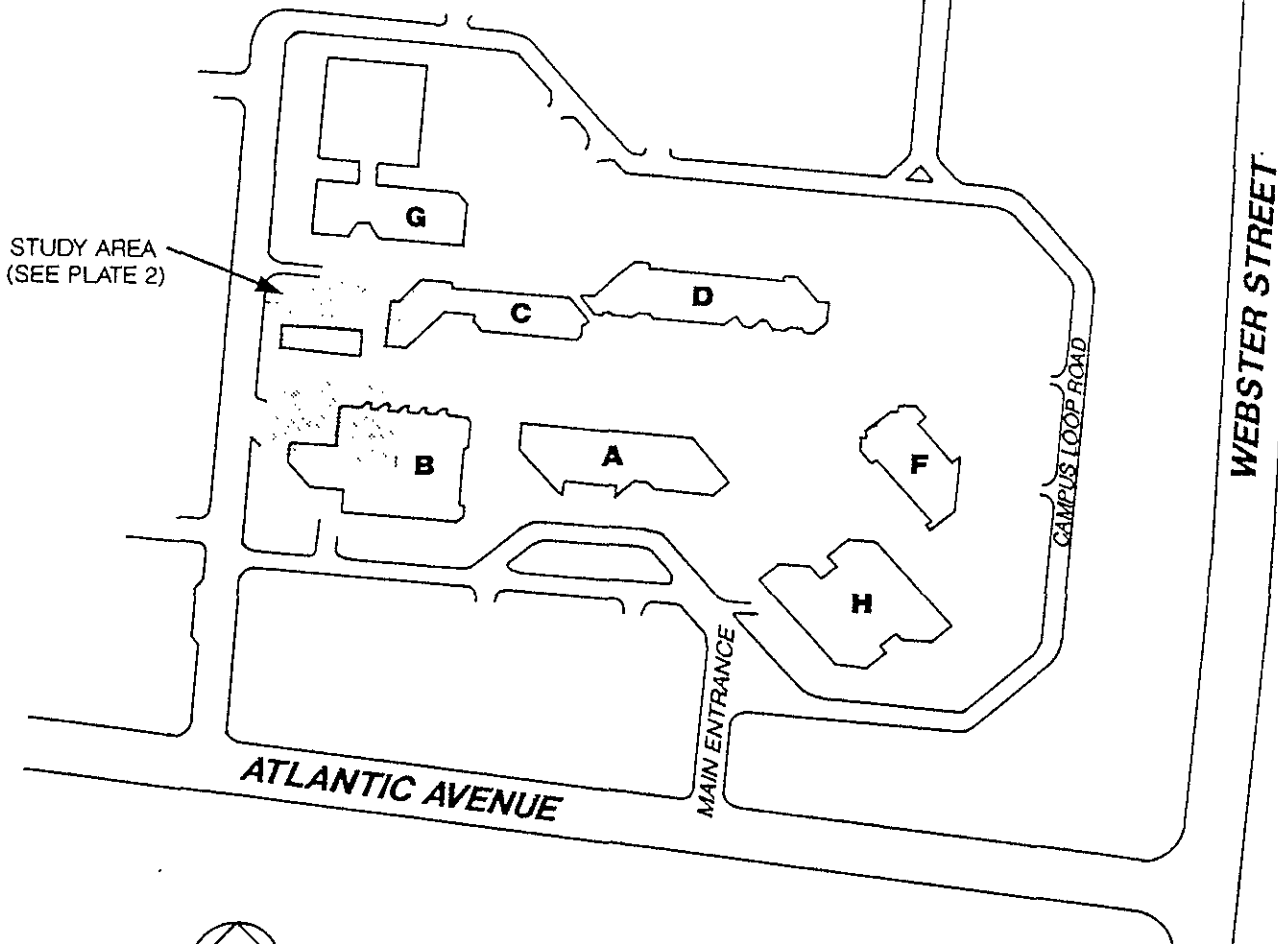
Table 3.
Contaminant Concentrations In Soil
Near the Former Gasoline Tank Area

<u>Sample</u>	<u>Date</u>	<u>TVH (mg/kg)</u>	<u>Benzene (ug/kg)</u>	<u>Ethyl- Toluene (ug/kg)</u>	<u>Total Benzene (ug/kg)</u>	<u>Xylenes (ug/kg)</u>	<u>Lead (mg/kg)</u>
A1-1 @ 2'	August 1991	<1.0	<5.0	<5.0	<5.0	<5.0	<3.0
A1-2 @ 5'	August 1991	<1.0	<5.0	<5.0	<5.0	<5.0	15
MW 2 @ 5'	February 1992	<1.0	<5.0	<5.0	<5.0	<5.0	--

TVH = Total volatile hydrocarbons, as gasoline, EPA Method 5030/8015 modified
mg/kg = Milligrams per kilogram or parts per million (ppm)
ug/kg = Micrograms per kilogram or parts per billion (ppb)
-- = Test not requested
<1.0 = Less than detection limit shown



VICINITY MAP



APPROXIMATE SCALE (feet)



SITE PLAN

Subsurface Consultants

COLLEGE OF ALAMEDA - ALAMEDA, CA




JOB NUMBER
469.006

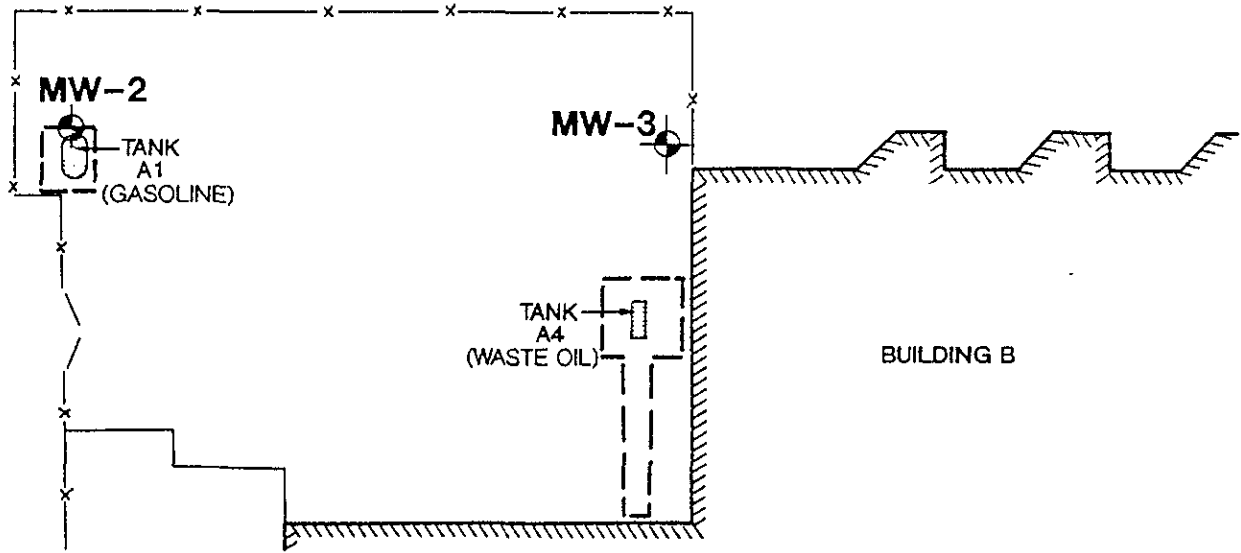
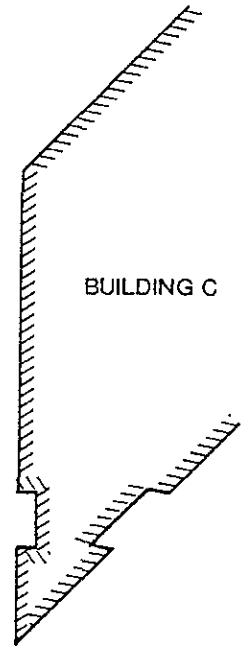
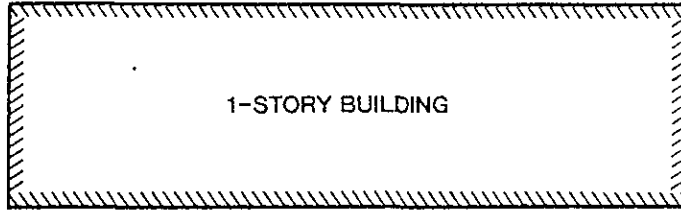
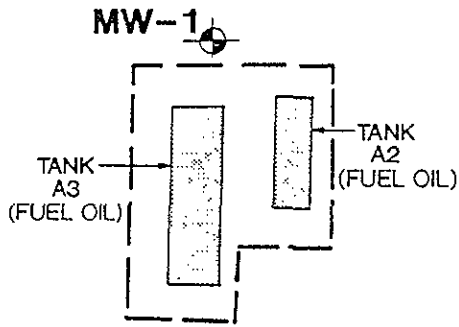
DATE
3/12/92

APPROVED
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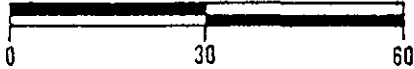
PLATE

1

 MONITORING WELL
 LIMITS OF PREVIOUS EXCAVATION
 FORMER TANK LOCATION
 REFERENCE ELEVATION: TOP OF CURB AT FIRE HYDRANT, ASSUMED TO BE 100 FEET



APPROXIMATE SCALE (feet)



STUDY AREA PLAN

Subsurface Consultants

COLLEGE OF ALAMEDA - ALAMEDA, CA			PLATE
JOB NUMBER	DATE	APPROVED	2
469.006	3/12/92	MW	

WELL SAMPLING FORM

Project Name: College of Minnesota Well Number: MW 1
 Job No.: 469.009 Well Casing Diameter: 2 inch
 Sampled By: COLE Date: 5/3/94
 TOC Elevation: _____ Weather: Clear

Depth to Casing Bottom (below TOC) _____ feet
 Depth to Groundwater (below TOC) 5.03 feet
 Feet of Water in Well _____ feet
 Depth to Groundwater When 80% Recovered _____ feet
 Casing Volume (feet of water x Casing DIA ² x 0.0408) _____ gallons
 Depth Measurement Method Tape & Paste Electronic Sounder / Other _____
 Free Product _____
 Purge Method Teflon bailer

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>0</u>	<u>6.99</u>	<u>19.6</u>	<u>500</u>	_____	_____
<u>2</u>	<u>7.10</u>	<u>19.4</u>	<u>500</u>	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Total Gallons Purged 2 1/2 gallons
 Depth to Groundwater Before Sampling (below TOC) _____ feet
 Sampling Method Teflon Bailer
 Containers Used 3 40 ml 2 liter _____ pint
5.4

Subsurface Consultants	JOB NUMBER		DATE	APPROVED	PLATE

WELL SAMPLING FORM

Project Name: College of Florida Well Number: MW 2
 Job No.: 469.009 Well Casing Diameter: 2 inch
 Sampled By: COFDC Date: 5/11/94
 TOC Elevation: _____ Weather: Clear

Depth to Casing Bottom (below TOC) _____ feet
 Depth to Groundwater (below TOC) 4.04 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 ‰	Comments
<u>0</u>	<u>7.54</u>	<u>19.4</u>	<u>4500</u>	_____	_____
<u>1</u>	<u>7.52</u>	<u>19.2</u>	<u>4500</u>	_____	_____
<u>2</u>	<u>7.53</u>	<u>19.1</u>	<u>4500</u>	_____	_____
<u>3</u>	<u>7.54</u>	<u>19.1</u>	<u>4500</u>	_____	_____
<u>4</u>	<u>7.52</u>	<u>19.1</u>	<u>4500</u>	_____	_____

Total Gallons Purged 5 gallons
 Depth to Groundwater Before Sampling (below TOC) _____ feet
 Sampling Method Teflon Driker
 Containers Used 3 40 ml 2 liter _____ pint

Subsurface Consultants	JOB NUMBER		DATE	APPROVED	PLATE

WELL SAMPLING FORM

Project Name: Collected Above Well-Number: MW 3
 Job No.: 469-209 Well Casing Diameter: 2 inch
 Sampled By: CDW Date: 5/3/94
 TOC Elevation: _____ Weather: Clear

Depth to Casing Bottom (below TOC) _____ feet
 Depth to Groundwater (below TOC) 7.02 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 1 Tape & Paste 1 Electronic Sounder Other
 Free Product _____
 Purge Method Tethered Bail

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>0</u>	<u>7.02</u>	<u>19.1</u>	<u>900-1000</u>		
<u>2</u>	<u>7.11</u>	<u>19.4</u>	<u>900-1000</u>		
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

-sampled 3.5

Subsurface Consultants

JOB NUMBER		DATE	APPROVED

PLATE

WELL SAMPLING FORM

Project Name: College of Florida Well Number: MW 5
 Job No.: 469.009 Well Casing Diameter: 2 inch
 Sampled By: CD Lee Date: 5/4/94
 TOC Elevation: _____ Weather: _____

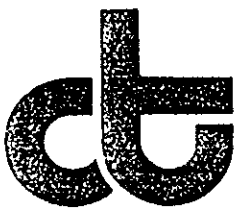
Depth to Casing Bottom (below TOC) _____ feet
 Depth to Groundwater (below TOC) 4.50 feet
 Feet of Water in Well _____ feet
 Depth to Groundwater When 80% Recovered _____ feet
 Casing Volume (feet of water x Casing DIA ² x 0.0408) _____ gallons
 Depth Measurement Method Tape & Paste Electronic Sounder / Other _____
 Free Product _____
 Purge Method Talon Miller

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>0</u>	<u>7.40</u>	<u>19.8</u>	<u>4500</u>	_____	_____
<u>1</u>	<u>7.39</u>	<u>19.7</u>	<u>4500</u>	_____	_____
<u>2</u>	<u>7.41</u>	<u>19.8</u>	<u>4500</u>	_____	_____
<u>3</u>	<u>7.40</u>	<u>20.0</u>	<u>4500</u>	_____	_____
<u>4</u>	<u>7.43</u>	<u>19.9</u>	<u>4500</u>	_____	_____

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

Subsurface Consultants				PLATE
	JOB NUMBER	DATE	APPROVED	



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: 16-MAY-94
Lab Job Number: 115517
Project ID: 469.009
Location: College of Alameda

Reviewed by:

Teresa K. Morrison

Reviewed by:

May Plessas

This package may be reproduced only in its entirety.

LABORATORY NUMBER: 115517
 CLIENT: SUBSURFACE CONSULTANTS
 PROJECT ID: 469.009
 LOCATION: COLLEGE OF ALAMEDA

DATE SAMPLED: 05/04,05/94
 DATE RECEIVED: 05/05/94
 DATE ANALYZED: 05/11,12/94
 DATE REPORTED: 05/16/94

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)
115517-1	MW-1	ND	ND	ND	ND	0.5
115517-2	MW-2	ND	ND	ND	ND	0.5
115517-3	MW-3	ND	ND	ND	ND	0.5
115517-4	MW-5	ND	ND	ND	ND	0.5

ND = Not detected at or above reporting limit.

Reporting Limit applies to all analytes.

QA/QC SUMMARY

```

=====
RPD, %                                     <1
RECOVERY, %                               100
=====
  
```



LABORATORY NUMBER: 115517
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 469.009
LOCATION: COLLEGE OF ALAMEDA

DATE SAMPLED: 05/04,05/94
DATE RECEIVED: 05/05/94
DATE EXTRACTED: 05/09/94
DATE ANALYZED: 05/10/94
DATE REPORTED: 05/16/94

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

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
115517-1	MW-1	ND	ND	50
115517-2	MW-2	**	50 +	50
115517-3	MW-3	ND	140 +	50
115517-4	MW-5	**	3,500 +	50

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

** Kerosene range not reported due to overlap of hydrocarbon ranges.
+ Sample chromatogram does not resemble diesel standard.

QA/QC SUMMARY:

RPD, %	4
RECOVERY, %	55

Client: Subsurface Consultants

Laboratory Login Number: 115517

 Project Name: College of Alameda
 Project Number: 469.009

Report Date: 16 May 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric)

METHOD: SMWW 17:5520BF

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
115517-001	MW-1	Water	04-MAY-94	05-MAY-94	10-MAY-94	ND	mg/L	5	TR	14137
115517-002	MW-2	Water	05-MAY-94	05-MAY-94	10-MAY-94	ND	mg/L	5	TR	14137
115517-003	MW-3	Water	05-MAY-94	05-MAY-94	10-MAY-94	ND	mg/L	5	TR	14137
115517-004	MW-5	Water	05-MAY-94	05-MAY-94	10-MAY-94	ND	mg/L	5	TR	14137

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



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: 115517
Report Date: 16 May 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric)

QC Batch Number: 14137

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	10-MAY-94

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	86%	SMWW 17:5520BF	10-MAY-94
BSD	85%	SMWW 17:5520BF	10-MAY-94

		Control Limits
Average Spike Recovery	85%	80% - 120%
Relative Percent Difference	1.5%	< 20%

CHAIN OF CUSTODY FORM

PROJECT NAME: College of Alameda
 JOB NUMBER: 469.009 LAB: Curtis & Tompkins
 PROJECT CONTACT: Marianne Watada TURNAROUND: normal
 SAMPLED BY: COBee REQUESTED BY: M. Watada

ANALYSIS REQUESTED											

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX				CONTAINERS				METHOD PRESERVED					SAMPLING DATE				NOTES		
		WATER	SOIL	WASTE	AIR	30 VOA	20 LITER	PINT	TUBE	HCL	H ₂ SO ₄	HNO ₃	ICE	NONE	MONTH	DAY	YEAR	TIME			
1	MW-1	X				30	20			X	X		X		05	24	94		X	X	X
2	MW-2	X				30	20			X	X		X		05	05	94		X	X	X
3	MW-3	X				30	20			X	X		X		05	05	94		X	X	X
4	MW-5	X				30	20			X	X		X		05	05	94		X	X	X

CHAIN OF CUSTODY RECORD			
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
<u>[Signature]</u>	<u>5/5/94 2:00pm</u>	<u>[Signature]</u>	<u>5/5/94 1400</u>

COMMENTS & NOTES:

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