

520-535 = 0.4

ENVIRONMENTAL  
SECTION  
AUG 8 PM 1:50

The A.P.A. Fund, Ltd.  
1904 Franklin Street, Suite 501  
Oakland, Ca. 94612

July 27, 1995

Ms. Eva Chu  
Alameda County Health Services Agency  
Department of Environmental Health  
UST Local Oversight Group  
80 Swan Way, Room 200  
Oakland, Ca. 94621

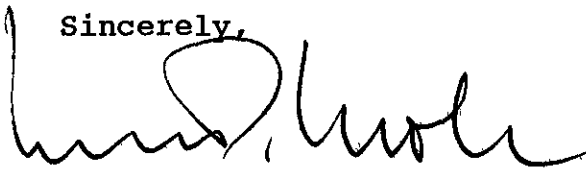
- ① Need QMR 60 days after field wk
- ② If P2 ~~sets~~ recharges slowly, do not purge before sampling.
- ③ Need CAP.

RE: 2801 MacArthur Blvd., Oakland, Ca.  
STID 23

Dear Ms. Chu:

Enclosed is the quarterly groundwater monitoring report for the above referenced site. The report presents the results from ground water sampling conducted in April 1995.

Please contact Aniko Molnar at (714) 546-0484 if you have any questions.

Sincerely,  


Nicholas D. Molnar  
General Partner  
A.P.A. Fund, Ltd.

① Possible SVE

Enclosure

cc: Rich Hiett, RWQCB  
Raymond W. Yu (w/o enclosure)

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

June 28, 1995  
SCI 838.002

APA Fund Ltd.  
c/o Mr. Nicholas Molnar  
1904 Franklin Street, Suite 501  
Oakland, California 94612

**Quarterly Groundwater Monitoring  
Sampling Event - April 1995  
2801 MacArthur Boulevard  
Oakland, California**

Dear Mr. Molnar:

This letter presents quarterly groundwater monitoring results for the referenced site. Monitoring services were provided by Subsurface Consultants, Inc. (SCI) on behalf of the A.P.A. Fund Limited. Groundwater monitoring has been performed in accordance with the workplan by Streamborn dated January 31, 1992. The monitoring was required by the Alameda County Health Care Services Agency (ACHCSA), due to an underground gasoline tank release. The location of the site is shown on Plate 1.

### Groundwater Sampling

On April 26, 1995, the groundwater monitoring event was performed. For this event wells M2 thru M6 and piezometer P2 were purged and sampled. The groundwater monitoring event consisted of (1) measuring groundwater levels in all the wells & piezometers using an electric well sounder, (2) checking for free product in the wells, (3) purging water from each well to be sampled until pH, conductivity and temperature had stabilized (approximately 3 well volumes), and (4) after the wells had recovered to at least 50 percent of their initial level, sampling the wells with new disposable bailers. Piezometer P2 recharges very slowly, hence it was purged dry and allowed to recharge for 4 hours, purged dry again and sampled when the well had recharged sufficiently to submerge the sampler. The samples were retained in 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. Purge water is stored on-site in 55-gallon steel drums. The groundwater level data generated to date are presented in Table 1.

■ Subsurface Consultants, Inc.

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

APA Fund Ltd.  
c/o Mr. Nicholas Molnar  
June 28, 1995  
SCI 838.002  
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### **Analytical Testing**

Analytical testing was performed by Curtis & Tompkins, Ltd., 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:

1. Total volatile hydrocarbons, as gasoline (TVH-gas), sample preparation and analysis using EPA Methods 5030 (purge and trap) and 8015 modified (gas chromatograph coupled to a flame ionization detector), and
2. Benzene, toluene, xylenes and ethylbenzene (BTXE) sample preparation and analysis using EPA Methods 5030 and 8020 (gas chromatograph coupled to a photoionization detector).

A summary of the current and previous analytical test results are presented in Table 2. Well sampling forms, analytical test reports, and Chain-of-Custody documents are attached. All sampling events prior to May 17, 1993 were conducted by Streamborn, the previous environmental consultant.

### **Conclusions**

The groundwater level data indicates that the regional groundwater flow direction is toward the south at a gradient of approximately 6 to 9 percent. This groundwater flow direction and gradient generally remain consistent with previous measurements.

In general, the analytical results indicate that elevated concentrations of gasoline and BTXE remain in groundwater. The highest concentrations of gasoline/BTXE have been detected in piezometer P2 and well M2. Gasoline was not detected at concentrations above laboratory reporting limits in wells M3 or M5. No free product was measured in any of the wells. However, a sheen was observed in piezometer P2 and well M2 and a petroleum hydrocarbon odor was observed in piezometer P2 and wells M2 and M4.

In accordance with our monitoring plan, the next monitoring event is scheduled for July 1995. If you have any questions, please call.

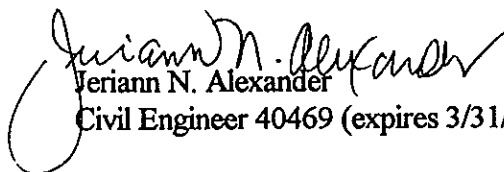
APA Fund Ltd.  
c/o Mr. Nicholas Molnar  
June 28, 1995  
SCI 838.002  
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Yours very truly,

Subsurface Consultants, Inc.



Marianne F. Watada  
Project Engineer



Jeriann N. Alexander  
Civil Engineer 40469 (expires 3/31/99)

MFW:JNA:sld

Attachments:      Table 1 - Groundwater Elevation Data  
                         Table 2 - Hydrocarbon Concentrations in Groundwater  
                         Plate 1 - Site Plan  
                         Well Sampling Forms  
                         Analytical Test Reports  
                         Chain-of-Custody Records

4 copies submitted

cc:      Ms. Aniko Molnar  
            Environmental Consultant  
            600 Anton Boulevard, Suite 1250  
            Costa Mesa, California 92626

**Table 2**  
**Hydrocarbon Concentrations in Groundwater**

<u>Sample Location</u>	<u>Sample Date</u>	<u>TVH (ug/l)</u>	<u>Benzene (ug/l)</u>	<u>Toluene (ug/l)</u>	<u>Ethylbenzene (ug/l)</u>	<u>Xylenes (ug/l)</u>
P-1	1/16/92	6,700	500	4.4	80	40
	3/9/93	5,600	1,100	29	63	120
P-2	11/6/90	33,000	4,700	2,100	380	630
	1/16/92	99,000	6,500	12,000	2,000	16,000
	3/9/93	70,000	5,900	11,000	2,100	12,000
	5/17/93	87,000	6,600	13,000	2,200	13,000
	8/17/93	80,000	5,800	12,000	2,000	12,000
	12/13/93	100,000	5,600	12,000	2,200	14,000
	3/7/94	77,000	5,100	11,000	2,000	12,000
	8/23/94	70,000	3,800	8,700	1,500	9,900
	4/27/95	44,000	3,600	8,500	1,500	9,300
P-3	8/17/93	900	180	65	10	93
M-2	5/7/91	16,000	1,300	950	170	890
	1/16/92	22,000	960	570	370	1,800
	3/9/93	27,000	1,100	970	490	1,400
	5/17/93	17,000	1,200	770	480	1,300
	8/17/93	20,000	1,700	910	540	1,400
	12/13/93	51,000	2,200	1,400	700	2,600
	3/7/94	28,000	1,400	900	640	1,800
	8/23/94	21,000	1,600	540	520	1,100
	4/26/95	14,000	1,200	510	490	870
M-3	5/17/93	<50	<0.5	<0.5	<0.5	<0.5
	8/17/93	<50	<0.5	<0.5	<0.5	<0.5
	12/13/93	<50	<0.5	<0.5	<0.5	<0.5
	3/7/94	<50	<0.5	<0.5	<0.5	<0.5
	8/23/94	<50	<0.5	<0.5	<0.5	<0.5
	4/27/95	<50	<0.5	<0.5	<0.5	<0.5
M-4	5/17/93	7,500	1,200	230	11	350
	8/17/93	13,000	3,000	330	130	700
	12/13/93	11,000	2,700	190	90	360

**Table 2**  
**Hydrocarbon Concentrations in Groundwater**

<u>Sample Location</u>	<u>Sample Date</u>	<u>TVH (ug/l)</u>	<u>Benzene (ug/l)</u>	<u>Toluene (ug/l)</u>	<u>Ethyl-benzene (ug/l)</u>	<u>Xylenes (ug/l)</u>
	3/7/94	3,800	980	33	49	140
	8/23/94	19,000	5,800	200	460	630
	4/27/95	2,300	510	40	69	120
M-5	8/23/94	<50	<0.5	<0.5	<0.5	<0.5
	4/27/95	<50	<0.5	<0.5	<0.5	<0.5
M-6	10/11/94	3,600	340	27	65	240
	4/26/95	150	9.3	<0.5	5.6	1.7

TVH = Total volatile hydrocarbons, as gasoline

ug/l = Micrograms per liter = parts per billion

<50 = Analyte not present at a concentration above the stated detection limit.

**Table 1**  
**Groundwater Elevation Data**

<u>Well</u>	<u>TOC<sup>1</sup> Elevation (feet)</u>	<u>Date</u>	<u>Groundwater Depth (feet)</u>	<u>Groundwater Elevation (feet)</u>
M1	1000	10/24/90	36.1	963.9
		10/25/90	36.1	963.9
		11/2/90	36.4	963.6
		11/6/90	36.8	963.2
		11/16/90	36.8	963.2
		11/23/90	36.9	963.1
		11/28/90	37.0	963.0
		12/5/90	37.2	963.0
		3/18/91	35.8	964.2
		3/29/91	32.4	967.6
		4/3/91	31.9	968.1
		4/9/91	31.6	968.4
		4/16/91	31.2	968.8
		1/23/92	35.5	964.5
		3/9/93	29.1	970.9
		6/1/93	27.5	972.9
		12/13/93	33.9	966.1
		3/7/94	32.3	967.7
		8/23/94	32.3	967.7
		10/11/94	34.1	965.9
4/26/95	24.4	975.6		
M2	999.6	4/30/91	31.1	968.5
		5/7/91	31.3	968.3
		1/16/92	35.1	964.5
		3/9/93	33.6	966.0
		5/17/93	27.2	972.4
		6/1/93	27.6	972.0
		8/17/93	30.4	969.2
		12/13/93	34.0	965.6
		3/7/94	30.1	969.5
		8/23/94	32.3	967.3
		10/11/94	34.2	965.4
		4/26/95	24.4	975.2

**Table 1  
Groundwater Elevation Data**

<u>Well</u>	<u>TOC<sup>1</sup> Elevation (feet)</u>	<u>Date</u>	<u>Groundwater Depth (feet)</u>	<u>Groundwater Elevation (feet)</u>
M3	992.8	5/17/93	22.2	970.6
		6/1/93	23.3	969.5
		8/17/93	25.0	967.8
		12/13/93	25.8	967.0
		3/7/94	23.1	969.7
		8/23/94	25.8	967.0
		10/11/94	27.4	965.4
		4/26/95	19.6	973.2
M4	999.6	5/17/93	33.8	965.8
		6/1/93	32.5	965.7
		12/13/93	36.8	962.8
		3/7/94	33.0	966.6
		8/23/94	35.4	964.2
		10/11/94	37.1	962.5
		4/26/95	29.8	969.8
M5	992.9	8/23/94	31.8	961.1
		10/11/94	33.6	959.3
		4/26/95	20.5	972.4
M6	997.7	8/23/94	41.2	956.6
		10/11/94	38.2	959.5
		4/26/95	27.8	969.9
P1	999.6	10/24/90	37.9	961.7
		10/25/90	38.0	961.6
		11/2/90	38.4	961.2
		11/6/90	38.7	960.9
		11/16/90	38.3	961.3
		11/23/90	38.1	961.5
		11/28/90	38.3	961.3
		12/5/90	38.2	961.4
		3/18/91	37.8	961.8
3/29/91	36.9	962.7		



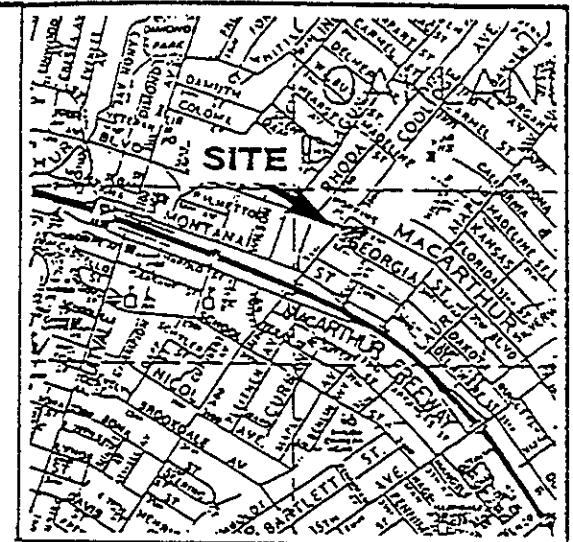
**Table 1**  
**Groundwater Elevation Data**

<u>Well</u>	<u>TOC<sup>1</sup> Elevation (feet)</u>	<u>Date</u>	<u>Groundwater Depth (feet)</u>	<u>Groundwater Elevation (feet)</u>
		4/3/91	36.8	962.8
		4/9/91	36.9	962.7
		4/16/91	36.7	962.9
		4/18/91	36.8	962.8
		4/30/91	36.3	963.3
		5/7/91	36.2	963.4
		1/16/92	36.6	963.0
		3/9/93	32.8	966.8
		6/1/93	30.0	969.6
		12/13/93	33.7	965.9
		3/7/94	32.6	967.0
		8/23/94	32.7	966.9
		10/11/94	33.5	966.1
		4/26/95	27.6	972.0
P2	997.8	10/24/90	41.1	956.7
		10/25/90	40.6	957.2
		11/2/90	38.4	959.4
		11/6/90	37.0	960.8
		11/16/90	37.4	960.4
		11/23/90	35.9	961.9
		11/28/90	35.4	962.4
		2/5/90	35.03	962.83
		3/18/91	31.43	966.43
		3/29/91	28.23	969.63
		4/3/91	26.83	971.03
		4/9/91	26.53	971.33
		4/16/91	26.53	971.33
		4/18/91	26.53	971.33
		4/30/91	26.73	971.13
		5/7/91	27.03	970.83
		1/16/92	33.73	964.13
		3/9/93	23.63	974.2
		5/17/93	23.73	974.1
		6/1/93	24.43	973.4

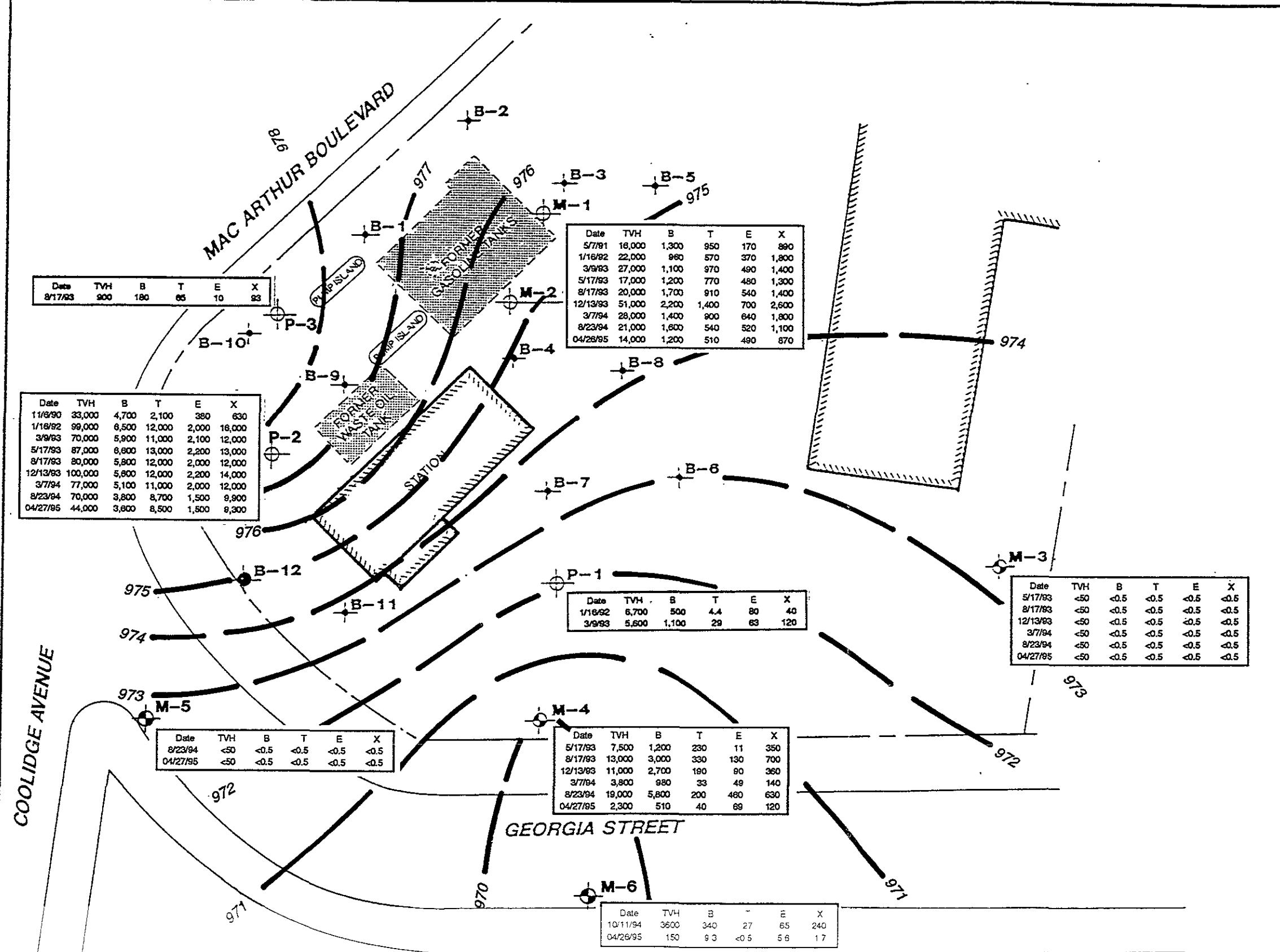
**Table 1**  
**Groundwater Elevation Data**

<u>Well</u>	<u>TOC<sup>1</sup> Elevation (feet)</u>	<u>Date</u>	<u>Groundwater Depth (feet)</u>	<u>Groundwater Elevation (feet)</u>
		8/17/93	28.33	969.5
		12/13/93	31.03	966.8
		3/7/94	25.43	972.4
		8/23/94	30.3	967.5
		10/11/94	32.3	965.5
		4/26/95	19.9	977.9
P3	999.1	3/29/91	24.7	974.4
		4/3/91	25.1	974
		4/9/91	25.9	973.2
		4/16/91	26.2	972.9
		4/18/91	26.2	972.9
		4/30/91	26.8	972.3
		5/7/91	27.4	971.7
		1/23/92	32.5	966.6
		3/9/93	24.8	974.3
		6/4/93	23.9	975.2
		8/17/93	28.5	970.6
		12/13/93	29.3	969.8
		3/7/94	25.0	974.1
		8/23/94	30.1	969
		10/11/94	32.0	967.1
		4/26/95	20.5	978.6

1 Elevations relative to site-specific datum. Temporary Bench Mark No. 1, top of concrete at west corner of northernmost pump island. Assumed elevation = 1,000.00 feet.



VICINITY MAP



- TEST BORING BY SCI
- MONITORING WELL BY SCI
- TEST BORING BY OTHERS
- MONITORING WELL BY OTHERS
- FORMER EXCAVATION
- PROPERTY BOUNDARY
- EXISTING BUILDING
- GROUNDWATER CONTOUR ELEVATIONS (FEET) (4/26/95)



SUMMARY OF TVH AND BTEX CONCENTRATIONS IN GROUNDWATER

Subsurface Consultants

2801 MAC ARTHUR BLVD - OAKLAND, CA

JOB NUMBER: 838.002      DATE: 11/7/94      APPROVED: *mw*

PLATE: **6**



## WELL SAMPLING FORM

Project Name: APA Fund Well Number: P-2  
 Job No.: 838.002 Well Casing Diameter: 2 inch  
 Sampled By: DWA Date: 4/27/95  
 TOC Elevation: \_\_\_\_\_ Weather: cloudy

Depth to Casing Bottom (below TOC) 42.50 feet  
 Depth to Groundwater (below TOC) 19.90 feet  
 Feet of Water in Well 22.60 feet  
 Depth to Groundwater When <sup>50</sup>~~90~~% Recovered 31.20 feet  
 Casing Volume (feet of water x Casing DIA<sup>2</sup> x 0.0408) 3.7 gallons  
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other \_\_\_\_\_  
 Free Product none  
 Purge Method disposable bailer

*recharge rate 1" per 2 min.*

### FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>3</u>	<u>11.13</u>	<u>20.0</u>	<u>750</u>	_____	<u>clear/strong odor/slow</u>
<u>6</u>	<u>10.34</u>	<u>20.0</u>	<u>700</u>	_____	<u>semi-clear</u>
<u>9</u>	<u>11.26</u>	<u>20.0</u>	<u>875</u>	_____	<u>murky</u>
<u>12</u>	<u>11.67</u>	<u>20.0</u>	<u>1400</u>	_____	<u>increasing turbidity</u>
<u>13</u>	<u>12.14</u>	<u>20.5</u>	<u>2825</u>	_____	<u>Dry @ 13 gallons</u> <u>purged dry twice</u>

Total Gallons Purged ~~72~~ gallons  
 Depth to Groundwater Before Sampling (below TOC) 40.00' feet  
 Sampling Method disposable bailer  
 Containers Used 3  
                                     40 ml                      liter                      pint

<h1 style="margin: 0;">Subsurface Consultants</h1>	JOB NUMBER	DATE	APPROVED	PLATE  

### WELL SAMPLING FORM

Project Name: APA Fund Well Number: M-2  
 Job No.: f 38.002 Well Casing Diameter: 2 inch  
 Sampled By: DWA Date: 4/26/95  
 TOC Elevation: \_\_\_\_\_ Weather: Sunny

Depth to Casing Bottom (below TOC) ~~44.50~~ 45.00 feet  
 Depth to Groundwater (below TOC) ~~24.35~~ 24.44 feet  
 Feet of Water in Well ~~20.75~~ 20.56 feet  
 Depth to Groundwater When ~~20~~<sup>50</sup> % Recovered 34.72 feet  
 Casing Volume (feet of water x Casing DIA<sup>2</sup> x 0.0408) 3.3 gallons  
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other  
 Free Product none  
 Purge Method disposable bailer

#### FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°C)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>2</u>	<u>6.79</u>	<u>22.5</u>	<u>1625</u>	_____	<u>clean/strong odor</u>
<u>4</u>	<u>6.77</u>	<u>22.0</u>	<u>1700</u>	_____	<u>slight turbidity + sheen</u>
<u>6</u>	<u>6.76</u>	<u>22.0</u>	<u>1775</u>	_____	<u>increasing turbidity</u>
<u>8</u>	<u>6.74</u>	<u>22.0</u>	<u>1775</u>	_____	<u>slightly murky</u>
<u>10</u>	<u>6.75</u>	<u>22.0</u>	<u>1725</u>	_____	<u>murky/strong odor</u>

Total Gallons Purged 10 gallons  
 Depth to Groundwater Before Sampling (below TOC) 34.70' feet  
 Sampling Method disposable bailer  
 Containers Used 3 \_\_\_\_\_  
                               40 ml                      liter                      pint

**Subsurface Consultants**

JOB NUMBER		DATE	APPROVED

PLATE

## WELL SAMPLING FORM

Project Name: APA Fund Well Number: M-3  
 Job No.: 838.002 Well Casing Diameter: 2 inch  
 Sampled By: DWA Date: 4/27/95  
 TOC Elevation: \_\_\_\_\_ Weather: cloudy

Depth to Casing Bottom (below TOC) 39.50 feet  
 Depth to Groundwater (below TOC) 19.62 feet  
 Feet of Water in Well 19.88 feet  
 Depth to Groundwater When ~~80~~<sup>50</sup>% Recovered 29.56 feet  
 Casing Volume (feet of water x Casing DIA<sup>2</sup> x 0.0408) 3.3 gallons  
 Depth Measurement Method Tape & Paste Electronic Sounder / Other  
 Free Product none  
 Purge Method disposable bailer

### FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>2</u>	<u>6.77</u>	<u>19.0</u>	<u>350</u>		<u>clear / no odor</u>
<u>4</u>	<u>6.76</u>	<u>18.5</u>	<u>355</u>		<u>murky</u>
<u>6</u>	<u>6.79</u>	<u>18.5</u>	<u>360</u>		
<u>8</u>	<u>6.74</u>	<u>18.5</u>	<u>360</u>		
<u>10</u>	<u>6.73</u>	<u>18.5</u>	<u>370</u>		

Total Gallons Purged 10 gallons  
 Depth to Groundwater Before Sampling (below TOC) 27.00' feet  
 Sampling Method disposable bailer  
 Containers Used 3  
                             40 ml                      liter                      pint

**Subsurface Consultants**

JOB NUMBER		DATE	APPROVED	PLATE
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WELL SAMPLING FORM

Project Name: APA Fund Well Number: M-4  
Job No.: 838.002 Well Casing Diameter: 2 inch  
Sampled By: DWA Date: 4/26/95  
TOC Elevation: \_\_\_\_\_ Weather: Sunny

Depth to Casing Bottom (below TOC) 45.00 feet  
Depth to Groundwater (below TOC) 29.76 feet  
Feet of Water in Well 15.24 feet  
Depth to Groundwater When <sup>50</sup>~~90~~% Recovered 37.38 feet  
Casing Volume (feet of water x Casing DIA <sup>2</sup> x 0.0408) 2.5 gallons  
Depth Measurement Method Tape & Paste / Electronic Sounder / Other \_\_\_\_\_  
Free Product none  
Purge Method disposable bailer

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>1</u>	<u>8.79</u>	<u>22.0</u>	<u>285</u>		<u>mucky/moderate odor</u>
<u>3</u>	<u>7.51</u>	<u>22.0</u>	<u>300</u>		<u>Decreasing turbidity</u>
<u>5</u>	<u>7.27</u>	<u>22.0</u>	<u>325</u>		<u>↓</u>
<u>7</u>	<u>7.19</u>	<u>22.0</u>	<u>370</u>		<u>clear</u>
<u>9</u>	<u>7.15</u>	<u>22.0</u>	<u>360</u>		

Total Gallons Purged ~~disposable bailer~~ 9 gallons  
Depth to Groundwater Before Sampling (below TOC) 37.30' @ 7:25 a.m. on 4/27/95 feet  
Sampling Method disposable bailer  
Containers Used 3 \_\_\_\_\_ liter \_\_\_\_\_ pint  
40 ml

Subsurface Consultants

JOB NUMBER	DATE	APPROVED	PLATE





## WELL SAMPLING FORM

Project Name: APA Fund Well Number: M-6  
 Job No.: 838.002 Well Casing Diameter: 2 inch  
 Sampled By: DWA Date: 4/26/95  
 TOC Elevation: \_\_\_\_\_ Weather: Sunny

Depth to Casing Bottom (below TOC) 46.50 feet  
 Depth to Groundwater (below TOC) 27.79 feet  
 Feet of Water in Well 18.71 feet  
 Depth to Groundwater When <sup>50</sup>~~80~~% Recovered 37.15 feet  
 Casing Volume (feet of water x Casing DIA<sup>2</sup> x 0.0408) 3.1 gallons  
 Depth Measurement Method Tape & Paste / Electronic Sounder / Other  
 Free Product none  
 Purge Method disposable bailer

### FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
<u>0</u>	<u>7.68</u>	<u>20.0</u>	<u>400</u>		<u>clear/no odor</u>
<u>1</u>	<u>7.70</u>	<u>19.5</u>	<u>425</u>		<u>semi-clear</u>
<u>2</u>	<u>7.73</u>	<u>19.5</u>	<u>445</u>		<u>murky</u>
<u>3</u>	<u>7.</u>	<u>19.5</u>	<u>470</u>		

Total Gallons Purged 3.5 gallons  
 Depth to Groundwater Before Sampling (below TOC) 34.42 feet  
 Sampling Method disposable bailer  
 Containers Used 3  
                                     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 (415) 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: 10-MAY-95  
Lab Job Number: 120834  
Project ID: 838.002  
Location: A.P.A. Fund

Reviewed by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

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LABORATORY NUMBER: 120834  
CLIENT: SUBSURFACE CONSULTANTS  
PROJECT ID: 838.002  
LOCATION: A.P.A. FUND

DATE SAMPLED: 04/26,27/95  
DATE RECEIVED: 04/27/95  
DATE ANALYZED: 05/06,07/95  
DATE REPORTED: 05/11/95  
BATCH NO.: 20390

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions  
TVH by California DOHS Method/LUFT Manual October 1989  
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
120834-001	P-2	44,000	3,600	8,500	1,500	9,300
120834-002	M-2	14,000	1,200	510	490	870
120834-003	M-3	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
120834-005	M-5	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
120834-006	M-6	150	9.3	ND(0.5)	5.6	1.7
METHOD BLANK	N/A	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: MS/MSD of 120847-016

RPD, %	3
RECOVERY, %	96



LABORATORY NUMBER: 120834  
 CLIENT: SUBSURFACE CONSULTANTS  
 PROJECT ID: 838.002  
 LOCATION: A.P.A. FUND

DATE SAMPLED: 04/27/95  
 DATE RECEIVED: 04/27/95  
 DATE ANALYZED: 05/09/95  
 DATE REPORTED: 05/11/95  
 BATCH NO.: 20511

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions  
 TVH by California DOHS Method/LUFT Manual October 1989  
 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
120834-004	M-4	2,300	510	40	69	120
METHOD BLANK	N/A	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: MS/MSD of 120816-005

=====  
 RPD, % 8  
 RECOVERY, % 85  
 =====

